



MUSEO
INSTITUTO DE BOTANICA
"SPEGAZZINI"

BIBLIOTECA

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Fecha

SYLLOGE
FUNGORUM

OMNIUM HUCUSQUE COGNITORUM.

DIGESSIT

P. A. SACCARDO

Vol. III.

PATAVII

XV DECEMBRIS MDCCCLXXXIV

SUMPTIBUS AUCTORIS

TYPIS SEMINARII

SYLLOGE
SPHÆROPSIDEARUM

ET

MELANCONIEARUM

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TYPIS SEMINARIII

SPHÆROPSIDEÆ Lév. reform. *)

Sacc. Mich. I. 133 et II. p. 3.

Sphærospideæ, *Phyllostictæ* et *Cytisporaceæ* Fr. (excl. gen.). — *Sphærospideæ* et *Sphæronemeæ* Kx. — *Sphæronemeæ* Berk. — *Sphæronemeæ*, *Sporocadeæ*, *Phragmotrichaceæ*, *Sphæriaceæ* etc. Corda p. p. — *Perisporiaceæ*, *Thyreomycetes*, *Excipulinæ*, *Nemasporeæ*, *Sporocadeæ* etc. Bon. p. p. — *Excipuleæ*, *Pilidiæ*, *Actinothyriæ*, *Sphæronemeæ* etc. Payer p. p.

Fungi perithecio instructi, ascis carentes, sporulasque **) (*stylosporas* et *spermatia* auctorum) intra perithecium basidiis plus vel minus manifestis suffultas gerentes.

Fam. 1. Sphærioideæ Sacc.

Perithecia membranacea, carbonacea v. subcoriacea, atra (numquam carnosula, læticoloria) globosa, conica v. lenticularia, integra (h. e. non dimidiata), immersa v. superficialia.

Sect. 1. Hyalosporæ Sacc.

Sporulæ globosæ, ovoideæ v. suboblongæ, rectæ v. curvulæ (allantoideæ) continuæ, hyalinæ.

*) Rationes, quæ suadent fungos inferiores, nempe *Sphærospideos*, *Melanconieos* et *Hyphomycetes* in libro proprio pleneque pertractare, jam exposui in Mich. II. p. 2. omnesque fere mycologi in hac re nunc consentiunt. Horum consilio fretus improbum laborem aggredior, hoc saltem sperans quod, post editam Syllogen, numerus duplicatarum specierum, quo scientia obruitur, in posterum valde diminui possit.

**) Quum limes nullus certus sit inter *spermatium*, *stylosporam* v. *clinosporam* Sphærospidearum, nomen simplex et jamdudum, etsi subinde alio sensu, adhibitum *sporula* pro cohorte tota sine distinctione usurpavi. Hinc hujuscemodi Fungorum organa sic distinguenda puto:

Spora, asco carens, in fungis perfectis: Hymenomyceteis, Gasteromyceteis, Phalloideis, Myxomyceteis, Ustilagineis.

Sporidium, asco inclusum, in fungis perfectis: Ascomyceteis.

Sporula, asco carens, in fungis imperfectis perithecigeris: Sphærospideis.

Conidium, asco carens, in fungis imperfectis sine perithecio: Melanconieis et Hyphomyceteis.

Quoad Uredineas et Phycomyceteas, generationibus variis pollentes, varia quoque sporarum nomina jam usurpata sunt, quæ servanda.

Clavis analytica generum.

§ Simples (peritheciis discretis).

‡ Perithecia inermia, calva.

* Perithecia areolis plantarum decoloratis innata, h. e. maculicola.

Phyllosticta. Perithecia punctiformia, lenticularia, poro pertusa.

** Perithecia non maculicola.

×) Sporulæ solitariae (non concatenatae).

A) Sporulæ muticae.

a) Subiculum nullum.

α) Perithecia mutica v. papillata (non rostrata).

Phoma. Perithecia membranacea v. subcoriacea, papillata, subcutanea; basidia monospora, sæpe brevissima.

Aposphaeria. Perithecia *Phomæ*, sed superficialia, subcarbonacea, exquisitius papillata.

Dendrophoma. Perithecia calva *Phomæ*, sed basidia ramulosa v. denticulata, pleiospora.

Asteromella. Perithecia minuta in maculas asteromatoideas dendriticas dense disposita.

Piptostomum. Perithecia carbonacea, globosa, demum superne circumscissa; nucleo celluloso-lobato (Transit ad Compositas).

Crocicreas. Perithecia superficialia, turbinata, carnosio-cornea, floccoso-fibrosa; basidia ramosa.

Pyrenotrichum. Perithecia superficialia, vertice demum circumscissa; basidia exquisite circinata.

Sclerotiopsis. Perithecia immersa, astoma, subcarnosula, sclerotiformia; basidia filiformia, 1-spora; sporulæ utrinque e latere acutæ.

Plenodomus. Perithecia semiimmersa, irregulariter dehiscentia, tuberculosa, sclerotioidea, intus subcarnosula; sporulæ utrinque obtusæ; basidia brevissima.

Mycogala. Perithecia superficialia astoma obtusa, dein irregulariter lacerata; nucleo mox pulveraceo; sporulæ globulosæ.

β) Perithecia rostellata.

Sphaeronæma. Perithecia rostrata; sporulæ plerumque ad apicem rostri in globulum denique expulsa.

b) Subiculum præsens.

Chaetophoma. Perithecia *Phomæ*, sed subiculo fumagineo v. asterineo innata; sporulæ ovoideo-oblongæ.

Asteroma. Perithecia minuta, conferta, fibrillis sæpius radiantibus atris adnata vel imposita; sporulæ ovoideo-oblongæ. (In plurimis fructificatio ignota).

Ypsilonia. Perithecia minuta subiculo asteromatoideo fusco imposita; sporulæ elongatæ 3-radiatæ.

Cicinnobolus. Perithecia minima, elongata, versiformia, subiculo oidico (proprio?) innata; sporulæ ovoideæ cirrose expulsæ.

B) Sporæ ciliatæ.

Neottiospora. Sporulæ ovato-fusoideæ, apice penicillato-setosæ.

XX) Sporulæ concatenatæ.

Sirococcus. Perithecia subcarbonacea, erumpentia v. superficialia, ostiolo obsoleto; sporulæ in catenulas subsimplices digestæ.

Peckia. Perithecia *Sirococi* (spuria?); sporulæ catenulatæ, reticulatim connexæ v. mucò obvolutæ.

†† Perithecia aculeata v. setosa.

Muricularia. Perithecia aculeolis continuis simplicibus obsita; sporulæ oblongæ, sublobatæ.

Staurochæta. Perithecia aculeolis apice stellatis obsita; sporulæ ovoideæ.

Pyrenochæta. Perithecia erumpentia v. superficialia, setulis breviusculis variis ubique v. basi v. apice vestita; sporulæ oblongæ; basidia typice ramulosa. (Cfr. *Chætomella* inter *Phæosporas*).

Vermicularia. Perithecia setis longis erectis septatis vestita; sporulæ fusoidæ falcatae, raro rectæ, basidia typice simplicia.

§§ Compositæ v. cæspitosæ (peritheciis stromate adnatis v. immersis).

Dothiorella. Stroma basilare; perithecia botryose aggregata, erumpentia; sporulæ oblongæ.

Rabenhorstia. Stroma globoso-truncatum, intus locellatum; sporulæ ovoideo-oblongæ, stipitatæ.

Fuckelia. Stroma globoso-pulvinatum, substipitatum, intus in locellos angulosos pallidiores (*Tuberis* ad instar) ubique partitum.

Placosphæria. Stroma applanatum, effusum, piceum, intus plus minusve distincte plurilocellatum, pallidius.

Fusicoccum. Stroma valseum v. verruciforme, molliusculum, intus inæqualiter multiloculare; sporulæ fusoidæ v. bacillares proportione majusculæ.

Cytosporella. Stroma valseum v. verruciforme, molliusculum intus inæqualiter pluriloculare; sporulæ globosæ v. ovoideæ, continuæ, subhyalinæ.

Cytospora. Stroma valseum v. verruciforme, molliusculum, intus inæqualiter multiloculare; sporulæ allantoidæ.

Ceuthospora. Stroma conico-truncatum, carbonaceum, intus typice pluriloculare; sporulæ bacillares.

Index habituum

PHYLLOSTICTA Pers. in Fr. S. M. II. 257, Sacc. Mich. II. p. 4. (Etym. *phylon* folium et *stictos* punctatus). — Perithecia epidermide velata, lenticularia, tenuiter membranacea, poro sæpius amplo pertusa, punctiformia, areolas foliorum raro ramulorum decoloratas incolentia. Sporulæ exiguæ ovoideæ v. oblongæ, continuæ, hyalinæ v. chlorinæ; basidia minima v. nulla.

I. In plantis dicotyledoneis arboreis.

1. **Phyllosticta æsculina** Sacc. F. Gallici Ser. VI. n. 2261. — Maculis amphigenis arescendo ochraceis, variis; peritheciis punctifor-

mibus, vix $\frac{1}{10}$ mill. d., atris; sporulis ellipsoideis, hyalinis, $9 \approx 3$; basidiis obsolete.

Hab. in foliis adhuc vivis *Æsculi Hippocastani*, prope Rouen in Gallia (LETENDRE). — A *Ph. æsculicola* differt præcipue sporulis duplo majoribus.

2. **Phyllosticta Paviæ** Desm. 14 Not. 32, Kickx Fl. Flandr. I. 515. 2
— Maculis indeterminatis, rufo-fuligineis, late flavido-marginatis; peritheciis epiphyllis, exiguis, sparsis vel confertis, nigricantibus, convexis dein depressis; sporulis cylindræco-ellipticis, 2-guttatis 11-12 μ . longis.

Hab. in foliis Paviæ macrostachyæ, in Gallia et Belgio.

3. **Phyllosticta æsculicola** Sacc. Mich. I. p. 134. — Maculis vagis 3
irregularibus, arescendo candidis, fusco-cinctis, epiphyllis v. petioliculis; peritheciis punctiformibus, sparsis; sporulis tenuissimis, oblongis v. breve fusoideis, $4 \approx \frac{3}{4}$, hyalinis.

Hab. in foliis petiolisque *Æsculi Hippocastani*, in Italia boreali. — *Depazea æsculicola* Fr. sec. auct. est *Septoria*. Quid sit *Ascochyta Hippocastani* Lib. exs. n. 151, ignoro. *Phyllosticta Paviæ* Desm. omnino aliena est.

4. **Phyllosticta Laurocerasi** Sacc. et Speg. Mich. I. p. 153. — Maculis 4
obsolete v. subcircularibus candicantibus; peritheciis sæpe subconcentrice dispositis, punctiformibus, prominulis, olivaceo-fuscis; sporulis oblongo-cylindræcis, utrinque rotundatis, raro ad medium subconstrictis, 8-10 \approx 3-4, sæpe 2-guttulatis, hyalinis.

Hab. in foliis dejectis Pruni Laurocerasi, Treviso, Conegliano, Aquileja in Ital. bor.

5. **Phyllosticta cerasella** Speg. Fung. Arg. Pug. III. n. 94. — Ma- 5
culis nullis; peritheciis hypophyllis, minutis, 110-120, ostiolo impresso pertusis, membranaceis, contextu laxo parenchymatico, olivaceo; sporulis ellipticis v. elliptico-cylindræcis, medio non v. subconstrictis, rarius 1-septatis, granuloso-farctis v. guttulatis, 8-12 \approx 3-4, hyalinis.

Hab. ad folia dejecta putrescentia Pruni Cerasi, in hortis prope la Recoleta in Argentina.

6. **Phyllosticta serotina** Cooke Grev. XII. pag. 26. — Amphigena; 6
maculis orbicularibus, fuscis, linea obscuriore limitatis; peritheciis sparsis, punctiformibus minutis; sporulis elliptico-lanceolatis, hyalinis 12 \approx 3.

Hab. in foliis Cerasi serotinæ, in Carolina austr. (RAVENEL).

7. **Phyllosticta prunicola** (Opiz?) Sacc. Mich. I. p. 157, *Depazea pru-* 7

nicola Opiz? — Maculis subcircularibus epiphyllis, arescendo sordide brunneis v. ochraceis, margine subconcolore; peritheciis sparsis, punctiformibus, pertusis; sporulis ovoideis v. ellipsoideis, $5 \approx 3$, e hyalino olivaceis.

Hab. in pag. sup. foliorum *Pruni domesticæ*, *P. Cerasi* nec non *Piri Mali*, *Aquileja*, *Plezzo*, *Belluno*, in Italia bor. — Forma in *Malo* ad *Leptosphaeriam Pomonam* Sacc., tamquam spermogonium, pertinere videtur.

8. **Phyllosticta Mahaleb** Thüm. Contr. Mycol. Lusit. — Peritheciis 8 dense gregariis, epiphyllis, globuloso-punctiformibus, semiimmersis, nigris, parvulis, in macula orbiculari v. orbiculari-sinuosa, arescendo cinerescente, anguste et obscurius cincta; sporulis ovato-ellipsoideis, utrinque rotundatis, enucleatis, achrois v. pallidissime griseolis, $4-5 \approx 2-2,5$.

Hab. in foliis vivis *Pruni Mahaleb*, *Coimbra* in Lusitania, in horto botanico (MOLLER).

9. **Phyllosticta Mespili** Sacc. Mich. I. p. 159. — Maculis subcircularibus, arescendo ochraceis, rufo-cinctis; peritheciis sparsis, punctiformibus, lenticularibus, pertusis, laxe cellulosis, lutescentibus; sporulis oblongis, utrinque rotundatis, $4 \approx 3$, olivaceis.

Hab. in foliis *Mespili germanicæ*, *Selva* et *Cusignana* in Italia boreali.

10. **Phyllosticta Cydoniæ** (Desm.) Sacc., *Cheilaria Cydoniæ* Desm. 10 14 Not. p. 26. — Maculis amphigenis, brunneis, rotundatis vel irregularibus 3-5 mill. diam.; peritheciis epiphyllis, minutissimis, numerosis, innato-prominulis, nigris, rima («epidermica?») dehiscentibus; cirris albidis; sporulis minutis, cylindricis, rectis vel curvulis, 4-guttulatis, 10 μ . longis.

Hab. in foliis languescentibus *Cydoniæ*, in Gallia.

11. **Phyllosticta Eriobotryæ** Thüm. Contr. Fl. mic. Lit. n. 215, tab. I. 11 fig. 7. — Peritheciis epiphyllis, mediis, globosis, prominulis, gregariis, atris in maculis aridis, plus minusve orbiculatis, fusco-griseis, nigro-annulatis, demum corrosis; sporulis ellipsoideis, enucleatis, dilute fusco-griseis, $4-6 \approx 3$.

Hab. in foliis vivis *Eriobotryæ japonicæ*, *Gorizia* in Ital. bor. — *Ph. Photiniæ* Thüm. proxima sed diversa.

12. **Phyllosticta chænomelina** Thüm. Contr. Fung. Litor. n. 216, 12 tab. I. fig. 4. — Peritheciis mediis, epiphyllis vel raro etiam amphigenis, sparsis, subprominulis, conicis, ostiolatis, atris in macula irregulari, albescente, subtus fusca, exarida; sporulis ovatis,

simplicibus, utrinque subrotundatis, pallidissime cinereis, diaphanis, $5 \approx 2$.

Hab. ad *Chænomeles* (Pyri) japonicæ folia viva, Gorizia in Italia boreali.

13. **Phyllosticta? Cratægi** (Cooke) Sacc., *Cheilaria Cratægi* Cooke 13
Grev. XII. p. 25. — Hypophylla; peritheciis sparsis, minutissimis, applanatis, superne in lacinias 3-4 («epidermicas»?) apertis; sporulis ovoideis hyalinis, $3 \approx 1,5$.

Hab. in foliis *Cratægi*, in Carolina australi Americ. bor. (RAVENEL).

14. **Phyllosticta sanguinea** (Desm.) Sacc., *Depazea sanguinea* Desm. 14
8 Not. p. 14. — Maculis suborbiculatis brunneis, linea obscuriore cinctis, ambitu sanguineis; peritheciis sparsis epiphyllis, subrotundis, nigro-nitidis; sporulis ovatis, biguttulatis, hyalinis, 8μ . long.

Hab. in foliis emortuis *Pruni Padi*, in Gallia.

15. **Phyllosticta circumscissa** Cooke Grev. XI. 150. — Amphigena; 15
maculis orbicularibus, rufo-fuscis, demum delapsis; peritheciis paucis, minutis, innatis; sporulis ellipticis $8 \approx 2$.

Hab. in foliis *Pruni Armeniacæ* et *Cerasi*, in Australia merid. — Vulgo dicitur «Shot-hole fungus» et valde est noxius.

16. **Phyllosticta cerasicola** Speg. F. Argent. Pug. III. n. 93. — Ma- 16
culis subnullis; peritheciis epiphyllis, densiuscule sparsis, minutis, $80-90 \mu$. diam., atris, tenuissime membranaceis, contextu parenchymatico, olivaceo; sporulis cylindræis, utrinque obtusissime rotundatis et 1-guttulatis, minutis, $4 \approx 1$, hyalinis.

Hab. ad folia putrescentia *Pruni Cerasi*, in hortis prope la Recoleta in Argentina.

17. **Phyllosticta cratægicola** Sacc., *Ph. Cratægi* Speg. Mich. I. 483. 17
— Maculis subrotundis, griseis; peritheciis parenchymate innatis, minutissimis, $60-80 \mu$. diam., contextu laxo parenchymatico-atro; sporulis hyalinis, minutissimis, ellipticis v. ellipsoideis, biguttulatis, $2\frac{1}{2}-3 \approx 1-1\frac{1}{2}$.

Hab. in foliis *Cratægi Oxyacanthæ*, Belluno in Italia bor., rarius.

18. **Phyllosticta photinica** Sacc. Mich. I. p. 156, 276. — Maculis sub- 18
circularibus irregularibusve ephiphyllis, arescendo candidis, atro-rufo-marginatis; peritheciis remote sparsis, e globoso lenticularibus, $60-70 \mu$. diam., latiuscule pertusis, contextu validiusculo; sporulis minutissimis ovoideo-oblongis, $2-3\frac{1}{2} \approx \frac{3}{4}-1$, eguttulatis, e hyalino olivaceis.

Hab. in foliis *Photiniæ serrulatæ*, Selva in Ital. bor.

19. **Phyllosticta Photiniæ** Thüm. Fung. Litor. n. 218, t. I. f. 5. — 19
Peritheciis minutis, epiphyllis, semiprominulis, sparsis, globosis, nigris in maculis orbiculatis, albo-griseis, exaridis, determinatis; sporulis minimis, cylindrico-ovatis, utrinque rotundatis, hyalinis, simplicibus, $5 \approx 2-3$.

Hab. ad folia viva *Photiniæ serrulatæ*, Gorizia in Ital. bor.

20. **Phyllosticta photinicola** Sacc. Mich. I. p. 157. — Maculis vagis 20
majusculis, arescendo candicantibus, rufo-marginatis; peritheciis remotiusculis, punctiformibus lenticularibus, $140-150 \mu$. diam., latiuscule pertusis, contextu laxiuscule celluloso subochraceo; sporulis ovoideis, $5-6 \approx 3-3\frac{1}{2}$, dilute fuliginis.

Hab. in pag. sup. foliorum *Photiniæ serrulatæ*, Selva in Italia boreali.

21. **Phyllosticta punica** Sacc. et Speg. Mich. I. p. 156. — Maculis 21
parvis epiphyllis, subcircularibus sinuosis, arescendo candicantibus, rufo-marginatis; peritheciis punctiformibus, sparsis, lenticularibus, $80-140 \mu$. diam., pertusis, contextu parenchymatico densiusculo fuligineo; sporulis ellipsoideis, $6-7 \approx 3$, dilute olivaceis.

Hab. in foliis *Punicæ Granati*, Conegliano in Ital. bor.

22. **Phyllosticta Pirorum** Cooke Grev. XII. pag. 26. — Epiphylla; 22
maculis dealbatis, magnis, semi vel totam paginam occupantibus, linea purpurea determinatis; peritheciis sparsis, convexis, atris; sporulis linearibus, rectis vel subcurvulis, hyalinis, $10 \approx 2$.

Hab. in foliis *Pirorum*, in Carolina austr. (RAVENEL).

23. **Phyllosticta pirina** Sacc. Mich. I. p. 134. — Maculis arescendo can- 23
dicantibus, variis; peritheciis plerumque epiphyllis, punctiformibus, lenticularibus, pertusis, $100-130 \mu$. diam., contextu laxo celluloso ferrugineo; sporulis ovoideis v. ellipsoideis, $4-5 \approx 2-2\frac{1}{2}$, hyalinis.

Hab. in foliis *Piri communis* socia *Sphærella Bellona* Sacc. nec non in foliis *Piri Mali*, in Italia bor., Gallia et Lusitania. — Secundum Kickx Flandr. I, 432, *Depazea pirina* Riess est *Septoria Piri* West. seu *Sept. piricola* Desm.

24. **Phyllosticta piricola** Sacc. et Speg. Mich. I. p. 153. — Maculis 24
obsoletis; peritheciis inordinate sparsis, lentiformibus, prominulis, hypophyllis, 150μ . diam., atris; sporulis ovoideis v. ovoideo-oblongis, $2-2\frac{1}{2} \approx \frac{3}{4}-1$, hyalinis.

Hab. in foliis dejectis *Piri communis*, Conegliano in Italia boreali.

25. **Phyllosticta Aucupariæ** Thüm. Beitr. Pilz. Sib. n. 611. — Peri- 25

theciis sparsis v. subgregariis, epiphyllis, submagnis, conico-hemisphæricis, basi epidermide subcinctis, semiimmersis, atris in macula plus minusve orbiculata, arescendo cinerea, late irregulariter fusco-cincta; sporulis ellipticis, utrinque rotundatis, simplicibus, griseis 5-8 = 3.

Hab. ad folia viva Sorbi Aucupariæ, Minussinsk in Sibiria.

26. **Phyllosticta Sorbi** West. Bull. Ac. Belg. II. Ser. XII. n. 7. — 26

Maculis subcircularibus, sparsis v. confluentibus, cinerascens, atro-purpureo-marginatis; peritheciis punctiformibus, atris, in centro maculæ sitis, poro pertusis; sporulis ovoideis, hyalinis, 2-guttulatis, 10 = 5.

Hab. in pagina superiore foliorum Sorbi Aucupariæ et domesticæ, in Belgio et Lusitania.

27. **Phyllosticta Persicæ** Sacc. Mich. I. p. 147. — Maculis subcircularibus, arescendo dilute fuliginis, sanguineo-marginatis, quandoque concentricè subzonatis; peritheciis remotiusculis, punctiformibus, lenticulari-conoideis, prominulis, 80-100 μ . diam., pertusis, laxiuscule cellulosis, lutescenti-fuliginis; sporulis oblongis, interdum curvulis, 6-7 = 3½-4, 2-guttulatis, hyalinis. 27

Hab. in pag. super. foliorum Persicæ vulgaris, Selva in Ital. bor., et Coimbra in Lusitania.

28. **Phyllosticta fuscozonata** Thüm. Contr. Fl. mic. Lit. n. 331. — 28

Peritheciis epiphyllis, sparsis, mediis, fuscis, lenticularibus in macula magna, irregulari v. subsinuosa, sordide fusca, griseo-fusco-multizonata, indistincte ferrugineo-cincta; sporulis cylindrico-oblongis, utrinque rotundatis, rectis, plerumque biguttulatis, hyalinis, 7-9 = 3,5-4.

Hab. ad folia viva Rubi Idæi, Plezzo in agro Goritensi.

29. **Phyllosticta rubicola** Rabh. F. E. n. 1757, *Depazea areolata* 29

Sacc. Myc. Ven. p. 192, an Fuck. — Maculis subcircularibus parvis, arescendo dealbatis, sanguineo-marginatis; peritheciis punctiformibus, paucis; sporulis e globoso ovoideis, 3 = 2, e hyalino olivaceis.

Hab. in pag. sup. foliorum Rubi cæsii, in silva Montello in Ital. bor. et Germania.

30. **Phyllosticta Ruborum** Sacc. Mich. II. p. 342. — Maculis epiphyllis, 30

minutis candicantibus, sæpius prope nervos; peritheciis paucis punctiformibus, lenticularibus, 1/10 mill. diam.; sporulis tereti-oblongis, biguttulatis, 5 = 1½, hyalinis.

Hab. in foliis languidis Rubi fruticosi vel affinis, Rouen in Gallia (LETENDRE). — A *Phyll. rubicola* Rabh. omnino diversa.

31. **Phyllosticta Rosæ** Desm. Exs. n. 687, Ser. II. Kickx Fl. I. 416. 31
— Peritheciis epiphyllis, perexiguis, semiimmersis, nigris, globulosis, sparsis; maculis subcircularibus viridescentibus, dein fuscis v. subcinereis, purpureo-cinctis; sporulis cylindræo-obtusis, 3-4-guttulatis; cirris albidis.

Hab. in foliis Rosarum cultarum in Gallia et Belgio.

32. **Phyllosticta nuptialis** Thüm. Contr. Myc. Lusit. — Peritheciis 32
sparsis, epi- rarissime etiam hypophyllis, conico-semiimmersis, primo epidermide tectis, dein liberis et cito elabentibus, nigris, interdum confluentibus, in macula plus minusve orbiculata, arescendo ochraceo-albida, violaceo late cincta, in pagina foliorum inferiore fusca; sporulis minutissimis, subglobosis v. ovoideis, hyalinis, enucleatis, 2-2,5 = 1,5.

Hab. in foliis vivis Myrti communis, Matta do Rangel prope Coimbra in Lusitania (MOLLER).

33. **Phyllosticta Eucalypti** Thüm. Contr. Fl. Lusit. n. 374. — Peri- 33
theciis epiphyllis, gregariis, minutis, punctiformibus, leniter emersis, nitido-atris, ostiolo centrali, in macula maxima, irregulari primo opace sordido-fusca, demum exarescente-albicante, anguste purpureo-cincta, subtus sordide brunnea; sporulis numerosis, continuis, breve ellipsoideis, utrinque rotundatulis, achrois, 4 = 1,5, re-ctis, enucleatis.

Hab. in foliis vivis languidisve Eucalypti Globuli, in silvis Matta de Valle de Canas prope Coimbra in Lusitania (MOLLER).

34. **Phyllosticta Myricæ** Cooke in Rav. Fung. Amer. n. 154 et in 34
Grevillea. — Maculis suborbicularibus, rubro-brunneis; peritheciis minimis, tectis, in maculis nidulantibus; sporulis minutis, arcte ovalibus, hyalinis 7 μ . longis.

Hab. in foliis Myricæ ceriferæ, Aiken in Amer. bor.

35. **Phyllosticta Calycanthi** Sacc. et Speg. Mich. I. p. 139. — Ma- 35
culis versiformibus, arescendo candicantibus; peritheciis amphigenis, lenticularibus, 150 μ . diam., latiuscule pertusis, contextu laxo celluloso, subochraceo; sporulis ellipsoideis, 7-9 = 5-6, hyalinis.

Hab. in foliis Calycanthi præcocis, Conegliano in Italia boreali.

36. **Phyllosticta Siliquastri** Sacc. et Speg. Mich. I. p. 148. — Maculis 36
versiformibus, arescendo rufescentibus; peritheciis amphigenis, sparsis, prominulis, umbilicatis, anguste pertusis, 120-150 μ . diam., ex

olivaceo luteolis; sporulis ovoideis oblongisve, obtusiusculis, 6-7
 ≈ 3-4, 2-guttulatis, hyalinis.

Hab. in foliis *Cercidis Siliquastri*, Susegana in Italia
 bor., et Coimbra in Lusitania.

37. **Phyllosticta Robiniæ** Sacc. Mich. I. p. 146. — Maculis vagis ir- 37
 regularibus rufescentibus, margine subconcolori; peritheciis punctiformibus raris; sporulis ovoideis, 4 ≈ 3, granulosis, hyalinis.

Hab. in foliis *Robiniæ Pseudacaciæ*, Selva, Conegliano
 in Ital. bor. — Huc *Ascochyta Robiniæ* Sacc. Myc. Ven. p. 195
 non Lib. quæ ad *Septoriam Robiniæ* West. spectat.

38. **Phyllosticta laburnicola** Sacc. Mich. I. p. 152. — Maculis nullis; 38
 peritheciis hinc inde congregatis, lenticularibus, 60-70 μ . diam.
 pertusis; sporulis oblongo-cylindræis, 3-5 ≈ 1, hyalinis.

Hab. in pag. infer. foliorum *Cytisi Laburni*, Selva in Ita-
 lia boreali.

39. **Phyllosticta cytisella** Sacc. Mich. I. p. 137. — Maculis epiphyllis 39
 angulosis, arescendo dealbatis, fusco-cinctis; peritheciis punctiformibus, sparsis, pertusis; sporulis ex oblongo ovoideis, 5 ≈ 3,
 eguttulatis, hyalinis.

Hab. in foliis *Cytisi nigricantis* in silva Montello Italiæ 40
 bor. — Habitu, forma et colore maculæ a *Ph. Cytisi* Desm. differt.

40. **Phyllosticta Cytisi** Desm. Not. XIV. (1847) p. 34, Mich. I. p. 146.
 — Maculis arescendo fuscidulis, subcircularibus, vix marginatis;
 peritheciis sparsis, punctiformibus; sporulis ovoideo-oblongis, 6 ≈
 3-4, sæpe curvulis, utrinque rotundatis 1-guttulatisque, hyalinis.

Hab. in foliis *Cytisi Laburni*, in Gallia, Italia, Britannia,
 Austria et Belgio.

41. **Phyllosticta gallarum** Thüm. Beitr. Pilz fl. Sibir. n. 612. — Pe- 41
 ritheciis epi- interdum etiam hypophyllis, dense gregariis, subma-
 gnis, conico-emersis, basi epidermide lacerata cinctis, atris in ma-
 cula plus minusve orbiculata, arescendo albicante, fusco-cincta,
 semper gallarum Cynipidearum os ambiens v. in folii pagina infe-
 riore in gallæ gibbere positus; sporulis ellipsoideis, interdum inæ-
 quilateralibus, simplicibus, pallidissime fuligineis, rarissimis, 5-
 6 ≈ 3-5.

Hab. ad folia viva *Caraganæ arborescentis*, prope Mi-
 nussinsk in Sibiria.

42. **Phyllosticta Borszczowii** Thüm. Beitr. Pilz. Sibir. n. 805. — Pe- 42
 ritheciis dense gregariis, hypophyllis, raro amphigenis, punctiformibus,
 hemisphærico-prominulis, liberis, nitido-atris in macula ob-

soleta v. in partibus subexaridis decoloratisve foliorum; sporulis numerosis, minutissimis, simplicibus, enucleatis, ellipticis, utrinque rotundatis, hyalinis, $3 \approx 1,5$.

Hab. ad folia viva Caraganæ arborescentis, in lapidosis prope Maidaschi in Sibiria.

43. **Phyllosticta Kennedyæ** Winter Cont. Myc. Lus. n. 800. — Macu- 43
lis irregularibus, sæpe confluentibus, plerumque marginalibus, fusciscenti-pallidis, demum albescentibus exaridisque, fusco-cinctis; peritheciis hypophyllis, sparsis, lenticularibus, poro pertusis, fuscis, 96-105 μ . lat.; sporulis ellipticis, continuis, hyalinis 7-9 \approx 3,5.

Hab. ad folia viva Kennedyæ ovatæ, Coimbra in Lusitania, in horto botanico.

44. **Phyllosticta australis** Speg. Fung. Arg. Pug. II. n. 119. — Ma- 44
culis nullis v. griseo-arescentibus, indeterminatis; peritheciis atro-fuligineis, lenticularibus, 100-120 μ . diam., contextu fuligineo, parenchymatico; sporulis ellipticis, utrinque acuminato-rotundatis, biguttulatis, 8-10 \approx 3-4, hyalinis.

Hab. in foliis dejectis Erythrinæ Cristæ-galli, in paludosis cerca de la Recoleta in Argentina.

45. **Phyllosticta Glycines** Thüm. Contr. Fl. myc. Lusit. — Perithe- 45
ciis epiphyllis, pro ratione magnis, sparsis, lenticulari-applanatis, aterrimis in macula magna, irregulari, arescendo ferrugineo-ochracea; sporulis ellipticis, utrinque truncato-rotundatis, plerumque binucleatis, rectis, achrois, 6 \approx 2,5.

Hab. in foliis vivis Glycines violaceæ, Choupal prope Coimbra in Lusitania (MOLLER).

46. **Phyllosticta Wistarizæ** Sacc. Fungi Gallici Ser. VI. n. 2258. — 46
Maculis irregularibus amphigenis, ochraceis; peritheciis gregariis lentiformibus, pertusis, $\frac{1}{6}$ mill. diam., tenui-membranaceis; sporulis oblongis, deorsum acutioribus, 2-guttatis, 8-10 \approx 3-3,5; basidiis acicularibus 15 \approx 1,5.

Hab. in foliis Wistarizæ sinensis, Saintes in Gallia (BRUNAUD). — Ob basidia *Phomæ* accedit, cetera vero *Phyllostictæ*.

47. **Phyllosticta Bauhinizæ** Cooke Grev. XII. pag. 26. — Epiphylla; 47
maculis irregularibus, fuscis; peritheciis minutis, sparsis, punctiformibus, atris; sporulis ellipticis, hyalinis, 7,5 \approx 2.

Hab. in foliis Bauhinizæ, Caraccas in Venezuela.

48. **Phyllosticta Ceratonizæ** Berk. in Welw. F. Portug. pag. 8. — 48
Maculis nigro-limitatis, irregularibus; sporulis minutis anguste ellipticis, hyalinis.

Hab. in foliis *Ceratonix Siliquæ*, Arrabida et Coimbra in Lusitania.

49. **Phyllosticta ocellata** Pass. et Beltr. F. Sic. n. 23. — Maculis par- 49
vis, ocellatis, subrotundis, exaridis, albis, margine elevato et areola
lutescentibus circumdatis; peritheciis punctiformibus, epidermide
velatis, dein ostiolo minutissimo atro erumpentibus; sporulis mi-
nutissimis, bacteriformibus, medio non constrictis $2\frac{1}{2}$ μ . longis.

Hab. ad folia languida Citri Limonum, Monostalla in Si-
cilia. — *Phyll. Platanoidis* affinis.

50. **Phyllosticta marginalis** Penz. Mich. II. p. 425. — Maculis albis, 50
aridis, irregularibus, brunneo-cinctis; peritheciis majusculis 300-
360 μ . diam., in macularum margine insidentibus, amphigenis,
hypodermeis, paullum depressis, aterrimis; sporulis cylindræis,
utrinque rotundatis eguttulatis, hyalinis, 2,5-3,5 = 0,8-1,5.

Hab. in foliis vivis Citri medicæ L. (var.), in frigidario
r. horti botanici Patavini.

51. **Phyllosticta micrococcoides** Penz. Mich. II. p. 426. — Maculis 51
atro-brunneis, nebulosis, irregularibus; peritheciis hypophyllis,
dense gregariis, 90-110 μ . diam., prominulis, sphæroideis, con-
textu parenchymatico; sporulis hyalinis, subglobosis, minimis, 1-
1,5 = 0,7-1, eguttulatis.

Hab. in foliis junioribus, quæ enecat, Citrorum socia *Septo-*
ria Tibia Penz., Strà prope Padova, in Ital. bor.

52. **Phyllosticta Hesperidearum** (Catt.) Penz. Mich. II. pag. 425. — 52
Phoma Hesperidearum Catt. Mic. Agrumi p. 10. — Maculis or-
bicularibus vel sinuosis irregularibus, brunneis, dein fulvis, cine-
reis vel albicantibus, exaridis, totam folii substantiam penetran-
tibus, in ambitu brunneo-purpureis; peritheciis perexiguis, innato-
prominulis, nigris, ore orbiculari, amplo apertis; sporulis ellipticis,
utrinque rotundatis, hyalinis, 3-4 = 2-2,5.

Hab. in foliis vivis Hesperidearum, Pavia (CATTANEO), S.
Terenzo prope Spezia (GIBELLI), Strà prope Padova (PENZIG).

53. **Phyllosticta disciformis** Penz. Mich. II. p. 424. *Phoma Hesper-* 53
ridearum Sacc. in Michelia VII, p. 274 (non Cattaneo). — Ma-
culis cinereo-albescentibus, orbicularibus vel irregularibus, linea
fusco-atra cinctis; peritheciis sparsis vel laxè gregariis, minutis-
simis, punctiformibus, hypodermicis, 120 μ . diam., brunneis, te-
nuibus, contextu parenchymatico; sporulis ellipticis, utrinque ro-
tundatis, hyalinis, eguttulatis, 4-6 = 2-3.

Hab. in foliis vivis Citri Limonum, Padova (SACCARDO), Bo-

logna (GIBELLI), Atalantiæ buxifoliæ et Limoniæ australis, Cattajo prope Padova (PENZIG).

54. **Phyllosticta Beltranii** Penz. in Mich. II. pag. 423 et F. ital. n. 1153. — Maculis obsoletis; peritheciis hypophyllis dense gregariis, minimis, 80–90 μ . diam., depressis, hypodermicis, demum erumpentibus, atris; sporulis minutissimis, 2,5–3 \times 0,7–1, cylindricis, apice rotundatis vel subtruncatis, hyalinis, eguttulatis.

Hab. in nervo mediano foliorum delapsorum Citri Limonium, Carini (Sicilia), ubi legit V. BELTRANI.

55. **Phyllosticta aurantiicola** (B. et C.) Sacc. *Sphæroopsis aurantii-* 55
cola B. et C. On Cuban Fungi, p. 352, n. 564. — Peritheciis gregariis in maculis pallidis sitis, erumpentibus; sporulis clavatis hyalinis, 7 μ . longis.

Hab. in foliis emortuis Citri Aurantii, in Cuba.

56. **Phyllosticta Pseudoplatani** Sacc. Mich. I. p. 136. — Maculis sinuo- 56
sis arescendo dealbatis, brunneo-cinctis; peritheciis lenticularibus, 60 μ . diam., laxiuscule ferrugineo-parenchymaticis, pertusis; sporulis oblongis v. breve cylindræis, 5–6 \times 3, eguttulatis, hyalinis.

Hab. in pag. sup. foliorum Aceris Pseudoplatani, Selva in Ital. bor., et Coimbra in Lusitania.

57. **Phyllosticta Platanoidis** Sacc. Mich. I. p. 360. — Maculis obsoletis 57
vel subnullis; peritheciis hypophyllis, dense gregariis, hinc inde maculiformiter aggregatis, epidermide velatis, minutissimis, globosis, 70–80 μ . diam., contextu parenchymatico, ostiolo manifesto; sporulis minutissimis, bacteriformibus, medio constrictis, utrinque rotundatis, 2–4 \times 0,5–1, hyalinis, eguttulatis.

Hab. in foliis delapsis Aceris Platanoidis, A. Negundinis, in Italia bor. et Gallia.

58. **Phyllosticta Negundinis** Sacc. et Speg. Mich. I. p. 149. — Maculis 58
variis arescendo fulvo-rufescentibus; peritheciis sparsis punctiformibus, lenticularibus, 100–120 μ . diam., latiuscule pertusis, contextu laxiuscule parenchymatico, dilute fuligineo; sporulis ellipsoideis, 6–7 \times 3–4, obsolete 2-guttulatis, hyalinis.

Hab. in foliis Negundis fraxinifoliæ, Conegliano in Italia boreali.

59. **Phyllosticta fallax** Sacc. et Roum. Mich. II. p. 620. — Perithe- 59
ciis in maculis minutis dealbatis sparse innatis, epiphyllis, lenticularibus, pertusis 100 μ . diam.; sporulis oblongo-ellipsoideis, 5–6 \times 3–3 $\frac{1}{4}$, chlorinis.

Hab. in foliis Aceris Pseudoplatani, in Gallia et Ger-

- mania. — A *Phyllosticta Pseudoplatani* Sacc. sporulis chlorinis mox dignoscitur.
60. **Phyllosticta acericola** C. et E. in Grev. VIII. p. 11. — Epiphylla; maculis pallidis, purpureo-cinctis; peritheciis punctiformibus, dispersis; sporulis ovatis, hyalinis $8 \approx 5$.
Hab. in foliis Acerum, New Jersey in Am. bor. (ELLIS).
61. **Phyllosticta Aceris** Sacc. Mich. I. p. 147, *Ascochyta Aceris* Sacc. Mycol. Ven. 194, non Libert, quæ sec. auctores est *Septoria Aceris* (Lib.) B. et Br. — Maculis subcircularibus arescendo ochraceis, majusculis; peritheciis punctiformibus, lenticularibus, pertusis, atris; sporulis ovoideis v. oblongo-ovoides, $5 \approx 2\frac{1}{2}$ -3, 2-guttulatis, hyalinis.
Hab. in foliis Aceris campestris, Vittorio in Ital. bor. — *Ascochyta Aceris* Fuck. Symb. 387 est *Cheilaria Aceris* Lib. Exs. n. 255, seu *Didymosporium Aceris* Desm.
62. **Phyllosticta Rhamni** West. Not. V. 26. *Phyll. Frangulæ* Kx. Fland. I. 418. — Maculis vagis, subochraceis, fusco-cinctis; peritheciis sparsis, v. in centro maculæ gregariis, punctiformibus, pertusis; sporulis oblongis ovoideisve, $5-6 \approx 3-3\frac{1}{2}$, e hyalino olivaceis.
Hab. in foliis Rhamni Frangulæ et Alaterni, in Belgio, Italia, Lusitania. — Sporulæ in Kx. l. c. hyalinæ indicantur, et 2-guttulatæ, sed ab ætate pendere potest.
63. **Phyllosticta rhamnigena** Sacc. Mich. I. p. 156. — Maculis subcircularibus arescendo sordide albis, fusco-marginatis; peritheciis epiphyllis dense gregariis punctiformibus, prominulis, atris; sporulis ovoideo-oblongis, $4\frac{1}{2}-5 \approx 3$, 2-guttulatis, fuscidulo-olivaceis.
Hab. in foliis Rhamni cathartici et Alaterni, in Italia, Gallia, Lusitania. — A *Phyll. Rhamni* West. præcipue maculæ natura differt.
64. **Phyllosticta rhamnicola** Desm. 14 Not. pag. 32. — Maculis amphigenis, albidis vel cinereis, orbiculatis, sparsis confluentibusque, dein evanidis; peritheciis hypophyllis, minutis, numerosis, nigris, nitidis, prominulis, subglobosis, dein collabascendo concavis; sporulis exilissimis, subcylindricis, utrinque obtusis, 6μ . longis.
Hab. in foliis emortuis Rhamni alpini, in Gallia et Belgio.
65. **Phyllosticta Cathartici** Sacc. Mich. I. p. 146. — Maculis subcircularibus, arescendo ochraceis, fusco-rufo-marginatis; peritheciis punctiformibus, lenticularibus pertusis; sporulis ovato-fusoideis, $10 \approx 4$, 2-guttulatis, hyalinis.
Hab. in pag. sup. foliorum Rhamni cathartici, Selva in Ital.

bor. — Ab hac *Phyllosticta Rhamni* West. differt sporulis multo minoribus, nempe $5 \approx 3$; *Phyllosticta rhamnicola* (Lasch) Desm. sporulis cylindræis 7 long. recedit. Huc e contra spectat *Depazea rhamnicola* Sacc. Mycol. Ven. 192 et probabiliter Fuck. Symb. 380 (in Rhamno cathart.) non Laschii, quæ diversam *Phyllostictam rhamnicolam* Desm. sistit.

66. **Phyllosticta Frangulæ** West. Exs. n. 958 Kickx Fl. crypt. Fl. I. 66 418. — Peritheciis epiphyllis, perexiguis, fusco-nigris, 10-15 in macula subrotunda, brunnea dein cinerea, vinoso-marginata sitis; sporulis ovoideis, obtusis, 2-guttulatis.

Hab. in foliis Rhamni Frangulæ, in Belgio.

67. **Phyllosticta Zizyphi** Thüm. Contr. Myc. Lusitan. — Peritheciis 67 epiphyllis, numerosis, punctiformibus, gregariis, minutissimis, atris in macula sinuosa, arescendo griseo-ochracea, late fusco-marginata; sporulis ellipsoideis, utrinque rotundato-obtusatis, rectis vel paullulo arcuatis, grosse biguttulatis, achrois, $6 \approx 2,5-3$.

Hab. ad folia viva Zizyphi vulgaris, Coimbra in Lusitania, in horto botanico (MOLLER).

68. **Phyllosticta Evonymi** Sacc. Mich. I. p. 155. — Maculis minutis 68 angulosis, arescendo candidis, brunneo-cinctis; peritheciis sparsis, punctiformibus, 100 μ . diam., lenticularibus, pertusis; sporulis oblongis, sæpius inæquilateralibus, utrinque obtusis, $4-5 \approx 3\frac{1}{2}-4$, obsolete 2-guttulatis, chlorinis.

Hab. in foliis Evonymi europæi, Vittorio in Italia boreali, et in Gallia.

69. **Phyllosticta pustulosa** S. et R. in Revue mycol. — Maculis ple- 69 runque epiphyllis elevatis variis, initio rufescentibus, dein centro dealbatis; peritheciis sparsis, punctiformibus, $\frac{1}{10}$ mill. diam., sporulis obovatis, $4 \approx 2$, hyalinis.

Hab. in foliis Evonymi japonici, in Algeria.

70. **Phyllosticta Bolleana** Sacc. Ph. Evonymi Thüm. Contr. Mic. Lit. 70 n. 220, f. 20 (non Sacc.). — Peritheciis sparsis, mediis, epiphyllis, semiimmersis, globosis, nigris in macula exarida, irregulari, albo-grisea, anguste fusco-marginata; sporulis parvis, ellipsoideis, utrinque rotundatis, pallidissime griseis, $4-5 \approx 2-2,5$.

Hab. ad folia viva Evonymi japonici, Gorizia.

71. **Phyllosticta evonymella** Sacc. Mich. I. 138. *Sphæria Evonymi* 71 Kunze in Fr. S. M. II. p. 439. — Maculis minutis, angulosis, ex olivaceo expallentibus; peritheciis dense gregariis, punctiformibus, globulosis, latiuscule pertusis, prominulis, solidiusculis; sporulis

tenuissimis, cylindræis, rectiusculis, utrinque rotundatis, $4 \approx 1/2 - 3/4$, hyalinis.

Hab. in foliis *Evonymi europæi*, Vittorio in Ital. bor., et in Germania et Gallia, socia *Ph. Evonymi* Sacc., a qua longe differt.

72. **Phyllosticta nemoralis** Sacc. Mich. II. p. 83. — Maculis indeter- 72
minatis, expallentibus; peritheciis dense gregariis, amphigenis, punctiformibus, 100–140 μ . diam.; sporulis ovoideis, 7–8 $\approx 2 - 2 1/4$, 2-guttulatis, hyalinis.

Hab. in foliis *Evonymi europæi*, Saintes in Gallia (BRUNAUD). — A *Ph. Evonymi* Sacc. et *Ph. evonymella* Sacc. probe diversa.

73. **Phyllosticta aliena** (Fr.) Sacc. Mich. II. p. 342, *Sphæria* et *Pe-* 73
risporium alienum Fr. S. M. III, 252, II. 502. — Macula elongata expallente; peritheciis emerso-innatis, confertis, minimis, globosis, nigris, 80–90 μ . diam., poro pertusis; sporulis oblongo-ovatis, 7–8 $\approx 3,5$, hyalinis.

Hab. in ramulis subviviis *Evonymi europæi*, in Gallia (MOUGEOT).

74. **Phyllosticta tineola** Sacc. Mich. I. p. 531. — Maculis amphige- 74
nis, vagis, ochraceis; peritheciis sparsis, globoso-lenticularibus, 70–80 μ . diam., pertusis; sporulis oblongo-cylindræis, utrinque rotundatis, curvulis, 15 ≈ 3 , 2-guttulatis, hyalinis.

Hab. in foliis *Viburni Tini*, Rouen in Gallia (LETENDRE). — A *Ph. tineæ* Sacc. diversa.

75. **Phyllosticta tineæ** Sacc. Mich. I. p. 135. — Maculis subcirculari- 75
bus v. irregularibus, arecendo dealbatis; peritheciis punctiformibus applanatis, $1/6$ mill. diam., pertusis; sporulis minutissimis ex ovato oblongis, 4–5 ≈ 1 , hyalinis.

Hab. in pag. sup. foliorum *Viburni Tini*, Selva in Ital. bor.

76. **Phyllosticta Roumeguèrii** Sacc. Mich. II. p. 88. — Maculis vagis, 76
plerumque epiphyllis, arecendo griseis, margine concolori; peritheciis remotis lenticularibus, pertusis, 60–80 μ . diam., contextu tenui-parenchymatico, dilute fuligineo; sporulis ovoideo-clavulatis, 7–8 $\approx 3 1/2 - 4$, sæpius inæquilateralibus, eguttulatis, hyalinis.

Hab. in foliis *Viburni Tini*, prope *Amts* in Gallia (ROUMEGUÈRE). — A *Ph. tineæ* et *Ph. tineolæ* meis diversa.

77. **Phyllosticta Opuli** Sacc. Mich. I. p. 146. — Maculis angulato- 77
sinuosis, arecendo dilute ochraceis, fusco-marginatis; peritheciis punctiformibus, remote sparsis, lenticularibus, 60 μ . diam., pertusis; sporulis oblongis, utrinque rotundatis, 1-guttulatisque, 7–7 $1/2 \approx 2 1/2$, hyalinis.

Hab. in foliis Viburni Opuli, in silva Montello in Ital. bor.

78. **Phyllosticta Rhois** West. Bull. Ac. Belg. Ser. II, t. XII. n. 7. — 78

Maculis epiphyllis, minutis, irregularibus, angulosis, internerviis, pallide fuscis, obscurius marginatis; peritheciis raris, in centro maculæ sitis, nigris, tandem subliberis, poro pertusis; sporulis ovoideis, hyalinis, 2-guttulatis, $60 \approx 3-5$.

Hab. in foliis Rhois Cœtini, Vlierbeeck in Belgio (LEBURTON). 79

79. **Phyllosticta rhoïna** Kalch. et Cooke Grev. IX. 20. — Epiphylla; maculis elongatis, fuscis; peritheciis punctiformibus, atro-fuscis, dense congestis; sporulis arcte ellipticis, hyalinis, $5 \approx 2$.

Hab. in foliis Rhois levigatæ, in Africa australi.

80. **Phyllosticta Toxicodendri** Thüm. Fung. American. trig. Sp. n. 80

15. — Maculis parvis, rubro-fuscis irregularibus vel circularibus, atro-rubro-marginatis; peritheciis epiphyllis, sparsis v. solitariis, mediis, hemisphærico-orbiculatis, nigris; sporulis minutissimis, $1,5 \approx 1$, ellipsoideis, hyalinis, eguttulatis.

Hab. in foliis Rhois Toxicodendri, Aiken in Car. America boreali (RAVENEL).

81. **Phyllosticta toxica** Ell. et Mart. Amer. Nat. 1882, p. 1002. — 81

Maculis subcircularibus, minutis, cinerescentibus, brunneo-marginatis; peritheciis nigris, epiphyllis, innatis, 70μ . diam.; sporulis subhyalinis, subglobosis, granulosis, $6-7,5 \mu$. diam.

Hab. in foliis languidis Rhois Toxicodendri, Decorah, Jowa (E. W. HOLWAY).

82. **Phyllosticta ribicola** (Fr.) Sacc. *Sphæria* (Depazea) *ribicola*, Fr. 82

S. M. II, p. 530, Curr. Simpl. Sphær. n. 395, f. 153. — Maculis latis lacteis; peritheciis pluribus minimis nigris, pilis longissimis deciduis instructis (?); sporulis oblongis, curvatis, utrinque obtusiusculis $15-17 \mu$. long., continuis, hyalinis.

Hab. in foliis Ribis rubri, in Suecia etc. — Icon Curreyi verisimiliter *Glæosporium Ribis* (Lib.) spectat.

83. **Phyllosticta Grossulariæ** Sacc. Mich. I. p. 136. — Maculis subcir- 83

cularibus sinuosisve, arescendo griseis albicantibusve, fusco-marginatis; peritheciis punctiformibus sparsis; sporulis ovoideis v. ellipsoideis, $5-6 \approx 3$, hyalinis.

Hab. in pag. super. foliorum Ribis Grossulariæ, Selva in Ital. bor. et in Amer. bor. — Huc *Depazea ribicola* Sacc. Mycol. Ven. p. 192 et forte Fuckelii, non Friesii qui in S. M. II. 530 matricem et characteres alienos affert.

84. **Phyllosticta Lauri** West. Exs. n. 650. Kx Flandr. I. 417. — Ma- 84

culis sinuosis, fuscis, dein arescendo dealbatis, fusco-cinctis; peritheciis punctiformibus, lenticularibus; sporulis oblongo-ovoideis, $10 \approx 3$, utrinque 1-guttulatis, hyalinis.

Hab. in pag. sup. foliorum Lauri nobilis, in Italia boreali, Belgio et Lusitania.

85. **Phyllosticta laurella** Sacc. Mich. I. p. 157. — Maculis latis sinuosis arescendo expallentibus, fusco-cinctis; peritheciis sparsis, punctiformibus, pertusis; sporulis subsphæroideis, minutis, $4 \approx 3$, fuscidulis.

Hab. in foliis Lauri nobilis, Selva in Ital. bor.

86. **Phyllosticta nobilis** Thüm. Contr. F. Litor. n. 328. — Peritheciis epiphyllis, pro ratione magnis, solitariis, hemisphærico-semiimmersis, opaco-nigris in macula irregulari, sordide ochracea, arescenti, linea obscuriore cincta; sporulis numerosissimis, minutissimis, ellipticis, utrinque rotundatis, enucleatis, hyalinis, $2,5-3 \approx 2$.

Hab. in foliis vivis Lauri nobilis, Gorizia. — A *Phyllosticta laurella* Sacc. et *Ph. Lauri* Westd. valde diversa.

87. **Phyllosticta micropuncta** Cooke F. Texas 142. — Epiphylla; peritheciis minutis, atris, congestis; maculis subcircularibus; sporulis minutis, ovatis, hyalinis, 3μ . longis.

Hab. in foliis Perseæ caroliniensis, Houston Texas, in America boreali.

88. **Phyllosticta Sassafras** Cooke Grev. XII. pag. 26. — Epiphylla; maculis orbicularibus, fuscis; peritheciis numerosis, quandoque circinatis, sparsisve, atris; sporulis elliptico-lanceolatis $7 \approx 1,5 \mu$. hyalinis.

Hab. in foliis Sassafras officinalis, in Carolina australi (RAVENEL).

89. **Phyllosticta aromatoiphila** Sacc. Mich. II. p. 276. — Maculis vagis, minutis, arescendo griseis; peritheciis sparsis sublenticularibus, $80-90 \mu$. diam., poro pertusis; sporulis ellipsoideis $4 \approx 3$, hyalinis.

Hab. in foliis Camphoræ officinarum, in horto Patavino in Ital. bor., vere 1880. — A *Phyll. Lauri* sporulis dimidio brevioribus differt.

90. **Phyllosticta vulgaris** Desm. Ann. Sc. nat. 1849, XI. p. 350. *Ph. Lonicerae* West. (?) Bull. Ac. Brux. 1851, p. 399. — Maculis subcircularibus, olivaceo-rufulis, dein expallentibus, fusco-marginatis; peritheciis epiphyllis, prominulis, perexiguis, globoso-depressis, initio succineis, dein fuscis; sporulis minutis, cylindræco-ovatis, obtusis, 2-guttulatis, hyalinis, $10-14 \approx 2,5-3,5$; cirris albidis.

Hab. in foliis languidis *Loniceræ Caprifolii*, ciliatæ, *Periclymeni* et *Xylostei*, in Gallia, Britannia, Italia, Lusitania, Belgio, Germania, Austria, America boreali. — Var. **Cerasi**: maculis majoribus, sæpius internerviis marginalibusque. — Var. **Viburni**: maculis magnis, immarginatis, denique plerumque lacertatis. — Var. **Philadelphi**: maculis minutis, confluentibus denique folium totum occupantibus. — In foliis arborum citatarum in Gallia.

91. **Phyllosticta Caprifolii** (Opiz) Sacc., *Depazea Caprifolii* Opiz (?), 91
Sacc. Mycol. Ven. p. 193. — Maculis amphigenis, subrotundis, are-
scendo griseis, fusco-cinctis; peritheciis remotis, punctiformibus;
sporulis oblongis, 6-7 \approx 2½, 2-guttulatis, hyalinis.

Hab. in pag. super. fol. *Loniceræ Caprifolii*, Colfosco et in silva Montello in Ital. bor., socia *Sphærella Clymenia* Sacc.,
cujus est spermogonium; nec non in Gallia et in *Lonicera Pal-*
lasii, in Sibiria.

92. **Phyllosticta nitidula** Dur. et Mont. Fl. Alg. et Mont. Syll. n. 92
1027. — Epiphylla; maculis amplis, amphigenis, fuscescenti-car-
neis, zona fusca cinctis; peritheciis minutis, prominulis, sparsis, ni-
tidulis; sporulis atomisticis.

Hab. in foliis *Loniceræ implexæ*, Alger (DURIEU).

93. **Phyllosticta Symphoricarpi** West. Not. VII. 7. Kx. Flandr. I. 93
419, Mich. I. pag. 148. — Maculis epiphyllis variis atrofuligineis,
dein centro cinerascentibus; peritheciis punctiformibus, lenticula-
ribus; sporulis oblongis, 6-7 \approx 2½, utrinque rotundatis, hyalinis.

Hab. in foliis *Symphoricarpi racemosæ*, in Belgio, Italia et ditone Goritensi.

94. **Phyllosticta sambucicola** Kalchbr. Hedw. 1864, p. 73, I. Eur. 94
n. 668. — Maculis sat amplis subangulatis, griseis, purpureo-fu-
sco-marginatis; peritheciis crebris, subprominulis, minutis, fusco-
atris; sporulis minutissimis, hyalinis, globosis.

Hab. in foliis *Sambuci*, in Hungaria.

95. **Phyllosticta Sambuci** Desm. 14 Not. pag. 34. — Epiphylla; ma- 95
culis candidis, solitariis vel confluentibus in series dispositis; pe-
ritheciis innato-prominulis, minutissimis, paucis, fusco-nigris, poro
apertis, nucleo albido; sporulis perexiguis, ovoideo-oblongis, bi-
guttulatis, 5-7 μ . long.

Hab. in foliis languescentibus *Sambuci Ebuli*, nigræ et
racemosæ, in Gallia, Belgio et Britannia.

96. **Phyllosticta viticola** Sacc. et Sp. Mich. I. p. 153. — Maculis va- 96

gis sinuosis, arescendo candidis, anguste fusco-cinctis, epiphyllis; peritheciis punctiformibus, lenticularibus, pertusis; sporulis ellipsoideis, $5 \approx 2\frac{1}{2}$ eguttulatis, e hyalino olivaceis.

Hab. in foliis *Vitis viniferæ*, in agro Tarvisino et Gortiansi in Italia boreali.

97. **Phyllosticta Labruscæ** Thüm. Weinst. Pilz. pag. 189. — Peritheciis mediis, dense gregariis, numerosis, sine ordine dispositis, epiphyllis, hemisphæricis, prominentibus, atris in macula suborbiculari, distincte limitata, linea brunnea cincta, exarida, rufofusca, epiphylla, in pagina inferiore maculam pallidam fuscescentem, indistinctam efficiente; sporulis numerosis, oblongis, regularibus, utrinque rotundatis, diaphanis, episporio tenui, achrois, intus granulosus, $9-11 \approx 6-7 \mu$.

Hab. in foliis vivis *Vitis Labruscæ*, Newfield, New Jersey in America septentrionali (J. B. ELLIS).

98. **Phyllosticta Vitis** (Fuck.?) Sacc. Mich. I. p. 135. — Maculis vagis, sinuosis arescendo dealbatis, fusco-marginatis; peritheciis remotis, punctiformibus, lenticularibus, 70μ diam., pertusis, contextu laxiuscule parenchymatico fuligineo; sporulis oblongo-ovoideis, $6 \approx 3$, 2-guttulatis, hyalinis.

Hab. in pag. sup. foliorum *Vitis viniferæ*, Casale Monferato et Selva in Italia boreali. — *Phyllosticta Vitis* Fuck. et *Phyll. Vitum* Desm. in Hoffm. Ind. mycol. pag. 96 citatæ, mihi ignotæ sunt.

99. **Phyllosticta viticola** Thüm. Plze Weinst. p. 188 (1878) *Septoria viticola* Berk. sec. Ravenel. — Maculis magnis, subcircularibus, subtus fuscis, supra fusco-purpureis, limitatis; peritheciis amphigenis sed sæpius hypophyllis, paucis, minutis, globosis; sporulis breve ellipsoideis, 1-guttulatis, $8-9 \approx 4$, hyalinis.

Hab. in foliis vivis *Vitis vulpinæ*, Aiken in Carolina australi (H. W. RAVENEL).

100. **Phyllosticta hedericola** Dur. et Mont. Syll. 279, Mich. I. p. 137. — *Ph. destructiva* f. *Hederæ* Oudem. — Maculis epiphyllis, subcircularibus, arescendo dealbatis, latiuscule fusco-marginatis; peritheciis punctiformibus, prominulis, pertusis; sporulis oblongis, $6 \approx 2\frac{1}{2}$, 2-guttulatis, hyalinis.

Hab. in foliis *Hederæ Helicis*, in Italia, Gallia, Algeria, Austria.

101. **Phyllosticta Hederæ** Sacc. et Roum. Mich. II. pag. 620. — Peritheciis epiphyllis, late et dense gregariis (in partibus arescenti-

- bus), lenticularibus, 130 μ . diam., pertusis; sporulis minutissimis, oblongis, 4 \approx 1, hyalinis.
Hab. in foliis Hederæ Helicis socia *Phoma cylindrospora*, in Gallia et Belgio.
102. **Phyllosticta concentrica** Sacc. Fungi Veneti Ser. V. 203. — 102
 Maculis latis, subcircularibus, arescendo expallentibus; peritheciis plerumque concentrice dispositis, lenticularibus 90-100 μ . diam., atris, poro amplo hiantibus, membranaceis; sporulis globosis v. ovoideis, 10 \approx 8-9, minute pluriguttulatis, hyalinis.
Hab. in foliis Hederæ Helicis, Padova in Ital. bor.
103. **Phyllosticta cornicola** (DC.) Rabh. in Kl. Herb. myc. n. 454, 103
Depazea cornicola DC. An huc *Phyll. Corni* West., Kx Flandr. I. 419? — Maculis epiphyllis majusculis, atosanguineis, dein centro expallentibus; peritheciis paucis punctiformibus, lenticularibus, pertusis, 150-200 μ . diam.; sporulis oblongo-ellipsoideis, 7-9 \approx 3-4, utrinque acutiusculis, 2-guttulatis, hyalinis.
Hab. in foliis Corni sanguineæ, sericeæ et paniculatæ, in Italia, Gallia, Sibiria, Amer. bor.
104. **Phyllosticta Corni** West. in Kickx Crypt. Fl. I. 419. — Ma- 104
 culis angulosis, fusco-nigrescentibus, dein centro albis; peritheciis sparsis, paucis (3-6), punctiformibus, nigris, epiphyllis, 10 \approx 5.
Hab. in foliis Corni albæ, in Belgio (WESTENDORP).
105. **Phyllosticta insulana** Mont. Pl. Cell. VII. Cent. n. 14. — Hypo- 105
 phylla, maculis folio decolorato pallidis, lineola brunnea tenuissima flexuosa cinctis; peritheciis minutissimis, atris, confluentibus; sporulis atomisticis, 6 μ . longis.
Hab. in foliis Oleæ Europeæ, circa Montaud-lès-Miramas in Gallia (CASTAGNE). — Maculæ 1,5-5 mill. diam.
106. **Phyllosticta fraxinicola** Curr. Simpl. Sphær. n. 388. f. 148 (sub 106
Depazea). — Maculis subcircularibus v. irregularibus, fuscis, atromarginatis; peritheciis minutis, nigris; sporulis ellipticis v. sub-
 turbinatis v. subcymbiformibus, 5-7,5 μ . longis.
Hab. in foliis Fraxini, in Germania et Gallia.
107. **Phyllosticta Ligustri** Sacc. Mich. I. p. 134. — Maculis are- 107
 scendo expallentibus, variis fusco-cinctis; peritheciis epiphyllis, lenticularibus, pertusis, 60 μ . diam.; sporulis ovoideis, 6-7 \approx 2½-3, 2-guttulatis, hyalinis, initio basidiis æquilongis suffultis.
Hab. in foliis Ligustri vulgaris, Selva, Susegana in Italia boreali et Coimbra in Lusitania. — *Depazea Ligustri* Desm. est = *Septoria Ligustri* Desm., ergo non *Phyllosticta* mea. Utra-

- que verisimiliter sistit spermogonia *Sphærellæ Ligustri* (Desm.) Fuck.
108. **Phyllosticta ligustrina** Sacc. et Speg. Mich. I. p. 160. — Maculis 108
versiformibus, arescendo sordide lutescentibus; peritheciis gregariis, olivaceo-fuscis, lenticularibus, 150-200 μ . diam., pertusis; sporulis globoso-ovoideis, 4-6 = 3-4, pallide olivaceis.
Hab. in foliis Ligustri vulgaris, Costa (Vittorio) in Italia boreali.
109. **Phyllosticta Syringæ** West. Not. II. 23. Kickx. Flandr. I. 417. 109
— Maculis amplis arescendo ochraceis, irregularibus, sæpius fusco-marginatis; peritheciis punctiformibus epiphyllis, lenticularibus, pertusis; sporulis ovato-oblongis, 8 = 3, 2-guttulatis, hyalinis.
Hab. in foliis Syringæ vulgaris, in Italia, Gallia, Belgio, Lusitania. — Cl. Oudemans hanc ut formam *Phyll. destructivæ* Desm. considerat, sed hæc secundum Desm. sporulas 1-2-septatas, 10 = 5 gerit.
110. **Phyllosticta jasminica** Thüm. Contr. Mycol. Lusit. — Peri- 110
theeciis epiphyllis, minutis, sparsis, emerso-punctiformibus, nigris, in macula arescendo luteo-albida, irregulari, plerumque marginali, late zonata, fusco-purpureo cincta, subtus tota fusca, magna; sporulis paucis, minutissimis, simplicibus, ellipsoideis, enucleatis, hyalinis, 2,5-3 = 1,5.
Hab. in foliis vivis Jasmini azorici, Coimbra in Lusitania, in horto botanico (MOLLER). — *Phyllosticta Jasmini* Sacc. in Michelia I. pag. 138 differt maculis diversis, sporulis majoribus et biguttulatis.
111. **Phyllosticta Jasmini** Sacc. Mich. I. p. 138. — Maculis subcircula- 111
ribus, arescendo candidis, tenuiter ochraceo-marginatis; peritheciis punctiformibus, lenticularibus, sparsis; sporulis oblongis, utrinque acutiusculis, 5 = 3, obsolete 2-guttulatis, hyalinis.
Hab. in foliis Jasmini officinalis, Conegliano in Ital. bor.
112. **Phyllosticta goritiensis** Sacc. *Depazea Phillyreæ* Thüm. Contr. 112
F. Litor. n. 182, t. I. f. 21. — Peritheciis amphigenis, sparsis, prominulis, medio emersis, globosis, nigris in macula exarida, dilacerata, plus minusve orbiculata, fusco marginata; sporulis numerosissimis, cylindræis, rectis, utrinque rotundato-obtusatis, simplicibus, hyalinis, 3-4 = 1-1,5.
Hab. ad folia viva Phillyreæ angustifoliæ, Gorizia in Illyrio italico. — A *Depazea phillyreæcola* Rabh. in Klotzsch, Herb. mycol. n. 1646 diversa videtur, teste Thümen.

113. **Phyllosticta Phillyreæ** Sacc. Mich. I. p. 531. — Maculis epiphyllis, 113
variis, griseo-ochraceis, rufo-marginatis; peritheciis punctiformi-
bus, hemisphæricis, 80-100 μ . diam., pertusis; sporulis oblongo-
fusoideis, 6-7 \times 3, 2-guttulatis, hyalinis.
Hab. in foliis Phillyreæ latifoliæ et mediæ, in Illyrio,
in Italia boreali et Gallia.
114. **Phyllosticta phillyricola** Rabenh. Herb. Myc. 1646, Bot. Zeit. 114
1852, p. 287. — Peritheciis.....; sporulis continuis, hyalinis.
Hab. in foliis Phillyreæ.
115. **Phyllosticta phillyrina** Thüm. Contr. Myc. Lusitan. — Peri- 115
theciis epiphyllis, pro ratione magnis, solitariis, hemisphærico-
exsertis, nitido-atris in macula plus minusve orbiculata, parva,
ochracea, subexarida, late sordide fusco-marginata; sporulis longe
ellipticis, utrinque subrotundatis, enucleatis, hyalinis, 4-5 \times 2-2,5.
Hab. ad folia viva et languida Phillyreæ obliquæ, Serra,
da Louzã 700 met. alt. in Lusitania (MOLLER).
116. **Phyllosticta Rhododendri** West. Bull. Ac. Bruxell. I. 851, p. 116
399. — Maculis rubiginoso-fuscis, ad marginem foliorum plerum-
que sitis; peritheciis epiphyllis, prominulis, atris; sporulis cylin-
draceo-ovoideis, 3-4-guttulatis; cirris incarnatis.
Hab. in foliis languidis Rhododendri arborei culti in Bel-
gio et in ditione Goritiensi.
117. **Phyllosticta Saccardoï** Thüm. Contr. Myc. Lusit. Ph. Rhododen- 117
dri Sacc. in Mich. I. pag. 531 non Ph. Rhododendri Westd. —
Maculis epiphyllis, variis, fusco-marginatis; peritheciis paucis, pun-
ctiformibus, subvelatis, subhemisphæricis, 50 μ . diam., pertusis,
contextu fulvo-ochraceo; sporulis perexiguis, oblongo-cylindræis,
4 \times 1, hyalinis.
Hab. in foliis Rhododendri pontici, in Gallia et Lusitania.
118. **Phyllosticta Arbuti** (Desm.) Sacc. Mich. II. p. 87. *Cheilaria Ar-* 118
buti Desm, 13 Not. p. 68. — Maculis minutis fuligineis; perithe-
ciis epiphyllis, erumpentibus, minutissimis, confertis, atris, nitidis,
rotundato-oblongis, rima (genuina?) dehiscentibus; sporulis ovoi-
deis, minutissimis, 5 μ . long., 2-guttulatis, hyalinis.
Hab. in foliis emortuis Arbuti Unedonis, in Gallia.
119. **Phyllosticta microsticta** Dur. et Mont. Fl. Alg. I. 612, Mont. 119
Syll. p. 279. — Epiphylla; maculis parvis fuscescentibus, tandem
epidermide decolori albis, ambitu atro-fuscis, confluentibus; peri-
theciis paucis, minimis, tandem late apertis; ore lacero; sporulis
atomisticis.

- Hab.* in foliis vivis Arbuti Unedonis, Alger (DURIEU); in foliis ramulisque ejusdem in Lusitania (MOLLER).
120. **Phyllosticta Andromedæ** West. in Kickx Crypt. Fl. I. 416. — 120
Peritheciis epiphyllis, nigris, nitidis, minutis, in maculis subcircularibus, brunneis, v. brunneo-cinereis, purpureo-marginatis; sporulis ovoideis, hyalinis, biguttulatis; cirris albidis.
Hab. in foliis Andromedæ cassinefoliæ, in hortis belgicis.
121. **Phyllosticta Garryæ** Cooke et Harck. Grev. IX. pag. 84. — 121
Epiphylla; maculis ellipticis, griseis, purpureo-cinctis; peritheciis convexis, prominulis, atris, subnitidis; sporulis arcte ellipticis, hyalinis, continuis, 10-12 = 2-2,5.
Hab. in foliis Garryæ ellipticæ, in Amer. boreali.
122. **Phyllosticta flavidula** Sacc. Mich. I. p. 531. — Maculis variis, are- 122
scendo expallentibus rufo-cinctis; peritheciis paucis velatis lenticularibus, 100 μ . diam., pertusis; sporulis ovoideis, 2 $\frac{1}{2}$ -3 = 1, e hyalino luteolis, coacervatis melleis.
Hab. in foliis Callistemonis cultæ in hortis Saintes in Gallia (BRUNAUD).
123. **Phyllosticta clethricola** Ell. et Mart. Amer. Nat. 1882, p. 1002. 123
Peritheciis amphigenis erumpentibus; maculis pallide fuscis, 2-10 mill. diam.; sporulis subhyalinis, guttulatis, ovoideis, 9 = 6.
Hab. in foliis Clethræ alnifoliæ, Newfield New Jersey in America boreali.
124. **Phyllosticta limbalis** Pers. sec. Wallr. Crypt. Germ. n. 3706. 124
Depazea buxicola Fr. S. M. II. 528. — Maculis oblongis candidis, fusco-marginatis, plerumque prope foliorum marginem; peritheciis raris, globosis, nigricantibus; sporulis oblongis, hyalinis, 3-4-guttulatis, ampliusculis.
Hab. in foliis vivis Buxi sempervirentis, in Germania, Belgio, Gallia, Britannia, Italia.
125. **Phyllosticta buxina** Sacc. Mich. I. p. 137. — Maculis vagis, are- 125
scendo expallentibus; peritheciis sparsis, punctiformibus; sporulis oblongo-ellipsoideis, minutissimis, 4 = 1 $\frac{1}{2}$, utrinque 1-guttulatis, hyalinis.
Hab. in foliis Buxi sempervirentis, Selva in Ital. bor.
126. **Phyllosticta Germanica** Speg. Nov. Add. n. 151. — Peritheciis 126
globosis, atro-olivaceis, parenchymati immersis minutis, globoso-lenticularibus, 100 μ . diam., maculis fuliginosis insidentibus, contextu laxo membranaceo, dilute olivaceo, ostiolo parvo donatis; sporulis ellipticis vel ovoideis, chorinis, 4-6 = 2-3, eguttulatis.

Hab. ad folia languida Myricariæ Germanicæ, in alveo Plavis in Ital. bor., socia *Pestalozzia funerea* Desm. var. *discolore* Speg.

127. **Phyllosticta Haynaldi** Roum. Sacc. et Mich. II. p. 342. — Maculis 127
epiphyllis, vagis, vinoso-roseis; peritheciis dense gregariis, lenticularibus, $\frac{1}{8}$ mill. diam., poro pertusis, epidermide velatis; sporulis ovoideis, $5 \approx 2$, minutissime biguttulatis, hyalinis.

Hab. in foliis Ilicis Aquifolii cultæ, Bagnères de Luchon in Gallia.

128. **Phyllosticta cistina** Thüm. Contr. Myc. Lusit. n. 367. *Phyl-* 128
losticta Cisti Roum. F. Gall. n. 236. — Peritheciis minutis, vix visibilibus, epiphyllis, exacte globosis, semiimmersis, atris in macula valde minuta, orbiculata, primo purpureo-nigra, demum exarescente cinerea, purpureo-cincta; sporulis minutissimis, ovoideoglobosis, simplicibus, enucleatis, achrois, $4 \approx 1,5$.

Hab. in foliis vivis languidisve Cisti salvifolii, crispi et laurifolii, in Gallia, Lusitania et Græcia.

129. **Phyllosticta Cameliæ** West. in Kickx Fl. Crypt. Fl. I. p. 416. 129
— Peritheciis epiphyllis, minutis, nigris, globosis, sparsis; maculis subcircularibus, fusciscentibus, dein expallentibus crasse rufo-marginatis; sporulis ovoideis, hyalinis, 2-3-guttulatis; cirris albidis.

Hab. in foliis Cameliæ japonicæ, in hortis Belgii et Galliæ.

130. **Phyllosticta Magnoliæ** Sacc. Mich. I. p. 139. — Maculis plerum- 130
que epiphyllis, versiformibus, arescendo dealbatis, non marginatis; peritheciis punctiformibus, lenticularibus, raris; sporulis oblongis, utrinque rotundatis, $4 \approx 1\frac{1}{2}-2$, hyalinis.

Hab. in foliis Magnoliæ grandifloræ, in horto Patavino in Ital. bor. — ***Ph. Cookei** Sacc. [*Ph. Magnoliæ* Cooke Grev. IX. p. 94, vix Sacc.]. A typo differt sporulis multo amplioribus, nempe $8-12 \approx 3-4,5$. In foliis Magnoliæ grandifloræ, in horto Kew in Britannia.

131. **Phyllosticta Mahoniæ** Sacc. et Speg. Mich. I. 153. — Maculis 131
obsoletis; peritheciis sparsis, lenticularibus, punctiformibus, 200μ . diam., poro angusto pertusis, ochraceo-fuliginis; sporulis ellipsoideis vel subrotundis, utrinque obtusiusculis, $4-6 \approx 3-4$, hyalinis.

Hab. in foliis dejectis Mahoniæ Aquifolii, Conegliano, Gorizia in Italia bor., et in Gallia.

132. **Phyllosticta japonica** Thüm. Contr. Myc. Lusit. — Peritheciis 132
numerosis, epiphyllis, gregariis, minutis, punctiformibus, conico

emersis, longe diu tectis in macula magna arescendo-albida v. dilute luteo-alba, distincte fuscidulo-marginata, subtus sordide ochracea; sporulis numerosis, ellipsoideis, utrinque rotundatis, grosse 1-nucleatis, 4-4,5 = 2,5-3, hyalinis.

Hab. in foliis subvivi*s* Mahoniæ japonicæ, Coimbra in Lusitania, in horto botanico (MOLLER). — *Ph. Mahoniæ* Sacc. et Speg. in Mich. I. p. 153 valde differt defectu macularum et sporularum magnitudine!

133. **Phyllosticta Westendorpii** Thüm. Pilzfl. Sibir. n. 804, *Ph. Ber-* 133

beridis West. in Kickx Fl. d. Flandres, I. p. 419, non Rabh. — Maculis angulosis, albidis, sanguineo-marginatis; peritheciis epiphyllis, nigris, punctiformibus, paucis; sporulis ovoideis, 2-3-guttulatis, hyalinis, 9-11 = 5-5,5.

Hab. in foliis Berberidis vulgaris et altaicæ, in Belgio et Sibiria.

134. **Phyllosticta Berberidis** Rabh. in Herb. myc. n. 1865. — Ma- 134

culis sinuosis arescendo griseis dein dealbatis; peritheciis epiphyllis, punctiformibus lenticularibus; sporulis ovoideis, 4-5 = 3, hyalinis.

Hab. in foliis Berberidis vulgaris, in Germania, Austria, Gallia et Italia boreali. — Species homonyma Westendorpii, Kickx Flandr. I. 419, aliena videtur, nam ejusdem sporulæ majores sunt, nempe 10 = 5 atque 2-3-guttulatæ.

135. **Phyllosticta Laureolæ** Desm. 14 Not. pag. 33. — Maculis am- 135

phigenis, helvolis, paucis, subrotundatis v. irregularibus; peritheciis epiphyllis, raro hypophyllis, numerosis, approximatis, nigris, nitidis, innato-prominulis, convexis, dein umbilicatis, poro pertusis.

Hab. in foliis languescentibus Daphnes Laureolæ, in Gallia et Lusitania. — Sporulæ, teste Thümen, continuæ, ellipsoideæ, enucleatæ, hyalinæ, 6 = 4-4,3.

136. **Phyllosticta Nerii** West. Exs. n. 963, Kickx F. Flandr. I. 148. 136

— Maculis subcircularibus angulosisve, candidis, zona fusca elevata cinctis; peritheciis amphigenis, innatis, dein prominulis, sparsis, atris; sporulis hyalinis, ovoideo-oblongis, 2-guttulatis (« 15-18 = 5-6, nubilosus vel 1-guttatis »).

Hab. in foliis Nerii Oleandri, in Italia, Gallia, Belgio et Lusitania. — *Dothidea circinans* Roum. F. Gall. 123 huc forte spectat, sed exemplaria visa nimis imperfecta.

137. **Phyllosticta Opuntia** Sacc. et Speg. Mich. I. p. 156. — Maculis 137

variis, arescendo candidis, margine subelevato lutescenti cinctis;

peritheciis gregariis, lenticularibus, 150 μ . diam., pertusis, laxe cellulosis fuligineis; sporulis ovoideis, 5-8 \approx 3-3 $\frac{1}{2}$, curvulis rectisve, dilute olivaceis.

Hab. in cladodiis *Opuntiaë Ficus indicæ*, Conegliano in Italia boreali.

138. **Phyllosticta Paulowniæ** Sacc. Mich. I. p. 143. — Maculis variis 138
sinuosis, confluentibusque, arescendo ochraceis, saturatius marginatis; peritheciis epiphyllis, punctiformibus, gregariis, lenticularibus; sporulis oblongis, minutissimis, 3 \approx 1 $\frac{1}{2}$, hyalinis.

Hab. in foliis *Paulowniæ imperialis*, Vittorio in Italia bor., et in Gallia.

139. **Phyllosticta Forsythiæ** Sacc. Fung. ital. 87. Mich. n. I. p. 93. — 139
Maculis subcircularibus, arescendo ochraceis, vix marginatis; peritheciis epiphyllis, sæpe concentricè dispositis, lenticularibus, pertusis, 150-180 μ . diam., initio velatis, fulvis; sporulis ovoideis, 5-7 \approx 2 $\frac{1}{2}$ -3, 2-guttulatis, hyalinis.

Hab. in foliis *Forsythiæ suspensæ*, in horto botanico Patavino in Italia boreali.

140. **Phyllosticta Weigeliæ** Sacc. et Speg. Mich. I. p. 139. — Maculis 140
variis, arescendo candidis; peritheciis sparsis, lenticularibus, 150-200 μ . diam., pertusis, contextu minuto parenchymatico, atro; sporulis oblongo-ellipsoideis inæqualibus, 2-guttulatis, 6-8 \approx 3, hyalinis.

Hab. in foliis *Weigeliæ roseæ*, Conegliano in Ital. bor., et in Gallia.

141. **Phyllosticta Tiliæ** Sacc. et Speg. Mich. I. p. 158. — Maculis 141
versiformibus arescendo dilute ochraceis, fuligineo-marginatis; peritheciis sparsis, lenticularibus, 120 μ . diam., pertusis, contextu parenchymatico laxo, subolivaceo; sporulis ellipsoideis, utrinque obtusis, 5-6 \approx 3, dilute chlorinis.

Hab. in foliis *Tiliæ europææ*, Conegliano in Ital. bor.

142. **Phyllosticta Syriaca** Sacc. Mich. I. p. 136. — Maculis sinuosis va- 142
riis arescendo dealbatis late fusco-cinctis; peritheciis remotiusculis, punctiformibus, lenticularibus, 50 μ . diam., pertusis; sporulis ovoideis v. subellipsoideis, 7 \approx 3-4, hyalinis.

Hab. in foliis *Hibisci syriaci*, Vittorio in Italia bor. et Coimbra in Lusitania. — A *Phoma maculari* Desm. prorsus diversa.

143. **Phyllosticta Schini** Thüm. Contr. Myc. Lusitan. — Peritheciis 143
sparsis, solitariis, epiphyllis, hemisphærico-emersis, nigris, mediis in macula ochraceo-fusca, magna, irregulari, zona obscuriore cin-

cta; sporulis ellipsoideis, utrinque rotundatis, continuis, non guttulis, achrois, $3 \approx 1$.

Hab. in foliis vivis Schini Molle, Coimbra in Lusitania, in horto botanico (MOLLER).

144. **Phyllosticta Henriquesii** Thüm. Contr. Myc. Lusit. — Peri- 144
theciis epiphyllis, submagnis, lenticulari-subhemisphæricis, emersis, sparsis, aterrimis, in macula orbiculari, arescendo albida, purpureo-cincta; sporulis ellipsoideis, continuis, utrinque acutato-rotundatis, uni- vel biguttulatis, achrois, $5-6 \approx 2,5-3$.

Hab. in foliis languidis Tecomæ radicans, Coimbra in Lusitania in horto botanico (MOLLER). — A *Phyllosticta Tecomæ* Sacc. in Mich. I. p. 148, macularum colore et sporularum magnitudine satis diversa.

145. **Phyllosticta erysiphoides** Sacc. Mich. I. p. 620. — Peritheciis 145
gregariis in pag. inf. dealbata, subinnatis, hemisphæricis, 110μ d., pertusis; sporulis oblongis, utrinque obtusis, $4-4,5 \approx 2,5$, hyalinis.

Hab. in foliis Tecomæ radicans, Saintes in Gallia (BRUNAUD). — Spermogonium *Sphærellæ erysiphoidis* Sacc.

146. **Phyllosticta Tecomæ** Sacc. Mich. I. p. 148. — Maculis versi- 146
formibus, arescendo fulvo-ochraceis; peritheciis sparsis lenticularibus, $90-100 \mu$ diam., pertusis, contextu laxiuscule fuligineo; sporulis oblongo-ovoideis $8 \approx 3-3\frac{1}{2}$, 2-guttulatis, hyalinis, basidiis æquilongis filiformibus fultis.

Hab. in foliis Tecomæ radicans, Vittorio in Italia bor., Coimbra in Lusitania.

147. **Phyllosticta Bignoniæ** West., Thüm. F. A. n. 1075, Mich. I. p. 147
137. — Maculis versiformibus, arescendo albido-griseis sæpe rufomarginatis; peritheciis punctiformibus, lenticularibus, $70-90 \mu$ d.; sporulis oblongo-ovoideis, $5-7 \approx 2\frac{1}{2}-3\frac{1}{2}$, 2-guttulatis, hyalinis.

Hab. in foliis Catalpæ syringifoliæ, Conegliano in Italia boreali et in Belgio. — Sec. West. sporulæ $10 \approx 3,3$.

148. **Phyllosticta Tweediana** Penz. et Sacc. F. Mort. n. 15, tab. IV. 148
fig. 4. — Peritheciis laxè congregatis, minimis, punctiformibus, $120-130 \mu$ diam., hypodermicis, dein prorumpentibus, atris, ostiolatis, sphæroideis, paullum compressis, tenuibus; sporulis breviter cylindræis, utrinque rotundatis, eguttulatis, $3-5,4 \mu$ long., $1,7-2 \mu$ crassis, hyalinis.

Hab. in capsulis Bignoniæ Tweedianaæ, Mortola in Italia boreali (O. PENZIG).

149. **Phyllosticta Sterculiæ** Winter Contr. Myc. Lus. n. 802. — Ma- 149

culis irregularibus, angulatis, pallide ochraceis, demum arescendocandicantibus, late et indeterminate violaceo cinctis; peritheciis raris, subglobosis, fuscis, epiphyllis, 60-65 μ . lat.; sporulis oblongis vel clavatis, medio interdum perparum constrictis, spurie uniseptatis, hyalinis, 8-9 \approx 3.

Hab. ad folia viva Sterculiæ heterophyllæ, in horto botanico Coimbra in Lusitania.

150. **Phyllosticta auriculata** Kalchb. et Cooke Grev. IX. p. 20. — 150
Epiphylla; maculis orbicularibus, pallidis, purpureo-cinctis; peritheciis punctiformibus, immersis, poro pertusis; sporulis ellipticis, continuis, hyalinis 5 μ . longis.

Hab. in foliis Buddlejæ auriculatæ, in Africa austr.

151. **Phyllosticta argyrea** Speg. Fung. Arg. Pug. II. 121. — Ma- 151
culis epiphyllis, latis, orbiculari-diformibus, candidissimis; peritheciis densiuscule sparsis, punctiformibus, 90-100 μ . diam., atris; sporulis ellipticis, simplicibus, hyalinis, 3-5 \approx 1-2.

Hab. in foliis languidis Elæagni arboreæ, in horto botanico Parco Julio in Argentina.

152. **Phyllosticta Cocculi** Thüm. in Rev. Mycol. — Peritheciis epi- 152
phyllis, sparsis, minutis, semiimmersis, punctiformi-conicis, atris in macula irregulari, arescendo-grisea, anguste nigro-fuscescente cincta, in pagina foliorum inferiore fusca; sporulis oblongis vel ellipsoideis, utrinque acutatulo-obtusis, simplicibus, achrois 10 \approx 3,5-4.

Hab. in foliis vivis languidisve Anamirtæ Cocculi, Canara in Ind. or. (DR. KECK).

153. **Phyllosticta Linocieræ** Thüm. in Roum. Rev. Mycol. — Peri- 153
theeciis epiphyllis, mediis, sparsis, hemisphæricis, punctiformibus semiimmersis, nitido-atris, in macula orbiculari, concavo-elevata, postremo centro immerso et dilabente, lacerata, arescendo-nivea, linea ferruginea anguste cincta; sporulis ellipticis, continuis, vertice rotundatis, basi subangustatis, achrois, 9-10 \approx 3,5-4,5.

Hab. in foliis vivis Linocieræ purpureæ (Chionanthi zeylanicæ Lin.), in insula Ceylon (THWAITES). — A *Sphæria Chionanthi* Berk. et Br. Fungi of Ceylon II. pag. 129 valde diversa.

154. **Phyllosticta Chionanthi** Thüm. in Mycoth. univers. n. 1489. 154
— Peritheciis epiphyllis, sparsis, primo longe diu tectis, demum perforantibus, hemisphærico-emersis, nigris, mediis in macula arescendo ochraceo-albida, valde irregulari, subtus ochracea, linea

rufo-fusco anguste marginata; sporulis ellipsoideis, utrinque rotundatis, simplicibus, enucleatis, hyalinis, $3,5-5,5 \approx 2-2,5$.

Hab. in foliis vivis Chionanthi virginicæ, in horto botanico Coimbra in Lusitania (MOLLER). — A *Phyllosticta Linocieræ* Thüm. in Revue mycologique II. 1880, p. 36 ad *Linocieræ zeylanicæ* Hook. (*Chionanthi zeylanici* Lin.) folia viva, sporulis dimidio minoribus valde diversa.

155. **Phyllosticta Azedarachis** Thüm. Contr. Micol. Litor. n. 221, t. I. 155 f. 24. — Peritheciis gregariis, minutis, prominulis, globosis, atris in macula exarida, irregulari, albo-lutescenti, fusco-marginata, epiphylla; sporulis ellipsoideis, utrinque rotundatis, sine nucleis, numerosissimis, hyalinis, $5 \approx 3$.

Hab. in foliis vivis Meliæ Azedarachis, Gorizia in Ital. bor.

156. **Phyllosticta Aucubæ** Sacc. et Speg. Mich. I. p. 153. — Maculis 156 obsoletis v. nullis; peritheciis gregariis subcuticularibus, punctiformibus, $80-90 \mu$. diam., prominulis, anguste pertusis; sporulis oblongis, utrinque obtusiusculis, $2\frac{1}{2}-3 \approx \frac{3}{4}-1$, hyalinis.

Hab. in foliis dejectis Aucubæ japonicæ, Conegliano in Italia bor. (SPEGAZZINI).

157. **Phyllosticta aucubicola** Sacc. Mich. II. p. 276. — Maculis vagis 157 amplis, arescendo expallentibus; peritheciis plerumque epiphyllis gregariis, punctiformibus, lenticularibus, 150μ . diam., pertusis; sporulis obovatis, $6 \approx 3-3\frac{1}{2}$, nubilosus, hyalinis.

Hab. in foliis languidis Aucubæ japonicæ, in horto Pata-vino — A *Phyll. Aucubæ* Sacc. et Speg. probe diversa.

158. **Phyllosticta Liriodendri** Thüm. Contr. Mic. Lit. n. 213, tab. I. 158 fig. 30. — Peritheciis epiphyllis, minutis, gregariis, semiimmersis, globosis, nigris in maculis parvis, orbiculatis, exaridis, griseis; sporulis minutis, ellipsoideis, utrinque rotundatis, simplicibus, enucleatis, numerosis, $5-6 \approx 3$, achrois.

Hab. in foliis vivis Liriodendri Tulipiferæ, Gorizia.

159. **Phyllosticta liriodendrica** Cooke Grev. XII. p. 26. (*Ph. Lirio-* 159 *dendri*). — Epiphylla; maculis orbicularibus, fuscis, albescens, fusco-limitatis; peritheciis paucis, punctiformibus, centro congregatis, atris; sporulis ellipticis, hyalinis, $6 \approx 2$.

Hab. in foliis Liriodendri, in Carolina Austr. (RAVENEL).

160. **Phyllosticta Ailanthi** Sacc. Mich. I. p. 148. — Maculis latiusculis, 160 irregularibus, arescendo pallide ochraceis, rufo-cinctis; peritheciis remotiusculis, punctiformibus e globoso lenticularibus $50-60 \mu$. d., pertusis, laxe cellulosis; sporulis oblongo-ovoideis, $7-10 \approx 4$, hyalinis.

Hab. in foliis Ailanthi glandulosæ, Selva in Italia bor.

161. **Phyllosticta destruens** Desm. Ann. S. N. 1847, p. 31. — Ma- 161
culis arescendo albicantibus; peritheciis punctiformibus, hemisphæ-
ricis, epiphyllis; sporulis ex oblongo ovoideis, $5 \approx 1\frac{3}{4}$ -2, hyalinis.

Hab. in foliis Celtidis australis, Pruni lusitanicæ, in Italia, Gallia, Austria, Lusitania. — Var. **Aceris platanoidis**: peritheciis lenticularibus, pertusis, 80-100 μ . diam.; sporulis $7 \approx 2$ -2,5, biguttatis, hyalinis.

162. **Phyllosticta juglandina** Sacc. Mich. I. p. 155. — Maculis vagis 162
arescendo dealbatis fusco-cinctis; peritheciis punctiformibus, lenticularibus; sporulis ovoideis, minutissimis, $4 \approx 2$, e hyalino olivaceis.

Hab. in foliis Juglandis regiæ, Vittorio in Italia boreali et Coimbra in Lusitania.

163. **Phyllosticta Juglandis** (DC.) Sacc. Mich. I. p. 135, *Xyloma Ju-* 163
glandis DC. — Maculis vagis arescendo dealbatis fusco-cinctis; peritheciis epiphyllis, sparsis, punctiformibus, lenticularibus, 80 μ . diam., pertusis; sporulis ovoideo-oblongis, $6-7 \approx 3-4$, minute 2-guttulatis, hyalinis.

Hab. in pag. sup. foliorum Juglandis regiæ languidorum, in Italia boreali, Austria et Gallia.

164. **Phyllosticta Pterocaryæ** Thüm. Contr. Fl. Myc. Lus. — Peri- 164
theciis epiphyllis, numerosis, minutis, gregarie densis, punctiformibus, atris in macula irregulari, sæpe marginali, arescendo griseo-ochracea, sordide fusco-cincta, subtus fuscidula; sporulis ellipsoideis, utrinque subacutato-rotundatis, enucleatis, hyalinis, $4,5-6 \approx 3,5-4$.

Hab. in foliis vivis Pterocaryæ caucasicæ, in horto botanico Coimbra in Lusitania (MOLLER).

165. **Phyllosticta alnigena** Thüm. Contr. Myc. Lus. n. 370. — Pe- 165
ritheciis hypophyllis, gregariis, in circulo sæpe dispositis, emersis, minutissimis, obscure griseis in macula arescendo ochraceo-fulva, orbiculari, concentrice zonata, magna; sporulis bacillaribus, rectis vel subarcuatis, utrinque rotundatis, continuis, hyalinis, $10 \approx 3$.

Hab. ad folia viva Alni cordifoliæ, Choupal prope Coimbra in Lusitania (MOLLER).

166. **Phyllosticta Coryli** West. in Bull. Ac. Belg. XIX, n. 9, Mich. 166
I. p. 138. — Maculis variis satis amplis, ochraceo-fuscis, dein sordide albicantibus; peritheciis lenticularibus, 100-150 μ . diam., pertusis, contextu parenchymatico luteo-fuligineo; sporulis ellipsoideis, $7-8 \approx 2-3\frac{1}{2}$, utrinque rotundatis, 2-guttulatis, hyalinis.

Hab. in foliis Coryli Avellanæ, in Belgio et Italia bor.

167. **Phyllosticta corylaria** Sacc. Mich. I. p. 153. — Maculis vagis, 167
sinuosis, arescendo pallide ochraceis, brunneo-marginatis; peritheciis remote sparsis, punctiformibus, hemisphæricis, prominulis, 80 μ . diam., pertusis, contextu minute celluloso; sporulis ovato-oblongis, 4-4½ \approx 2, dilute olivaceis.

Hab. in foliis Coryli Avellanæ, Selva in Italia bor. —
A *Cheilaria* (Labrella) *Coryli* Desm. toto cælo diversa.

168. **Phyllosticta carpinea** Sacc. Mich. I. p. 158. — Maculis subcircu- 168
laribus, sinuosisve majusculis, arescendo dilute ochraceis, brunneo-marginatis; peritheciis sparsis, punctiformibus, pertusis; sporulis e globoso ovoideis, 4-3, e hyalino olivaceis.

Hab. in foliis Carpini Betuli et C. Duinensis, in Italia boreali.

169. **Phyllosticta Carpini** Schulz. et Sacc. Micr. Slav. n. 54, Schulz. 169
Ill. Fung. Slav. n. 8, 9. — Peritheciis gregariis, hypophyllis, epidermide tumidula tectis, globosis, vix pertusis, 60-100 μ . d.; sporulis oblongis, utrinque rotundatis, 5-6 μ . longis, hyalinis.

Hab. in foliis Carpini Betuli, socia *Melampsoreæ*, prope Vinkovce. — A *Phyll. carpinea* differt peritheciis prominulis; sporulis oblongis nec subglobosis, prorsus hyalinis.

170. **Phyllosticta betulina** Sacc. Mich. I. p. 154. — Maculis nullis; 170
peritheciis epiphyllis hinc inde dense maculiformiter aggregatis, innato-prominulis, globoso-lenticularibus, atris; sporulis botuliformibus minutis, 4-6 \approx 1-1¼. curvulis, hyalinis.

Hab. in foliis Betulæ albæ, socia *Sphærella maculiformi* f. *Betulæ*, cujus videtur spermogonium, Conegliano in Italia boreali, et in Gallia.

171. **Phyllosticta sycophila** Thüm. Contr. F. Litor. n. 212, fig. 26. 171
— Peritheciis epiphyllis, raro amphigenis, sparsis, erumpentibus, globoso-conicis, ostiolatis, plus minusve parvulis, atris in maculis maximis, irregularibus, exaridis, albicantibus; sporulis minutis, ovatis vel cylindrico-ovatis, utrinque rotundatis, simplicibus, binucleatis, hyalinis, 3-4 \approx 2.

Hab. ad folia viva languidave Ficus Caricæ, in ditone Goriensi nec non in Gallia et Lusitania. — Specimina gallica præbuerunt sporulas 5-6 \approx 4.

172. **Phyllosticta Platani** Sacc. et Speg. Mich. I. p. 153. — Maculis 172
obsoletis; peritheciis sparsis, punctiformibus, lenticularibus, luteo-

lis; sporulis ovoideo-oblongis, $5-6 \approx 1-1\frac{1}{2}$, minute 2-guttulatis, nubilosus hyalinis.

Hab. in pag. infer. foliorum Platani orientalis, Conegliano in Italia boreali.

173. **Phyllosticta ulmicola** Sacc. Mich. I. p. 158. — Maculis vagis, 173
majusculis, arescendo ochraceis, margine concolori; peritheciis gregariis, punctiformibus, 70-80 diam., lenticularibus, pertusis; sporulis oblongo-ellipsoideis, $6 \approx 3$, e hyalino olivaceis.

Hab. in foliis Ulmi campestris, Selva in Italia bor. — A *Phyll. Ulmi* West. Fl. Batav. Fung. 99 differt maculis ochraceis nec griseis, sporulisque minoribus (nec $10 \approx 5$) pallide coloratis nec hyalinis.

174. **Phyllosticta Ulmi** West. Bull. Ac. Belg. II. Ser. XII. vol. n. 7. 174
— Maculis amphigenis, subcircularibus, sparsis, confluentibusque, cinerascentibus, immarginatis, subinde sterilibus; peritheciis raris, perexiguis, sparsis, pertusis; sporulis ovoideis, 1-2-guttulatis, hyalinis, $10 \approx 5$.

Hab. in foliis emortuis Ulmorum, Louvain in Belgio (E. MARTENS).

175. **Phyllosticta populea** Sacc. Mich. I. p. 135. — Maculis irregu- 175
laribus, sinuosis, arescendo candicantibus, fusco-marginatis; peritheciis remotis, punctiformibus, lenticularibus, prominulis, pertusis; sporulis breve cylindræis, $3\frac{1}{2} \approx 1\frac{1}{2}$, quandoque medio substrictis sed continuis, utrinque rotundatis et minute 1-guttulatis, hyalinis.

Hab. in pag. super. foliorum Populi albæ, Covolo in Italia boreali.

176. **Phyllosticta populina** Sacc. Mich. I. 155, *Depazea populina* 176
Sacc. Myc. Ven. 193, an Fuck. — Maculis angulosis, arescendo candidis, nigromarginatis; peritheciis punctiformibus, pertusis; sporulis ellipsoideis vel ovoideis, $6 \approx 3$, e hyalino olivaceis.

Hab. in pag. sup. foliorum Populi nigræ, socia *Septoria Populi* Desm., Selva in Ital. bor. — Quo spectent *Phyll. populina* Pers. et *Phyll. populnea* Desm. (in Oudem. Mat. Neerl. II, 23) prorsus ignoro.

177. **Phyllosticta Populorum** Sacc. et Roum. Mich. II. p. 620. — Pe- 177
ritheciis epiphyllis in partibus adhuc vivis gregariis, tectis, lenticularibus, 80 μ . diam., late pertusis, contextu laxo celluloso, subochraceo; sporulis oblongis, sæpe curvulis, $6-7 \approx 3$, 2-guttatis, hyalinis.

- Hab.* in foliis Populi balsamiferæ, Malmedy in Gallia, et in Germania.
178. **Phyllosticta Alcides** Sacc. Mich. I. pag. 135. — Maculis sinuo- 178
sis, arescendo albidis, fusco-cinctis; peritheciis sparsis, punctiformibus; sporulis ovoideis, utrinque obtuse subattenuatis, 1-guttulatisque, $5 \approx 3$, hyalinis.
Hab. in pag. sup. foliorum Populi albæ, Covolo in Ital. bor. 179
179. **Phyllosticta osteospora** Sacc. Mich. I. 531. — Maculis rufescen-
tibus variis v. obsoletis; peritheciis hinc inde aggregatis, tectis, globulosis, 80-90 μ . diam., pertusis; sporulis bacillaribus, 6-7 \approx 1, rectis, utrinque incrassatis (humeriformibus), hyalinis.
Hab. in foliis Populi nigræ, Fraxini, Mori et Rhamni, in Italia et Gallia.
180. **Phyllosticta bacteriiformis** (Pass.) Sacc. *Ascochyta bacteriiformis* 180
Pass. in Myc. univ. n. 994. — Sporulis bacillaribus, tenuissimis, ad apices leviter incrassatis, hyalinis.
Hab. in foliis elapsis Populi nigræ, Vigheffio in Ital. bor.
181. **Phyllosticta globulosa** Thüm. Contr. Fl. mic. Lit. pag. 324. — 181
Peritheciis epiphyllis, sparsis, parvulis, hemisphærico-emersis, nigris in macula irregulari, arescendo sordide griseo-albida, anguste sed distincte linea rufa marginata, postremo dilacerata; sporulis subglobosis vel ovato-globosis vel fere guttulæformibus, grosse uni-binucleatis, simplicibus, hyalinis, 6-9 μ . diam.
Hab. ad folia viva Quercus pedunculatæ, Parenzo in Istria.
182. **Phyllosticta Quercus** Sacc. et Speg. Mich. I. p. 138. — Maculis 182
variis, subrotundisve, arescendo albicantibus; peritheciis punctiformibus, lenticularibus, 200 μ . diam., latiuscule pertusis, olivaceo-fuligineis; sporulis ellipsoideis, rectis curvulisve, 7-9 \approx 2 $\frac{1}{2}$ -4, obsolete 1-2-guttulatis, hyalinis.
Hab. in foliis languidis quercinis, Susegana in Italia boreali, et in Gallia (SPEGAZZINI).
183. **Phyllosticta vesicatoria** Thüm. F. Americ. n. 16, in Flora, 183
1878. — Peritheciis epiphyllis, sparsis, globosis, semiimmersis, mediis, atris, ostiolatis, in macula magna, exarida, vesiculosa, girseo-fusca, purpureo-limitata; sporulis minutissimis, ellipsoideo-cylindricis, utrinque rotundatis, rectis, hyalinis, simplicibus, diaphanis, 2,5 \approx 1,5.
Hab. ad folia viva languidave Quercus cineræ, Aiken in Amer. bor. (H. W. RAVENEL).

184. **Phyllosticta ilicina** Sacc. Mich. I. p. 136. — Maculis vagis, pallidis, 184
exaridis, obsolete marginatis; peritheciis lenticularibus, prominulis,
60-70 μ . diam., pertusis, remotis; sporulis ovoideo-oblongis, 8-
10 \approx 3 $\frac{1}{2}$ -4, 2-guttulatis, hyalinis.

Hab. in foliis *Quercus Ilicis*, in Ital. bor., Austria et Lusitania.

185. **Phyllosticta phomiformis** Sacc. Mich. I. p. 573. — Maculis vagis, 185
ochraceis; peritheciis laxè gregariis, globoso-lenticularibus, per-
tusis, 130-150 μ . diam., solidiusculis, nigris; sporulis oblongis,
utrinque acutiusculis, 20-22 \approx 8-10, granulosis, hyalinis; basidiis
brevissimis, sursum acutatis.

Hab. in foliis *Quercus albæ*, in Pennsylvania (Doct. G.
MARTIN).

186. **Phyllosticta Quercus-Ilicis** Sacc. Mich. I. p. 155. — Maculis epi- 186
phyllis, subrotundo-sinuosis, arescendo candicantibus, linea atro-
rufa distinctè marginatis; peritheciis gregariis, punctiformibus, len-
ticularibus, epidermide velatis; sporulis ellipsoideo-oblongis, 5 \approx 4,
luteolis.

Hab. in foliis *Quercus Ilicis*, in horto Boboli Florentiæ
in Italia boreali. — A *Phyll. ilicina* Sacc. statim distinguenda.

187. **Phyllosticta querneæ** Thüm. F. Austr. n. 81. — Maculis variis, 187
irregularibus vel subsinuosis, arescendo griseo-ochraceis, anguste
fusco marginatis, cito dilaceratis et exesis; peritheciis sparsis, epi-
phyllis, conico-emersis, parvis, nigris; sporulis ellipticis vel ovoi-
deis, utrinque rotundatis, enucleatis, pallidissime griseis, 3,5-5 \approx 2,5.

Hab. ad folia viva *Quercus pubescentis*, Kalksburg in
Austria (WIESBAUR). — A *Phyllosticta Quercus* Sacc. Mich. I.
p. 138 valde diversa macularum forma et sporularum magnitudine.

188. **Phyllosticta Quercus-rubræ** W. R. Ger. Bull. Torr. 1875, p. 78. 188
— Maculis paucis subcircularibus v. irregularibus, albidis, rubido-
marginatis; peritheciis epiphyllis, numerosis, minutis, globosis, ni-
gris, in centro maculæ congestis; sporulis perexiguis ovoideis.

Hab. in foliis *Quercus rubræ*, Poughkeepsie in Amer. bor.

189. **Phyllosticta maculiformis** Sacc. Mich. II. p. 538. — Perithe- 189
ciis hypophyllis, hinc inde in greges minutos, atros, maculiformes
junctis, globoso-depressis, pertusis, 80-100 μ . diam.; sporulis cy-
lindræis, curvulis, 4 \approx 1, hyalinis.

Hab. in foliis languidis v. emortuis *Castaneæ vescæ*, in
montanis Tridentinis (BRESADOLA). — Spermogonium videtur *Sphæ-
rellæ maculiformis*. Huc verisimiliter spectat *Sphæria* (*Sphærc-
psis*) *maculiformis* Curr. Simpl. Sphær. pag. 332.

190. **Phyllosticta Carissæ** Kalch. et Cooke Grev. IX. p. 20. — Epi- 190
phylla; maculis suborbicularibus, pallide fuscis, brunneo-cinctis;
peritheciis punctiformibus, papillatis, immersis; sporulis arcte elli-
pticis, hyalinis, 6 μ . longis.

Hab. in foliis Carissæ Arduinæ, in Africa meridionali.

191. **Phyllosticta Nyssæ** Cooke Grev. XII. pag. 26. — Epiphylla; 191
maculis pallidis, irregularibus, magnis, purpureo-cinctis; perithe-
ciis minutissimis, punctiformibus, atris; sporulis subellipticis, hya-
linis, 3,5 = 1,5 μ .

Hab. in foliis Nyssæ capitatae, Darien in Georgia (RA-
VENEL).

192. **Phyllosticta Stigmaphylli** Speg. F. Arg. Pug. IV. n. 273. — 192
Maculis subindeterminatis, orbicularibus, 3-5 mill. diam., centro
palescentibus, peripherice fulvo-fuscescentibus, concentrice rugu-
losis; peritheciis epiphyllis, subperiphericis, innato-prominulis, he-
misphæricis, 80-90 μ . diam., membranaceis, contextu indistincte
parenchymatico; sporulis ellipticis, utrinque obtusiusculis, rectis
v. vix inæquilateralibus, 8-11 = 3, rarissime medio 1-pseudosepta-
tis, hyalinis.

Hab. in foliis vivis Stigmaphylli litoralis, in sepibus,
Boca del Riachuelo in Argentina.

193. **Phyllosticta marmorata** Cooke Grev. IX. p. 13. — Maculis ni- 193
veis, numerosissimis, hinc illinc confluentibus; peritheciis paucis, 1-
2, semiimmersis, punctiformibus, brunneis; sporulis ellipticis, hya-
linis, 5 μ . long.

Hab. in foliis Malloti Philippinensis, Saharumpore in
India (DUTHIE).

194. **Phyllosticta Napoleoneæ** Thüm. Contr. Fl. myc. Lusit. — Pe- 194
ritheciis epi- raro etiam hypophyllis, gregariis, submagnis, semi-
immersis, conoideis, atris sæpe a Cladosporio obductis, in macu-
la irregulari, exarida, sordide albescenti, magna, anguste sed di-
stinctissime fusco-cincta, in pagina inferiore folii sordide ochra-
ceo-fusca; sporulis ellipticis, simplicibus, utrinque rotundatis, a-
chrois vel dilute cinerescentibus, 4,5 = 3.

Hab. ad folia viva Napoleoneæ imperialis, Coimbra in
Lusitania, in caldariis horti botanici (MOLLER).

195. **Phyllosticta bonariensis** Speg. F. Arg. Pug. I. 189. — Maculis 195
orbicularibus, determinatis, 3-6 mill., majusculis, subaridis, melleo-
palescentibus, areola exilissima purpurascente cinctis; peritheciis
sparsis vel laxè gregariis, minutis, 90-100 μ . diam., lenticularibus,

membranaceis, contextu parenchymatico, fuligineo, ostiolo minuto donatis; sporulis ellipsoideis vel ovoideis, 5-8 \approx 3-4, hyalinis.

Hab. ad folia viva vel languida *Nectandrae* speciei, ultra el Riachuelo in Argentina.

196. **Phyllosticta Heteromeles** Cooke et Harkn. Grev. IX. p. 84. — 196

Epiphylla; maculis pallidis, orbicularibus vel confluentibus, nigro-limitatis; peritheciis convexis, atris; sporulis ellipticis, hyalinis, continuis, 8 \approx 2.

Hab. in foliis *Heteromeles*, in America boreali.

II. In plantis dicotyledoneis herbaceis.

197. **Phyllosticta Ranuncolorum** Sacc. et Speg. Mich. I. p. 150. — 197

Maculis vagis, fuliginis; peritheciis hemisphærico-lenticularibus, prominulis, pertusis; sporulis ovoideis, minutis, 5-6 \approx 3-3 $\frac{1}{2}$, hyalinis.

Hab. in foliis *Ranunculi* repentis, in isdem maculis, quibus primitus insederat *Didymaria Ungerii* Corda, Conegliano in Ital. bor. (SPEGAZZINI).

198. **Phyllosticta Ranunculi** (Fuck.) Sacc. *Ascochyta Ranunculi* Fuck. 198

Symb. myc. pag. 38. — Peritheciis gregariis, in macula exarida, minutis, conicis, aterrimis; sporulis minutissimis, globosis.

Hab. in foliis vivis *Ranunculi* acris, Æstrich in Germania.

199. **Phyllosticta Thalictri** West. Bull. Ac. Belg. II. Ser. XII. vol. 199

n. 7. — Maculis epiphyllis, angulosis, irregularibus, internerviis, initio fuscis, dein cinerescentibus, saturatius marginatis; peritheciis sparsis, atris, pertusis; sporulis ovoideis, hyalinis, 1-2-guttulatis, 10 \approx 5.

Hab. in foliis *Thalictri* flavi, Namur in Belgio (BELLYNCK).

200. **Phyllosticta Pæoniæ** Sacc. et Speg. Mich. I. pag. 160. — Ma- 200

culis obsoletis; peritheciis sparsis, punctiformibus, globulosis, prominulis, 200 μ . diam., pertusis, laxiuscule cellulosis; sporulis ovoideis, 10 \approx 5, quandoque obsolete 2-guttulatis, dilute olivaceis.

Hab. in foliis *Pæoniæ* corallinæ, Conegliano in Ital bor.

201. **Phyllosticta helleborella** Sacc. Fungi Ven. Ser. V. 301. Mich. 201

I. pag. 143. — Maculis arescendo candidis, nitidis, variis, sæpe angulosis, atromarginatis, plerumque epiphyllis; peritheciis lenticularibus latiuscule hiantibus, punctiformibus; sporulis oblongo-ovoides, utrinque acutiusculis, 7 \approx 3, 2-guttulatis, hyalinis.

Hab. in foliis *Hellebori* viridis, Covolo in Ital. bor., socia *Sphærella Hermione* Sacc., cujus est spermogonium.

202. **Phyllosticta Ajacis** Thüm. Fl. mycol. Litor. n. 329. — Peritheciis epiphyllis, sparsis, hemisphærico-emersis, opaco-nigris, mediis in macula valde irregulari, sæpe marginali, arescendo candidante, late fusco-cincta; sporulis oblongis, utrinque rotundatis, non vel uninucleolatis, hyalinis, $4-5 \approx 2$.
Hab. in foliis vivis Delphinii Ajacis, Plezzo in agro Goritensi.
203. **Phyllosticta Violæ** Desm. 14 Not. pag. 29. — Amphigena; maculis albidis, rotundatis, sparsis vel confluentibus; peritheciis inatis, numerosis, microscopicis, fuscis; cirris albis; sporulis minutissimis rectis, subcylindricis, 10μ . longis.
Hab. in foliis languescentibus Violæ odoratæ, in Gallia, Britannia, Italia, Belgio — f. **Violæ tricoloris** Sacc. Mich. I. p. 143. Maculis subcircularibus oblongisve, arescendo candidis, rufo-marginatis; peritheciis punctiformibus, lentiformibus, 100μ . diam., laxiuscule cellulosus, pertusis; sporulis oblongis v. subcylindraceis, $6 \approx 2\frac{1}{2}$, sæpe curvulis, 2-guttulatis, hyalinis. — In foliis Violæ tricoloris, Selva in Ital. bor.
204. **Phyllosticta Helianthemi** Roum. Rev. IV. 217. — Peritheciis punctiformibus, nigris; maculis subcircularibus, albidis, minutis, vinoso-marginatis; sporulis perexiguis, oblongis, hyalinis, $3,5 \approx 1$.
Hab. in foliis Helianthemi vulgaris, Dreux in Gallia (GALLET).
205. **Phyllosticta Cheiranthorum** Desm. 17 Not. pag. 25. — Maculis sparsis, irregularibus, albidis v. griseo-viridibus; peritheciis epigenis, globosis, prominulis, pallidis, dein fusco-nigricantibus, pertusis; sporulis rectis, subcylindricis, utrinque obtusiusculis, 3-4-guttulatis, $18-20 \mu$. long., 2-3-pseudo-septatis.
Hab. in foliis languidis Cheiranthorum, in Gallia. — Ob sporulas longas et pseudo-septatas vix *Phyllostictæ* species; an potius *Cercospora* male observata?
206. **Phyllosticta Napi** Sacc. Mich. I. p. 532. — Maculis vagis, arescendo expallentibus, immarginatis; peritheciis gregariis, epiphyllis, globoso-lenticularibus, $90-100 \mu$. diam., pertusis; sporulis oblongo-cylindraceis, curvulis, $4-6 \approx 1\frac{1}{4}-1\frac{3}{4}$, minute 2-guttulatis, hyalinis.
Hab. in foliis Brassicæ Napi, in Gallia.
207. **Phyllosticta Brassicæ** (Curr.) West. in Bull. Acad. Brux. 1851, p. 397, Kickx Crypt. Flandr. I. p. 413. *Depazea Brassicæ* Curr. Simpl. Sphær. n. 392. — Peritheciis epiphyllis, numerosis, minu-

tis, subplanis, nigris, sparsis; maculis pallide virescentibus, dein albidis; sporulis ovoideis, 2-3-guttulatis; cirris roseis.

Hab. in foliis languidis Brassicæ Napi et oleraceæ, in Belgio, Gallia et Lusitania. — Sec. Curr. sporulæ 5 μ . longæ; maculæ initio centro fuscæ virescenti-marginatæ.

208. **Phyllosticta Erysimi** West. Bull. Soc. bot. Belg. II. 245. — Ma- 208
culis expallentibus, zona crassiuscula, fusca limitatis; peritheciis
numerosis, conspicuis, innatis, atris, poro pertusis, ad centrum ma-
culæ sitis; sporulis ovoideis, hyalinis, biguttatis, 10 μ . longis.

Hab. in foliis Erysimi Alliaris, in Belgio et Britannia.

209. **Phyllosticta anceps** Sacc. Mich. I. p. 532. — Maculis amphi- 209
genis, subcircularibus, minutis, initio atroviridibus, dein albolute-
scentibus, fusco-marginatis; peritheciis globoso-lenticularibus, sub-
velatis, 80-90 μ . diam., pertusis; sporulis botuliformibus, 4-5 \simeq
1-1 $\frac{3}{4}$, minute 2-guttulatis, hyalinis.

Hab. in foliis Nasturtii ancipitis et amphibii, in Gallia. 210

210. **Phyllosticta Capparidis** Sacc. et Speg. Mich. I. p. 139. — Ma-
culis amphigenis, variis, arescendo dealbatis, margine elevato o-
chraceo cinctis; peritheciis sparsis, lenticularibus, 100 μ . diam.,
pertusis, minute parenchymaticis, fuligineis; sporulis oblongo-ovoi-
deis, inæqualibus, 8-12 \simeq 3-4 $\frac{1}{2}$, hyalinis.

Hab. in foliis Capparidis rupestris, Conegliano in Italia boreali.

211. **Phyllosticta Epimedii** Sacc. Mich. I. p. 149. — Maculis majusculis 211
irregularibus, ochraceis, rufo-cinctis; peritheciis sparsis, puncti-
formibus, pertusis; sporulis oblongo-ellipsoideis, 6 \simeq 1 $\frac{1}{2}$ -2, 2-gut-
tulatis, hyalinis.

Hab. in foliis Epimedii alpini, in silva Montello in Italia boreali.

212. **Phyllosticta Tropæoli** Sacc. et Speg. Mich. I. p. 152. — Maculis 212
obsoletis; peritheciis gregariis, punctiformibus, epidermide promi-
nula velatis, globoso-lenticularibus, 200 μ . diam., pertusis; con-
textu laxiuscule celluloso, late fuligineo; sporulis ovoideo-oblon-
gis, 6-10 \simeq 3-4, subinæqualibus, nubilose hyalinis.

Hab. in foliis Tropæoli majoris, Conegliano in Ital. bor., in Lusitania et Austria.

213. **Phyllosticta Oxalidis** Sacc. Mich. I. p. 142. — Maculis variis, are- 213
scendo candicantibus, fuligineo-marginatis; peritheciis sparsis, pau-
cis, punctiformibus, globoso-lenticularibus, pertusis, laxe cellulosis;
sporulis e globoso ovoideis, 4 \simeq 3, hyalinis.

- Hab.* in foliis Oxalidis Acetosellæ, Conegliano in Italia boreali. — Forte spermogonium *Sphærellæ Selenes* Sacc.
214. **Phyllosticta destructiva** Desm. Ann. S. N. 1847, pag. 29. — 214
Maculis subcircularibus, subochraceis, fusco-marginatis; peritheciis epiphyllis concentricis, lutescentibus v. olivaceis, dein atris; sporulis ovoideis v. oblongis, subhyalinis, 2-guttatis; cirro carneo.
Hab. in foliis Malvæ, Althææ, Lycii, Evonymi, in Gallia, Belgio, Austria, Italia.
215. **Phyllosticta althæina** Sacc. Mich. I. p. 143. — Maculis sinuosis, 215
arescendo expallentibus, anguste fusco-marginatis; peritheciis sparsis, punctiformibus, lenticularibus, 90 μ . diam., pertusis, laxiuscule ochraceo-cellulosis; sporulis oblongo-ovoideis, 6-7 \simeq 3-4, rarius curvulis, 2-guttulatis, hyalinis.
Hab. in foliis Althææ roseæ, in Italia boreali et Gallia. — Legi quoque in ejusdem caule, ubi maculas alidas similes efficit.
216. **Phyllosticta Tormentillæ** Sacc. Mich. I. p. 159. — Maculis palli- 216
de ochraceis, irregularibus, margine subconcolori; peritheciis punctiformibus, lenticularibus, sparsis; sporulis breve ellipsoideis minutissimis, 3 \simeq 2 $\frac{1}{2}$, e hyalino fuscidulis.
Hab. in foliis Tormentillæ erectæ, in silva Montello in Italia boreali. — A *Phyll. potentillica* Sacc., *Phyll. fragaricola* Desm. etc. tute diversa.
217. **Phyllosticta potentillica** Sacc. Mich. I. p. 139. — Maculis subcir- 217
cularibus angulosisve, arescendo dealbatis, anguste fusco-marginatis; peritheciis remotis, punctiformibus, pertusis; sporulis cylindraceo-botuliformibus, 5 \simeq $\frac{3}{4}$, curvulis, hyalinis.
Hab. in pag. sup. foliorum Potentillæ reptantis, Selva in Italia boreali. — Ab *Ph. fragaricola* Desm. et Rob. sporulis curvulis et angustioribus differt.
218. **Phyllosticta ? Argentinae** Desm. Ann. S. N. 1847, pag. 30. Kickx 218
Crypt. I. 415. — Peritheciis sparsis, exiguis, nitentibus; maculis rubescentibus, indeterminatis, denique totum folium fere invadentibus; sporulis..... non observatis.
Hab. in foliis Potentillæ anserinæ, in Gallia, Belgio et Sibiria.
219. **Phyllosticta fragaricola** Desm. et Rob. p. p. (ut videtur) Plant. 219
Crypt. III. n. 686, Mich. I. pag. 140. — Maculis vagis, arescendo dealbatis, sanguineo-marginatis; peritheciis punctiformibus, remote sparsis; sporulis oblongo-ovoideis, 5 \simeq 1 $\frac{1}{2}$ -2, rectis, eguttulatis, hyalinis.

- Hab.* in pag. sup. foliorum *Fragariæ chiloensis* et *Fr. vescæ*, in Gallia, Italia, Germania et Austria.
220. **Phyllosticta Arunci** Sacc. *Fungi Ven. Ser. V.* 300. *Mich. I.* 220 pag. 143. — Maculis arescendo dealbatis, amphigenis, circulari-angulosis, sæpius fusco-cinctis; peritheciis lenticularibus, punctiformibus, late pertusis; sporulis ovoideo-oblongis, $5 \approx \frac{3}{4}$, hyalinis.
Hab. in foliis *Spirææ Arunci*, Selva in Italia boreali, socia *Sphærella Dejanira* Sacc., cujus est spermogonium.
221. **Phyllosticta Filipendulæ** Sacc. *Mich. I.* p. 145. — Maculis epiphyll- 221
lis, subcircularibus, arescendo dealbatis, atosanguineo-marginatis; peritheciis sparsis, punctiformibus, 80-90 μ . diam., lenticularibus, pertusis, contextu minute parenchymatico; sporulis cylindræo-oblongis, $4 \approx 2$, 2-nucleatis, hyalinis.
Hab. in foliis *Spirææ Filipendulæ*, Conegliano in Italia boreali.
222. **Phyllosticta filipendulina** Sacc. et Speg. *Mich. I.* p. 150. 276. — 222
Maculis arescendo fuligineis, subcircularibus; peritheciis gregariis, globoso-lenticularibus, 200-250 μ . diam., solidiusculis, latiuscule pertusis; sporulis oblongo-ellipsoideis, $5-6 \approx 2-2\frac{1}{2}$, rectis curvulisque, nubilose hyalinis.
Hab. in foliis *Spirææ Filipendulæ*, Susigana in Italia boreali. — Var. **Ulmariæ** Sacc. In foliis *Spirææ Ulmariæ*, Rouen in Gallia (LETENDRE).
223. **Phyllosticta Ulmariæ** Thüm. *Pilzfl. Sibir. n.* 806. — Perithe- 223
ciis epiphyllis, sparsis vel solitariis, mediis, hemisphæricis, postremo liberis exsertisve, atris in macula minima, irregulari, arescendo candida, latissime sordide fusco cincta; sporulis cylindricis, numerosissimis, enucleatis, utrinque truncato-rotundatis, hyalinis, $3,5-5 \approx 2-2,5$.
Hab. in foliis vivis *Spirææ Ulmariæ*, in pratis pr. Ssamodourowka in Sibiria.
224. **Phyllosticta phaseolina** Sacc. *Mich. I.* p. 149. — Maculis am- 224
plis, vagis, arescendo ochraceis; peritheciis sparsis, lenticularibus, 70 μ . diam., pertusis; sporulis ovoideo-oblongis, $6 \approx 2\frac{1}{2}$, rectis, rarius inæquilateralibus, hyalinis.
Hab. in foliis *Phaseoli vulgaris*, Selva in Italia boreali, et *Ph. diversifolii* in Amer. bor.
225. **Phyllosticta Phaseolorum** Sacc. et Sp. *Mich. I.* p. 160. — Ma- 225
culis versiformibus, amplis, arescendo ochraceis; peritheciis punctiformibus, lenticularibus, 100 μ . diam., pertusis, fuligineis; sporu-

lis ovoideo-oblongis, rectis curvulisve, $5-6 \approx 3-3\frac{1}{2}$, chlorino-olivaceis.

Hab. in foliis Phaseoli vulgaris, Costa in Italia bor. — An status alter v. proventus *Ph. phaseolinæ* Sacc.?

226. **Phyllosticta orobina** Sacc. Mich. I. p. 149. — Maculis sinuosis, 226
variis, dilute ochraceis, brunneo-cinctis; peritheciis punctiformibus, pertusis; sporulis ovoideis, $3 \approx 1$, 2-guttulatis, hyalinis.

Hab. in foliis Orobi verni, in silva Montello in Ital. bor., socia *Ascochyta Orobi*.

227. **Phyllosticta orobella** Sacc. Miscel. mycol. p. 25. — Maculis ex- 227
pallentibus, variis, non marginatis; peritheciis gregariis, punctiformibus, initio tectis, $80-100 \mu$. diam.; sporulis oblongis, inæquilateralis, utrinque rotundatis, biguttulatis, hyalinis, $7-7.5 \approx 3$.

Hab. in foliis Orobi verni, Neuchâtel in Helvetia (MORTIER). — A *Ph. orobina* Sacc. prorsus diversa.

228. **Phyllosticta Medicaginis** (Fuck.) Sacc. *Ascochyta Medicaginis* 228
Fuck. Symb. myc. p. 388. — Peritheciis immersis, atris, perforatis, apice globulum diaphanum gerentibus, in macula aurantiaca; sporulis minimis, cylindræis, curvatis, hyalinis.

Hab. in foliis adhuc vivis Medicaginis sativæ et falcatæ, in Germania et Italia.

229. **Phyllosticta minussinensis** Thüm. Pilz. fl. Sib. n. 803. — Pe- 229
ritheciis hypo-raro etiam epiphyllis, dense gregariis, punctiformibus, conico-semiimmersis, nitido-atris in macula indistincta, sordide ochracea, non marginata, irregulari, postremo in folii pagina superiore maculam lacteam efficiente; sporulis ovoideis, minutis, numerosis, utrinque rotundatis, enucleatis, hyalinis, $3.5-4.5 \approx 1.5-2$.

Hab. ad folia viva et languida Lathyri pisiformis, in silvis pr. Patroschilowo in Sibiria.

230. **Phyllosticta lathyrina** Sacc. et Wint. Hedw. 1883, n. 1, p. 1. — 230
Maculis amphigenis, difformibus, ochraceo-pallidis, ferrugineo-marginatis; peritheciis innato-prominulis, tenui-membranaceis, $120-140 \mu$. diam., pertusis, pallide fuligineis; sporulis oblongo-ellipsoideis, utrinque rotundatis, $5-7 \approx 2-3.5$, continuis, hyalinis, eguttulatis.

Hab. ad folia viva Lathyri silvestris, in consortio *Septorice fulvescentis* Sacc., in fruticetis prope Zürich in Helvetia.

231. **Phyllosticta Fabæ** West. Bull. Soc. Belg. Ser. II. t. XII. n. 7. 231
— Maculis fusco-fuligineis, centro dein expallentibus, usque 2 cent. longis, subrotundis v. elongatis, zona sanguinea cinctis; peritheciis

sat copiosis, brunneis, epiphyllis, poro pertusis; sporulis ovato-oblongis, hyalinis, 2-guttatis, $10 \approx 5$.

Hab. in foliis Fabæ vulgaris, prope Namur in Belgio (BARBIER).

232. **Phyllosticta Viciæ** (Lib.) Cooke Handb. n. 1345, *Ascochyta Viciæ* Lib. Exs. n. 356, *Phyll. Ervi* West.? — Maculis subcircularibus, pallidis, purpureo-marginatis; peritheciis epiphyllis, minutis, aggregatis, atris, pertusis; sporulis ellipsoideis, 2-guttulatis, hyalinis.

Hab. in foliis Viciæ sepium, in Belgio, Gallia et Britannia.

233. **Phyllosticta Pisi** West. Bull. Ac. Belg. Ser. II. t. XII. n. 7. — 233
Maculis subcircularibus v. oblongis, fusco-ochraceis, centro dein expallentibus, atro-marginatis; peritheciis in centro sitis paucis, poro pertusis; sporulis ovoideis, hyalinis, 2-guttulatis.

Hab. in pag. inferiore foliorum Pisi sativi, in Belgio.

234. **Phyllosticta Astragali** Peck Bot. Gaz. Oct. 1881, p. 275. — 234
Maculis obsolete; peritheciis numerosis, sæpius amphigenis, 180-230 μ . diam., epidermide fissa subvelatis, poro circulari pertusis; sporulis oblongis v. oblongo-fusoideis, hyalinis, 13-16 \approx 3.

Hab. in foliis vivis vel emortuis Astragali, in Canada (MACONN).

235. **Phyllosticta Saponariæ** (Fuck.?) Sacc. Mich. I. p. 154. *Ascochyta Saponariæ* Fuck. Symb. 388? — Maculis nullis v. obsolete; peritheciis epiphyllis, hinc inde maculiformiter densissime aggregatis, punctiformibus, globuloso-prominulis, 80 μ . diam., pertusis, aterrimis; sporulis tenuissimis, cylindræis, rectiusculis, $4 \approx \frac{1}{2}$, hyalinis.

Hab. in foliis Saponariæ officinalis, socia *Septoria*, Selva in Italia bor. et in Germania.

236. **Phyllosticta nebulosa** Sacc. Mich. II. p. 276. — Maculis obsolete, 236
expallentibus; peritheciis hinc inde in cohortes dense aggregatis, punctiformibus, innato-erumpentibus, 80 μ . diam.; sporulis oblongo-ovoides, 6-7 $\approx 1\frac{1}{4}$ -2, hyalinis.

Hab. in foliis languidis vel emortuis Silenes pendulæ, in hortis Padova in Italia bor.

237. **Phyllosticta Dianthi** West. Exs. n. 293, Kickx Fl. cr. Fl. I. 411. 237
— Maculis albidis, sæpe confluentibus; peritheciis epiphyllis, perexiguis, numerosis, fuscis, in centro maculæ sitis; sporulis ellipsoideis, 3-guttulatis; cirris albis.

Hab. in foliis languidis Dianthi barbati, in hortis Belgii.

238. **Phyllosticta Cirsii** Desm. Ann. S. N. 1847, p. 31, Kickx Flandr. 238
I. 414. — Maculis epiphyllis, variis, subcircularibus, arescendo cinerescentibus, fusco-cinctis; peritheciis innatis, sparsis, nigris; sporulis oblongo-ovoideis, $5-7 \approx 2\frac{1}{2}-3$, 2-guttulatis, hyalinis.
Hab. in pag. sup. foliorum *Cirsii lanceolati* et *arvensis*, in Italia bor., Gallia, Belgio et Britannia.
239. **Phyllosticta profusa** Sacc. Mich. I. p. 260. — Maculis plerumque 239
epiphyllis, arescendo obsolete candicantibus, confluentibus, demumque totam fere paginam occupantibus; peritheciis densiuscule et æqualiter gregariis, punctiformibus, globoso-lenticularibus, 100μ . diam., pertusis; sporulis oblongis, $4-5 \approx 2$, utrinque obtuse rotundatis, obsolete 2-guttulatis, hyalinis.
Hab. in foliis emortuis *Cirsii arachnoidei*, in horto Patavino Italiæ bor. — A *Phyll. Cirsii* Desm. statim dignoscenda.
240. **Phyllosticta Sonchi** Sacc. Mich. I. p. 141. — Maculis arescendo 240
dealbatis, non marginatis, variis; peritheciis paucis, punctiformibus, lenticularibus, pertusis, 100μ . diam.; sporulis oblongo-ovoideis, $7-7\frac{1}{4} \approx 3\frac{1}{2}$, rectis curvulisve, 2-guttulatis, hyalinis.
Hab. in foliis *Sonchi oleracei*, Conegliano in Italia bor.
241. **Phyllosticta Leucanthemi** Speg. Nov. Add. n. 153, Mich. II. 241
p. 277. — Maculis albo-griseis, circularibus, centro perithecia globosa, prominula, minuta, $120-130 \mu$. d., membranacea, contextu laxo parenchymatico, fuligineo, gerentibus; sporulis cylindraco-ellipticis vel ovoideis, $4-5 \approx 1\frac{1}{2}$, granuloso-farctis, hyalinis.
Hab. in foliis *Chrysanthemi Leucanthemi*, in pratis prope Ampezzo in Italia bor.
242. **Phyllosticta Lappæ** Sacc. Mich. I. p. 151. — Maculis subcircu- 242
laribus sinuosisque, arescendo griseo-brunneis, saturatius marginatis; peritheciis remotiusculis, punctiformibus, lenticularibus, 70μ . diam., contextu lutescenti; sporulis ovoideo-oblongis vel subreniformibus, $6 \approx 3$, hyalinis.
Hab. in foliis *Lappæ minoris*, Selva in Italia bor.
243. **Phyllosticta Iacobæa** Sacc. Mich. I. p. 149. — Maculis vagis, 243
obtuse angulatis, arescendo ochraceis; peritheciis punctiformibus, remotis; sporulis ovoideis vel breviter oblongis, $5 \approx 2$, eguttulatis, hyalinis.
Hab. in foliis *Senecionis Iacobææ*, in silva Montello in Italia bor.
244. **Phyllosticta Hualtatæ** Speg. F. Argent. Pug. IV. n. 271. — Ma- 244
culis suborbicularibus, determinatis, 3-15 mill. diam., arescendo

albicantibus, amphigenis; peritheciis amphigenis, centralibus, lenticularibus, 90-100 μ . diam., tenuissime membranaceis, contextu parenchymatico, olivaceo-fuligineo, ostiolo latiusculo perforatis; sporulis ellipticis vel elliptico-ovoideis, utrinque obtusiusculis, 8-10 = 3-4, non vel 2-guttulatis, hyalinis.

Hab. in foliis vivis Senecionis Hualtatæ, ad ripas del Rio de la Plata, prope la Recoleta.

245. **Phyllosticta Farfaræ** Sacc. Fungi Ven. Ser. II. 302. Mich. I. 245 p. 143. — Maculis epiphyllis, irregularibus, arescendo albicantibus, zona elevata atropurpurea cinctis; peritheciis punctiformibus, lenticularibus, 80 μ . diam.; sporulis ellipsoideis vel ovoideis, 5-6 = 3, 2-guttulatis, hyalinis.

Hab. in foliis Tussilaginis Farfaræ, Covolo in Italia bor., socia *Sphærella Pieride* Sacc., cujus est spermogonium.

246. **Phyllosticta eupatorina** Thüm. Contr. fl. myc. Lusitan. — Peritheciis epiphyllis, minutissimis, semiimmersis, punctiformibus, globosis, nigris, sparsis in macula plus minusve orbiculari, arescendo cinerescenti, late fumoso-purpureo-cincta; sporulis ellipsoideis, utrinque rotundatis, enucleatis, continuis, dilute griseo-hyalinis, 6 = 2,5-3.

Hab. in foliis vivis Eupatorii speciei indeterminatæ, Coimbra in Lusitania in horto botanico (MOLLER).

247. **Phyllosticta Cynaræ** West. Exs. n. 1140, Kickx Flandr. I. 414. — Peritheciis epiphyllis, exiguis, numerosis, fuscis, sparsis; maculis cinereo-fuligineis, subcircularibus, concentrice lineatis; sporulis ovoideis, hyalinis, 10 = 5.

Hab. in foliis Cynaræ, in Belgio.

248. **Phyllosticta Aronici** Sacc. Syll. I. 538. — Epiphylla; peritheciis dense gregariis, globosis, sub foliorum epidermide nidulantibus, aterrimis, perforatis; sporulis cylindraceutis, continuis, hyalinis, 8 = 2.

Hab. socio *Fusicladio Aronici* in foliis nondum emortuis Aronici scorpioidis, in Helvetia et Italia.

249. **Phyllosticta Arnicæ** Fuck. Symb. myc. App. III. p. 36 (sub *Ascochyta*). — Epiphylla, maculam obscuriorem luteo-limitatam formans; peritheciis aggregatis, mox cupulæformibus, carbonaceis, marginalibus adhuc clausis, sporulas cylindraceutas, rectas, 6 = 1, includentibus.

Hab. in pag. sup. foliorum Arnicæ montanæ, St. Moritz in Helvetia, socia *Septoria Arnicæ* Fuck.

250. **Phyllosticta Laserpitii** Sacc. Mich. I. p. 145. — Maculis epi-

phyllis, minutis, griseo-albicantibus; peritheciis sparsis, punctiformibus, 90-100 μ . diam., lenticularibus, pertusis; sporulis ellipsoideo-oblongis, 4-5 \approx 2 $\frac{1}{2}$ -2 $\frac{3}{4}$, rectis, 2-guttulatis, hyalinis.

Hab. in foliis Laserptii latifolii cum *Passalora depressa*, in montanis Tarvisinis Italiæ bor. (A. DE BÉRENGER).

251. **Phyllosticta Bupleuri** (Fuck.) Sacc., *Depazea Bupleuri* Fuck. 251
Symb. 382, Rev. Myc. V. 11. t. XXXV. f. 8. — Macula exarida, grisea; peritheciis conicis, numerosis, atris, poro pertusis; sporulis ovoideis, copiosis, hyalinis, tunica obscuriore.

Hab. in foliis vivis Bupleuri falcati, in Germania prope Œstrich, et Bupleuri gibraltarici in Algeria.

252. **Phyllosticta Angelicæ** Sacc. Mich. II. p. 620. — Peritheciis maculiformi-aggregatis, lenticularibus, pertusis, 80-90 μ . diam., laxe contextis; sporulis oblongis, minutissimis, 4-5 \approx 1, hyalinis. 252

Hab. in foliis Angelicæ silvestris, in Gallia et Italia. — Spermogonium *Phyllachoræ Angelicæ* (Fr.) Fuck. — *Sphæria* (Sphæropsis) *Ægopodii* Curr. Simpl. Sphær. p. 332: sporulis minutis, cylindraceutis, 5 μ . longis, verisimiliter est varietas in *Ægopodii* Podagrariæ foliis vicens et ad *Phyllachoram Podagrariæ* pertinens.

253. **Phyllosticta Scrophulariæ** Sacc. Mich. I. pag. 159. — Maculis 253
vagis, ochraceis, margine subconcolori; peritheciis punctiformibus, sparsis; sporulis ellipsoideis, utrinque obtusis, 5 \approx 3, e hyalino fuscidulis.

Hab. in foliis Scrophulariæ nodosæ, Selva in Italia bor. — Var. **Veronicæ speciosæ**. Sporulæ ellipsoideæ, 5-6 \approx 3 $\frac{1}{4}$, quandoque medio lenissime contractæ, olivaceæ. In ejusdem foliis, Perpignan in Gallia.

254. **Phyllosticta scrophularinea** Sacc. Mich. I. p. 141. — Maculis 254
minutis angulosis, arescendo candicantibus, late rufo-cinctis; peritheciis punctiformibus, lenticularibus, 90-100 μ . diam., sparsis; sporulis oblongis, rectis curvulisve, minutissimis, 3-4 \approx 1, utrinque rotundatis, hyalinis.

Hab. in pag. sup. foliorum Scrophulariæ nodosæ, Selva in Italia bor. — A *Phyll. Scrophulariæ* Sacc. et *Phyll. Ehrhartii* Sacc. probe distincta.

255. **Phyllosticta Ehrhartii** Sacc. Mich. I. p. 140. — Maculis arescendo 255
dealbatis, sinuosis, sanguineo-marginatis; peritheciis epiphyllis, punctiformibus, remote sparsis, lenticularibus; sporulis oblongo-ovoideis, 4-5 \approx 3, hyalinis.

Hab. in foliis Scrophulariæ Ehrhartii, Selva in Italia boreali.

256. **Phyllosticta Digitalis** Bell. in West. Exs. n. 1053. — Maculis 256
subcircularibus vel irregularibus, sparsis, confluentibusque, ciner-
escentibus, vinoso-marginatis; peritheciis parcis, semiimmersis,
poro pertusis; sporulis ovoideis, hyalinis, 2-guttatis, $7 \approx 2,5$.

Hab. in pag. sup. foliorum Digitalis luteæ, in Belgio.

257. **Phyllosticta Linariæ** Sacc. Mich. II. p. 588. — Maculis subcir- 257
cularibus, arescendo dealbatis, anguste rufo-marginatis; peritheciis
sparsis, punctiformibus, lenticularibus, pertusis, vix 100 μ . diam.;
sporulis ovoideo-oblongis, $4 \approx 2\frac{1}{2}$, hyalinis.

Hab. in foliis Linariæ Elatines, Saintes in Gallia (BRUNAUD).

258. **Phyllosticta Verbenæ** Sacc. Mich. I. pag. 530. — Maculis epi- 258
phyllis, variis, arescendo cinerescentibus v. albicantibus; peritheciis
punctiformibus, lenticularibus, 80 μ . diam., pertusis; sporulis ob-
longis, curvulis, $5 \approx 1-1\frac{1}{4}$, hyalinis, coacervatis viridulis.

Hab. in foliis Verbenæ officinalis, Alençon in Gallia (GILLET).

259. **Phyllosticta Verbasci** Sacc. Mich. I. p. 531. — Maculis parvis, 259
arescendo expallentibus, epiphyllis; peritheciis punctiformibus, spar-
sis; sporulis oblongis, $6 \approx 3$, utrinque obtusis, medio parum constri-
ctis, continuis, hyalinis.

Hab. in foliis Verbasci, Alençon in Gallia (GILLET).

260. **Phyllosticta Martyniæ** Thüm. Contr. Fl. myc. Lusit. — Peri- 260
ritheciis epiphyllis, dense gregariis, parvulis, conoideo-emersis, oli-
vaceis, primo longe diu tectis, dein prominulis in macula plus mi-
nusve orbiculari, exarida, concentrice zonata, e griseo subrosea,
anguste fusco-marginata; sporulis ellipticis, continuis, utrinque ro-
tundato-obtusatis, enucleatis, achrois, $5-6 \approx 3$.

Hab. ad folia viva Martyniæ luteæ, Coimbra in Lusitania in horto botanico (MOLLER).

261. **Phyllosticta Petuniæ** Speg. Nov. Add. n. 155, Mich. II. p. 278. 261
— Maculis fuligineis, circularibus, dein angulosis, amorphis, con-
centrice saturatius et rugulose zonatis; peritheciis centro macu-
larum insidentibus, tenui-membranaceis, contextu laxo parenchy-
matico, fuligineo; sporulis ellipticis vel ovoideis, continuis, hyali-
nis, $3-5 \approx 1\frac{1}{2}-2$.

Hab. in foliis languidis Petuniæ cujusdam speciei cultæ in hortis, Belluno in Italia boreali.

262. **Phyllosticta Physaleos** Sacc. Mich. I. p. 150. — Maculis subcir- 262
cularibus, arecendo ochraceis, brunneo-marginatis; peritheciis punctiformibus, remotiusculis, lenticularibus, 80 μ . d., pertusis, contextu subferrugineo, minute celluloso; sporulis oblongo-ovoideis, 7-8 \approx 3 $\frac{1}{2}$ -4, crassiuscule 2-guttulatis, hyalinis.

Hab. in foliis *Physaleos Alkekengi*, in silva Montello in Italia bor. — Var. **calycicola** Speg. F. Arg. Pug. IV. n. 272. maculis determinatis, majusculis, irregularibus, candidis; peritheciis lenticularibus, 150-180 μ . d., atris, ostiolo impresso pertusis, contextu parenchymatico, olivaceo; sporulis ellipticis, utrinque attenuato-acutatis, 8-10 \approx 3, et grosse 2-guttulatis, hyalinis. — In calycibus fructiferis *Physalidis viscosæ*, in sepibus, Boca del Riachuelo in Argentina.

263. **Phyllosticta Julia** Speg. F. Arg. Pug. II. 120. — Maculis can- 263
didis, orbicularibus, magnitudine variabilissimis; peritheciis minutissimis, 80-90 μ . d., atris globoso-depressis, membranaceis, contextu densiuscule parenchymatico-olivaceis, fuligineis; sporulis ellipticis, utrinque obtusis, sæpe inæquilateralibus, simplicibus, hyalinis, 6-9 \approx 3-4.

Hab. ad folia languida *Daturæ discoloris*, in horto publico del Paseo de Julio in Argentina.

264. **Phyllosticta Tabaci** Pass. Critt. Tabacco n. 1. — Foliis primo 264
variegatis et paullulum bullatis, deinde areolis exaridis candidis, irregularibus, subconfluentibus, disseminatis; areolis sæpe sterilibus, nonnullis autem medio sordescens, ibique perithecia atra punctiformia foventibus et mox laceratis; sporulis ovoideis, rectis, hyalinis, 7 \approx 3.

Hab. ad folia *Nicotianæ Tabaci*, pr. Parma in Ital. bor.

265. **Phyllosticta capsulicola** Sacc. et Speg. Mich. I. p. 152. — Ma- 265
culis obsolete; peritheciis gregariis, punctiformibus, lenticularibus, 70 \approx 100, pertusis; contextu parenchymatico dilute fuligineo; sporulis ovoideis, curvulis, 7-11 \approx 3-4 $\frac{1}{2}$, 1-2-guttulatis, hyalinis.

Hab. in capsulis *Nicotianæ Tabaci*, Conegliano in Ital. bor.

266. **Phyllosticta Aratæ** Speg. Fung. Arg. Pug. II. n. 117. — Ma- 266
culis griseo-fuscescentibus vel griseo-subochraceis, centro intensius coloratis, orbicularibus, concentricè rugulosis, $\frac{1}{2}$ -2 cent. d.; peritheciis lenticulari-globosis, 90-100 μ ., atris, ostiolo parvulo perforatis, submembranaceis, contextu minute parenchymatico, fuligineo-olivaceo; sporulis elliptico-cylindraceis, utrinque obtusis, simplicibus, hyalinis, 7-10 \approx 3-4, rectis vel curvulis.

Hab. in foliis vivis Solani glauci, in pratis humidis cerca de la Boca del Riachuelo in Argentina (SCHNYDER).

267. **Phyllosticta hortorum** Speg. Nov. Add. n. 154, Mich. II. p. 277. 267

— Maculis circularibus indeterminatis, fulvis, centro griseis, amphigenis, denique circumscissis; peritheciis centralibus, minutis, 80-90 μ . diam., lenticulari-globosis, contextu tenui, membranaceo, fuscido-olivaceo, poro pertusis; sporulis ellipticis vel ovoideis, continuis, utrinque rotundatis, hyalinis, 4-6 \simeq 2-2 $\frac{1}{2}$.

Hab. in foliis vivis Solani Melongenæ, in hortis Belluno in Italia boreali.

268. **Phyllosticta Dulcamaræ** Sacc. Mich. I. p. 160. — Maculis ver- 268

siformibus, sæpe marginalibus, arescendo brunneis; peritheciis epiphyllis sparsis, lenticularibus, punctiformibus, 80-90 μ . diam., pertusis; sporulis globoso-ellipsoideis, inæqualibus, 5-6 \simeq 3, e hyalino chlorinis.

Hab. in foliis Solani Dulcamaræ, Selva in Italia boreali, socia *Septoria*.

269. **Phyllosticta Pseudo-capsici** Roum. Rev. Myc. IV. 152. — Ma- 269

culis albido-ochraceis, subcirculari-sinuosis, sæpius marginalibus, fulvo-marginatis; peritheciis amphigenis, punctiformi-lenticularibus, atris, pertusis; sporulis ellipsoideis, 8-10 \simeq 4, subhyalinis.

Hab. in foliis languidis Solani Pseudo-capsici culti, Saint-Caprais prope Toulouse in Gallia.

270. **Phyllosticta Solani** Ell. et Mart. Amer. Nat. 1882, p. 100. — 270

Maculis pallide fuscis, obscurius marginatis; peritheciis atris, innatis, amphigenis, 90 μ . diam., parte superiori deciduis; sporulis subhyalinis, oblongis, 9 \simeq 2.

Hab. in foliis Solani cujusdam, Lexington in America bor. (W. A. KELLERMANN).

271. **Phyllosticta Teucris** Sacc. et Speg. Mich. I. p. 144. — Maculis 271

variis, arescendo albidogriseis; peritheciis gregariis, punctiformibus, lenticularibus, late pertusis, contextu distincte parenchymatico, olivascente; sporulis cylindræis, minutissimis, 4-5 \simeq 1-1 $\frac{3}{4}$, quandoque curvulis, hyalinis.

Hab. in foliis Teucris Chamædryos, Conegliano in Italia boreali.

272. **Phyllosticta Lamii** Sacc. Mich. I. p. 142. — Maculis vagis, la- 272

tiusculis, arescendo dealbatis, zona plus vel minus lata ochracea cinctis; peritheciis remote sparsis, punctiformibus, pertusis, laxiuscule cellularibus, lutescentibus; sporulis oblongis, utrinque obtu-

siusculis 1-guttulatisque, 7 = 3, hyalinis; basidiis filiformibus, acuminatis, 5 = 2, suffultis.

Hab. in foliis Lamii Orvalæ et L. albi, Selva in Italia bor., et in Sibiria.

273. **Phyllosticta Glechomæ** Sacc. Mich. I. p. 151. — Maculis variis, 273
sinuosis, arescendo brunneis; peritheciis sparsis, punctiformibus, lenticularibus, pertusis; sporulis oblongis, utrinque rotundatis, 7 = 3-3½, rectis vel curvulis, 2-guttulatis, hyalinis.

Hab. in foliis Glechomæ hederaceæ, Selva in Italia bor.

274. **Phyllosticta infuscata** Winter Cont. Myc. Lus. n. 799. — Ma- 274
culis determinatis, irregularibus, plerumque angulato-rotundatis, fuscidulis, margine obscuriore purpureo-fusco cinctis, demum in centro albidis, usque 6 mill. lat.; peritheciis sparsis, punctiformibus, subglobosis, atris, membranaceis; sporulis oblongis, interdum ovatis, hyalinis, continuis, 3,5-4,5 = 2.

Hab. ad folia viva Teucree Scordii, prope Caldas do Gezez in Lusitania.

275. **Phyllosticta Galeopsidis** Sacc. Mich. I. p. 150. — Maculis are- 275
scendo dilute ochraceis, versiformibus, margine concolori; peritheciis minutissimis, lenticularibus, 60 µ. diam., pertusis; sporulis oblongis, sæpe inæquilateralibus, utrinque rotundatis, 4 = 3, 2-guttulatis, hyalinis.

Hab. in foliis Galeopsidis versicoloris, Selva in Italia boreali, socia *Sphærella*.

276. **Phyllosticta Ajugæ** Sacc. et Speg. Mich. I. p. 150. — Maculis 276
versiformibus, latiusculis, arescendo dilute ochraceis, fusco-cinctis; peritheciis sparsis, globulosis, prominulis, 90-100 µ. diam., pertusis; contextu laxo parenchymatico fuligineo; sporulis ovato-ellipsoideis, 7-8 = 3, rectis curvulisve, hyalinis, quandoque 2-guttulatis.

Hab. in foliis Ajugæ reptantis, Conegliano in Italia bor. (SPEGAZZINI).

277. **Phyllosticta Quamoclit** Thüm. Contr. Fl. myc. Lusitan. — Peri- 277
theciis epiphyllis, solitariis, emersis, punctiformibus, submagnis, conico-subglobosis, nigris in macula irregulari, ochraceo-ferruginea, exarida, fusco-griseo-zonata, postremo dilacerata; sporulis late ovoideis, utrinque acutato-rotundatis, enucleatis, dilute griseolis, 12-13 = 8-9.

Hab. ad folia viva Quamoclit coccineæ, Choupal prope Coimbra in Lusitania (MOLLER).

278. **Phyllosticta Pharbitis** Sacc. Mich. I. pag. 144. — Maculis are- 278

scendo expallentibus fusco-cinctis, variis; peritheciis parcis, amphigenis, lentiformibus, 100 μ . diam., pertusis; sporulis oblongis, interdum curvulis, 6 \approx 2-3, 2-guttulatis, hyalinis.

Hab. in foliis *Pharbitis hispidæ*, Selva in Italia bor. et Rouen in Gallia.

279. **Phyllosticta nervisequa** Sacc. Mich. I. p. 160. — Maculis nullis vel obsoletis; peritheciis secus foliorum nervos digestis, innatoprominulis, applanatis, oblongis, 120-130 μ . long., 80 lat., minute pertusis, contextu parenchymatico densiusculo fuligineo; sporulis oblongo-cylindraceutis, 8-10 \approx 3 $\frac{1}{2}$, leniter curvulis rectisve, utrinque obtusiusculis, eguttulatis, e hyalino dilutissime olivaceis. 279

Hab. in foliis *Calystegiæ sepium*, utraque pagina conspicua, Conegliano in Italia bor.

280. **Phyllosticta Calystegiæ** Sacc. Mich. I. p. 141. — Maculis subcircularibus, arescendo cinerescentibus albisve, brunneo-marginatis; peritheciis sparsis, punctiformibus, lenticularibus, 80 μ . diam., pertusis, minute parenchymaticis; sporulis oblongo-ovoideis, 4-5 \approx 2 $\frac{1}{2}$ -3, hyalinis. 280

Hab. in pag. sup. foliorum *Calystegiæ sepium* cum *Septoria Convolvuli*, Selva in Italia bor.

281. **Phyllosticta bataticola** Ell. et Mart. Amer. Nat. 1882, p. 1002. — Peritheciis paucis, minutis, nigris; maculis parvis, rotundis albis, purpureo-marginatis; sporulis oblongo-ellipsoideis, 5 \approx 2. 281

Hab. in foliis *Batatae edulis*, Newfield New Jersey in Amer. bor. — Multo minor quam *Ph. Batatae* Cooke.

282. **Phyllosticta Batatae** Thüm. M. Un. n. 598 (sub *Depazea*). — Maculas dealbatas vel fuscescentes, plus minusve orbiculatas, aridas, dilabentes, dilute fusco-marginatas, 2,6 mill. d., formans; peritheciis epiphyllis vel etiam amphigenis, sparsis, prominentibus, punctiformibus, plus minusve globosis, atris; sporulis minutis, breviter cylindraceutis, utrinque obtusis, binucleatis, hyalinis, 6-8 \approx 3. 282

Hab. ad folia viva *Batatae edulis*, in Carolina infer. Aiken. — A *Depazea perusta* Berk. et Br., quæ *Læstadia*, etiam in *Batata eduli* parasitante, diversissima.

283. **Phyllosticta Campanulæ** Sacc. et Speg. Mich. I. p. 151. — Maculis variis, fulvo-ochraceis, fusco-cinctis; peritheciis epiphyllis, sparsis, lenticularibus, 150 μ . diam., pertusis, laxe cellulosis; sporulis ovoideis, 8 \approx 4 $\frac{1}{2}$ -5, subinæqualibus, dilute olivaceis. 283

Hab. in foliis *Campanulæ Trachelii*, Vittorio in Italia bor.; et *Camp. glomeratæ*, in Sibiria.

284. **Phyllosticta Vincetoxici** Sacc. Mich. I. p. 156. — Maculis epi- 284
phyllis, variis, sinuosis, arescendo dealbatis, margine tenui rufescente; peritheciis sparsis, punctiformibus, lenticularibus; sporulis ellipsoideis, 5-6 \approx 3-3 $\frac{1}{2}$, quandoque inæquilateralibus, olivaceis.
Hab. in foliis Cynanchi Vincetoxici, Vittorio in Italia boreali. — A *Phyll. Asclepiadearum* West. sporulis coloratis differt.
285. **Phyllosticta Asclepiadearum** West. Bull. Brux. 1851, pag. 398, 285
Mich. I. pag. 140. — Maculis variis, arescendo griseis albidisque, fusco-cinctis; peritheciis punctiformibus, lenticularibus, 100 μ . d.; sporulis ellipsoideo-oblongis vel subcylindræis, 4 $\frac{1}{2}$ -6 \approx 2 $\frac{1}{2}$ -3, hyalinis.
Hab. in foliis Cynanchi Vincetoxici, Cadore et in silva Montello in Italia bor.
286. **Phyllosticta atro-maculans** Speg. Nov. Add. n. 149, Mich. II. 286
pag. 276. — Maculis pallidis, melleis, totum folium occupantibus et arescentibus; peritheciis hinc inde sparsis, circulos stromaticos parvulos, atros, 150-200 μ . diam., efficientibus, globoso-lenticularibus, ostioli pertusis, contextu parenchymatico-membranaceo-subindistincto, fuligineo; sporulis elliptico-fusoideis, utrinque acutiuscule rotundatis, 1-pluri-guttulatis, hyalinis, 5-9 \approx 2 $\frac{1}{2}$ -3.
Hab. ad folia arida Cynanchi Vincetoxici, in montanis Tavarsan prope Belluno in Italia bor.
287. **Phyllosticta Cucurbitacearum** Sacc. Mich. I. p. 145. — Maculis 287
epiphyllis vel amphigenis, variis, arescendo sordide albicantibus; peritheciis punctiformibus, 80-100 μ . diam., lenticularibus, pertusis; sporulis oblongis, 5-6 \approx 2 $\frac{1}{2}$, utrinque obtusiusculis, curvulis, 2-guttulatis, hyalinis.
Hab. in foliis Cucurbitæ Peponis, Vittorio in Italia bor. et Rouen in Gallia.
288. **Phyllosticta auctumnalis** Speg. F. Arg. Pug. II. n. 33. — Ma- 288
culis griseo-arescentibus, orbiculari-diformibus, quandoque zona ochracea vel purpurascenti-ochracea cinctis, $\frac{1}{2}$ -1 cent. diam.; peritheciis minutissimis, 80-90, atris, tenuissime membranaceis, contextu laxo parenchymatico, olivaceo, ostiolo latiusculo impresso donatis; sporulis ellipticis vel ovoideis, utrinque obtuse rotundatis, continuis vel rarius 1-septatis, quandoque inæquilateralibus, 8-10 \approx 2-3, hyalinis.
Hab. ad folia languida Trianospermæ ficifoliæ, en la Boca del Riachuelo in Argentina.
289. **Phyllosticta Portulacæ** Sacc. et Speg. Mich. I. p. 145. — Ma- 289

culis subcircularibus, arescendo dealbatis, margine elevato fuscescente; peritheciis lenticularibus, punctiformibus, 50-60 μ . diam., pertusis; sporulis ovoideis, 4-5 \approx 3, 2-guttulatis, hyalinis.

Hab. in foliis *Portulacæ oleracæ*, Selva in Italia bor.

290. **Phyllosticta Plantaginis** Sacc. Mich. I. p. 140. — Maculis subcircularibus, arescendo dealbatis; peritheciis sparsis, punctiformibus, e globoso lenticularibus, 60-80 μ . d., pertusis; sporulis oblongo-ovoidesve, 5 \approx 2, hyalinis.

Hab. in foliis *Plantaginis majoribus*, Selva in Italia bor. — Huc *Ascochyta Plantaginis* Sacc. Mycol. Ven. pag. 194 sed homonyma species Cesatiana verisimiliter ad *Septoriam* spectat.

291. **Phyllosticta Mercurialis** Desm. 17 Not. pag. 25. — Maculis albis, exaridis, minutis, indeterminatis, interdum confluentibus; peritheciis amphigenis, innatis, pallide succineis, dein fusco-nigricantibus, poro apertis; sporulis hyalinis, rectis, oblongis, utrinque obtusis, 1-septatis, vel 3-4 guttulis repletis, 40-50 μ . longis.

Hab. in foliis languescentibus *Mercurialis annuæ*, in Gallia et Belgio. — « Ob sporulas magnas et subinde 1-septatas a genere abhorret ».

292. **Phyllosticta Urticæ** Sacc. Mich. I. p. 141. — Maculis subcircularibus sinuosisque, arescendo dealbatis; peritheciis sparsis, punctiformibus, lenticularibus, 60 μ . diam., pertusis, contextu densiuscule parenchymatico; sporulis oblongo-ovoides, 5-6 \approx 3 $\frac{1}{2}$, hyalinis.

Hab. in foliis *Urticæ dioicæ*, Selva in Italia bor.

293. **Phyllosticta Humuli** Sacc. et Speg. Mich. I. p. 144. — Maculis variis, arescendo dealbatis; peritheciis punctiformibus, lenticularibus, 80-90 μ . diam., anguste pertusis, tenuiter membranaceis flavo-fuliginosis; sporulis oblongis, 6-9 \approx 4-5, utrinque rotundatis, rectis curvulisve, 1-2-3-guttulatis, hyalinis.

Hab. in foliis languidis *Humuli Lupuli*, Conegliano in Italia boreali.

294. **Phyllosticta Cannabis** (Kirchn?) Speg. Nov. Add. n. 150. *Depazea Cannabis?* Kirchn. in Lotos 1856, pag. 184. — Maculis epiphyllis, subcircularibus, fuscis, dein expallentibus; sporulis hyalinis, continuis, elliptico-cylindratis, rectis vel curvulis, minutissimis, 1-2-guttulatis, 4-6 \approx 2-2 $\frac{1}{2}$.

Hab. In foliis vivis vel languidis *Cannabis sativæ*, Belluno in Ital. boreali, et in Bohemia.

295. **Phyllosticta Gomphrenæ** Sacc. et Speg. Mich. I. p. 151. — Maculis vagis, latis, amphigenis, arescendo lutescentibus, fusco-cinctis;

peritheciis sparsis, punctiformibus, lenticularibus, pertusis, contextu laxo parenchymatico fuligineo; sporulis oblongo-ellipsoideis, 7-8 \approx 3, hyalinis.

Hab. in foliis *Gomphrenæ globosæ*, Conegliano Plezzo in Italia boreali.

296. **Phyllosticta Celosiæ** Thüm. Contr. Fl. Myc. Lusit. — Peritheciis epiphyllis, subgregariis, lenticularibus, fusco-atris, subparvis in macula plus minusve orbiculata, arescenti et dilacerata, pallide ochracea, zonata, fusco-griseo-cincta; sporulis simplicibus, cylindrico-ellipsoideis, utrinque rotundatis, enucleatis, achrois, 6-8,5 \approx 2,4-3,2.

Hab. ad folia viva *Celosiæ cristatæ*, Coimbra in Lusitania in horto botanico (MOLLER).

297. **Phyllosticta Molleriana** Thüm. Cont. Myc. Lusit. n. 378. — Peritheciis epiphyllis, punctiformibus, minutis, dense gregariis, fuliginosis, subemersis in macula exarida, sinuosa, ochraceo-grisea, magna, rubro-ferrugineo marginata; sporulis ellipticis, utrinque subrotundatis, non nucleatis, rectis, achrois, 5-6 \approx 3.

Hab. ad folia viva *Pyxidii* (*Amaranthi*) *melancholici*, Coimbra in Lusitania in horto botanico (MOLLER).

298. **Phyllosticta Betæ** Oudem. Ann. Mycol. Neder. 1875-76, p. 6. — Peritheciis exilissimis, innatis tandem poro apertis, in maculis decoloratis sparsis, nucleo gelatinoso; sporulis minutissimis ovoideis, achromis, non nisi aqua adhibita detegendis.

Hab. in foliis *Betæ vulgaris* cultæ, prope Harderovicum in Hollandia.

299. **Phyllosticta Atriplicis** Desm. Ann. Sc. nat. 1851, pag. 298. — Amphigena; maculis orbicularibus, albicantibus, obscurius marginatis, sparsis v. confluentibus; peritheciis epiphyllis, exiguis, numerosis, globosis, innatis, brunneo-atris, poro pertusis; cirris flavidis; sporulis cylindræo-ovatis, obtusis, rectis curvulisve, 3-6-guttulatis, interdum subtorulosis, hyalinis.

Hab. in foliis *Atriplicis* et *Chenopodii*, in Gallia, Germania, Belgio, Britannia. — *Dep. atriplicicola* Fr. S. M. II. p. 532. huc spectare videtur.

300. **Phyllosticta Polygonorum** Sacc. Mich. I. p. 141. — Maculis subcircularibus, arescendo dealbatis, amœne sanguineo-cinctis; peritheciis punctiformibus, remotiusculis; sporulis e globoso ovoideis, 4 \approx 2-2½, hyalinis.

Hab. in foliis *Polygoni Persicariæ*, Selva in Ital. bor.

301. **Phyllosticta? discors** Sacc. et Speg. Mich. I. p. 154. — Ma- 301
culis obsoletis; peritheciis densiuscule gregariis, amphigenis, punctiformibus, lenticularibus, atris, 80-120 μ . diam., pertusis, basi sæpius setulam unicam vel paucas aciculares, 80-100 \approx 3, septulatas, fuligineas gerentibus; contextu parenchymatico minuto; sporulis cylindræis, 20-25 \approx 4-4½, utrinque rotundatis, rectis v. curvulis, guttulatis v. nubilosis, hyalinis.
Hab. in foliis Rumicis Acetosæ, Conegliano in Ital. bor. (SPEGAZZINI). — An *Vermicularia*?
302. **Phyllosticta Acetosæ** Sacc. Mich. I. p. 151. — Maculis subcir- 302
cularibus, ferrugineo-fuscis; peritheciis epiphyllis, punctiformibus, lenticularibus, gregariis, pertusis; sporulis oblongis v. breve cylindræis, utrinque obtusis, 4-5 \approx 2, 2-guttulatis, hyalinis.
Hab. in foliis Rumicis Acetosæ, in Italia boreali.
303. **Phyllosticta Chenopodii** Sacc. Mich. I. p. 150, vix West. — Ma- 303
culis vagis irregularibus, sparsis v. confluentibus, arescendo ochraceis, subinde fusco-marginatis; peritheciis punctiformibus, lenticularibus, 50 μ . diam., pertusis; sporulis oblongo-ellipsoideis, 5 \approx 3, hyalinis.
Hab. in foliis Chenopodii polyspermi, Ch. viridis et Ch. urbici in Italia. — *Ph. Chenopodii* West. sporulis 15-20 \approx 7 potius *Septoriam Chenopodii* Desm. spectat.
304. **Phyllosticta Ambrosioidis** Thüm. Contr. Mycol. Lusit. n. 592. 304
— Peritheciis epiphyllis, sparsis vel subsolitariis, conico-globosis, semiimmersis, nigris, punctiformibus in macula plus minusve sinuosa, primo virescenti, postremo exarida, albo-grisea, parvula, fusco-violaceo-marginata; sporulis cylindræis, utrinque rotundatis, rectis, enucleatis, minimis, hyalinis, 4,5-5 \approx 1,5.
Hab. in foliis vivis Chenopodii ambrosioidis, Choupal pr. Coimbra (MOLLER).
305. **Phyllosticta Podophylli** (Curtis) Wint. *Ascospora Podophylli* 305
Curt. in Peck. 23 Rep. in the state Mus. — Maculis amphigenis, angulosis irregularibusque, determinatis, usque 12 (et ultra) mill. latis, interdum confluentibus, fuscis; peritheciis amphigenis, gregariis, plerumque secus nervos dispositis, globosis, atris, 100-120 μ . diam.; sporulis fere globosis vel ellipsoideis, hyalinis, guttula oleosa magna præditis, 8-9 \approx 5-6.
Hab. ad folia viva Podophylli peltati, Kentucky, Bethlehem etc. in America boreali.
306. **Phyllosticta Vincæ** Thüm. Contr. Fl. Myc. Lusit. — Peritheciis 306

hypophyllis, gregariis, semiimmersis, minutis, globulosis, nigris in macula magna, irregulari, fusco-grisea, anguste cincta, subtus pallidior, vix arescente; sporulis minutissimis, ellipsoideis vel globoso-ellipticis, simplicibus, enucleatis, $2,5 \approx 1,5-2$, achrois.

Hab. in foliis vivis Vincæ mediæ, St. Antonio dos Oliveas pr. Coimbra in Lusitania (MOLLER).

307. **Phyllosticta Pulmonariæ** (Fuck.) Sacc. *Ascochyta Pulmonariæ* 307

Fuck. Symb. p. 386. — Peritheciis in macula fusca, gregariis, minutis, conicis, atro-nitidis; sporulis minutissimis, globosis.

Hab. in pag. sup. foliorum Pulmonariæ, in Jura in Helvetia (MORTIER).

308. **Phyllosticta primulicola** Desm. 14 Not. pag. 30. — Maculis am- 308

phigenis, magnis, albidis, exaridis, sæpe luteolo-cinctis; peritheciis epiphyllis, numerosis, prominulis, globosis, nigris, nitidis; sporulis subglobosis, perexiguis (teste Cooke).

Hab. in foliis languentibus Primulæ veris et elatioris, in Gallia, Belgio, Britannia.

309. **Phyllosticta lutetiana** Sacc. Mich. I. p. 159. — Maculis subcir- 309

cularibus, arescendo pallide ochraceis, anguste castaneo-cinctis; peritheciis sparsis, punctiformibus, pertusis; sporulis ovoideis, $5 \approx 4$, e hyalino olivaceis.

Hab. in foliis Circææ lutetianæ, Selva in Ital. bor.

310. **Phyllosticta hydrophila** Speg. Nov. Add. n. 152, Mich. II. p. 277. 310

— Peritheciis in maculis fuscescentibus, subcircularibus, indeterminatis insidentibus, primo parenchymati immersis, dein prominulis, globoso-lenticularibus, minutis, $150-180 \mu. d.$, contextu fuligineo, parenchymatico, densiusculo; sporulis cylindræo-fusiformibus, arcuato-curvatis, utrinque acutiusculis, hyalinis, $5-7 \approx 1\frac{1}{2}-2$.

Hab. in foliis languidis Nymphææ albæ, in paludosis litoris Veneti.

311. **Phyllosticta Globulariæ** West. Bull. Ac. Belg. II. Ser. t. XII. 311

n. 7. — Maculis subrotundis, fuscis, centro expallentibus, linea fusco-nigricante cinctis; peritheciis epiphyllis, sparsis, punctiformibus, nigrescentibus, poro pertusis; sporulis ovoideis, hyalinis, 2-guttulatis.

Hab. in foliis Globulariæ vulgaris, in Belgio (CRÉPIN).

312. **Phyllosticta Erythrææ** Sacc. et Sp. Mich. I. p. 152. — Macu- 312

lis nullis; peritheciis per totum folium flavescens remote sparsis, globoso-lenticularibus, prominulis, atris; sporulis oblongo-el-

lipsoideis, 7-10 \approx 2½-3, medio sæpe leniter contractis, 2-guttulatis, hyalinis.

Hab. in foliis Erythrææ Centaurii, Conegliano in Italia boreali.

313. **Phyllosticta Ebuli** (Fuck.) Sacc. *Ascochyta Ebuli* Fuck. Symb. 313 pag. 386. — Peritheciis in maculis expallescentibus, gregariis, conicis, fuscis, apice candidis; sporulis minutis, cylindræis, simplicibus.

Hab. in foliis languidis Sambuci Ebuli, in Germania et Ital. 314

314. **Phyllosticta Nesææ** Peck. 34 Rep. St. Mus. p. 44. — Maculis subcircularibus, sparsis v. confluentibus, pallide rufis; peritheciis hypophyllis, exiguis, numerosis; sporulis oblongis, rectis curvulisve, hyalinis, 7-10 \approx 2,5.

Hab. in foliis vivis Nesææ verticillatæ, South Ballston in America boreali.

315. **Phyllosticta Wigandiæ** Thüm. Contr. Fung. Lit. n. 206, tab. I. 315 f. 1. — Peritheciis mediis, epiphyllis, semiimmersis, hemisphæricis, sparsis, nigris in macula grisea, exarida, corrosa, parva; sporulis generis, minutis, 8-10 \approx 4, achrois.

Hab. ad folia viva Wigandiæ imperialis, in calidariis agri Goritiensis.

316. **Phyllosticta Phytolaccæ** Cooke Grev. XII. p. 25. — Epiphyl- 316 la; maculis orbicularibus, fuscis; peritheciis minutis, semiinnatis, fuscis; sporulis breviter linearibus, obtusis, hyalinis, rectis, 8 \approx 1,5.

Hab. in foliis Phytolaccæ, in Carolina australi (RAVENEL).

317. **Phyllosticta Gillesii** Speg. F. Argent. Pug. III. n. 270. — Ma- 317 culis orbicularibus, determinatis, 2-5 mill. diam., arescenti-albescens, amphigenis; peritheciis centralibus, epiphyllis, lenticulari-globosis, 70-80 μ . diam, tenuissime membranaceis, contextu parenchymatico, olivaceo-fusco; sporulis ellipticis v. elliptico-cylindræis, rectis v. curvulis, utrinque obtusiusculis, non v. 1-guttulatis, 7-10 \approx 3-3,5, hyalinis.

Hab. in dumetis ad folia viva Philibertiæ Gillesii, en los Montes Grandes in Argentina.

318. **Phyllosticta Thermopsidis** Thüm. Pilzfl. Sibir. n. 802. — Peri- 318 theciis hypophyllis, dense gregariis, sine ordine dispositis, pro ratione magnis, hemisphærico-prominulis, primo tectis, demum liberatis, semiimmersis, nitido-atris in macula magna, irregulari, arescendo sordide fusca; sporulis bacillaribus, utrinque subrotundatis, enucleatis, continuis, rectis, hyalinis, 4-5,5 \approx 1,5-2.

Hab. in foliis vivis languidisve *Thermopsis lanceolata*, in desertis prope Minussinsk in Sibiria.

III. In plantis monocotyledoneis et acotyledoneis.

319. **Phyllosticta ruscicola** Dur. et Mont. Fl. Alg. I. p. 611. Desm. 319
Not. XIV. 32. — Maculis subcircularibus vagisve, arescendo albicantibus, brunneo-cinctis; peritheciis minutis, globoso-lenticularibus, initio tectis; sporulis oblongis, 7-8 \approx 3 $\frac{1}{2}$, lutescenti-vidulis.

Hab. in cladodiis *Rusci aculeati*, *R. hypophylli*, *R. androgyni* et *R. Hippoglossi*, socia *Leptosphaeria Rusci* (Wallr.) Sacc., cujus est probabile spermogonium, in Italia, Belgio, Gallia, Britannia, Austria, Lusitania.

320. **Phyllosticta Tami** Sacc. Mich. I. pag. 142. — Maculis subcircularibus oblongisve, arescendo expallentibus, rufo-marginatis; peritheciis punctiformibus, lenticularibus, pertusis, laxe ochraceo-parenchymaticis; sporulis oblongo-cylindræis, 7-8 \approx 3-4, ad medium quandoque subconstrictis (sed continuis), utrinque rotundatis et 1-guttulatis, hyalinis.

Hab. in foliis *Tami communis*, Conegliano in Ital. bor.

321. **Phyllosticta melanoplaca** Thüm. Pilzfl. Sibir. n. 808. — Peritheciis numerosis, densissime gregariis confluentibusque, minimis; maculas lineares, longas, nervisequentes, nigras efficiens; sporulis cylindricis, utrinque truncatulis, continuis, interdum medio subinflexis, rectis, enucleatis, hyalinis, 4-5 \approx 2.

Hab. ad folia viva languidave *Veratri albi*, in pratis subalpinis pr. fluvium Irba in Sibiria.

322. **Phyllosticta liliicola** Sacc. Fungi Ven. Ser. II. p. 303. Mich. I. 322
p. 152. — Maculis nullis v. obsoletis; peritheciis hinc inde congregatis, amphigenis, punctiformibus, globulosis, pertusis; sporulis ovoideis, 10 \approx 3, 2-guttulatis, hyalinis.

Hab. in foliis languidis *Lilii candidi*, Selva in Ital. boreali, socia *Sphaerella Maturna* Sacc., cujus spermogonium videtur.

323. **Phyllosticta Dioscoreæ** Cooke Grev. VIII. 136. *Septoria Dioscoreæ* Cooke Hedw. 1878, p. 38. — Maculis intense ochraceis; peritheciis lenticularibus, pertusis, 100 μ . diam.; sporulis ovoideis, 7 \approx 5-6, granulosis, hyalinis.

Hab. in foliis *Dioscoreæ*, Aiken in Carolina, et in Gallia austr. 324

324. **Phyllosticta cruenta** (Fr.) Kx. Flandr. I. 412. Mich. I. p. 142

et 341, *Sphæria cruenta* Fr. S. M. II. p. 581. — Maculis subcircularibus oblongisve, amœne sanguineis, dein centro pallentibus; peritheciis gregariis sparsisve, epiphyllis, globoso-lenticularibus, astomis, contextu compacto, crassiusculo, atro-olivaceo; sporulis ovato-oblongis, 14-16 \approx 5,5-6,5, curvulis, intus granulosis; basidiis cylindræis, brevibus, 10-12 \approx 4 suffultis.

Hab. in foliis Polygonati multiflori, officinalis et Smilacinæ, in Italia, Germania, Gallia, Lusitania, Belgio, Sibiria, America boreali.

325. **Phyllosticta Uvariæ** Berk. in Curr. Simpl. Sphær. n. 387, f. 325 147. — Maculis subcircularibus v. irregularibus, centro brunneis, obscuriusque marginatis; peritheciis perexiguis, nigris; sporulis ellipsoideis v. subglobosis, 5-10 μ . long., hyalinis.

Hab. in foliis Uvariæ trilobæ (cultæ?).

326. **Phyllosticta Donckelaeri** West. 5 Not. n. 60. — Maculis hypo- 326
phyllis subcircularibus, magnis, albido-cinereis, margine subelevato rufo-fusco; peritheciis semiinnatis, copiosis, nigris, nitidulis, subconcentricis, pertusis; sporulis ovato-cylindræis, hyalinis, 15 \approx 3, 2-3-guttulatis.

Gab. in foliis Oncidii, in calidariis Gand urbis Belgicæ (J. DONCKELAER).

327. **Phyllosticta Orontii** Ell. et Mart. Amer. Nat. 1882, p. 1002. — 327
Maculis latis flavicantibus, obsolete marginatis; peritheciis epiphyllis, brunneis, 56 μ . diam.; sporulis ovoideis, 6 \approx 2,5.

Hab. in foliis Orontii aquatici, New Jersey in Amer. bor.

328. **Phyllosticta acorella** Sacc. et Penz. Mich. II. p. 620. — Ma- 328
culis oblongis deustis; peritheciis amphigenis, gregariis, punctiformibus, fusco-nigris; sporulis cylindræis, utrinque subincrassatis (ossiformibus), perexiguis, 3,5-4 \approx 1-1,5.

Hab. in foliis languidis Acori Calami, in Gallia (THERRY).

329. **Phyllosticta Acori** Oud. Aanw. Myc. Nederl. 1876, pag. 6. — 329
Maculis elongatis nigris; peritheciis minutissimis, non nisi folio dissecto detegendis, atris; sporulis exilissimis, ovalibus, gelatina nidulantibus.

Hab. in foliis Acori Calami, in Hollandia. — Cellulæ perithecii circa ostiolum in fila subtilia flagelliformia, achroma, denique septata mox abeunt.

330. **Phyllosticta Cocos** Cooke in Grevillea. — Maculis pallidis, ir- 330
regularibus, subellipticis, brunneo-cinctis; peritheciis punctiformibus, atris; sporulis arcte ellipticis, 8 \approx 3.

Hab. in foliis *Cocos nuciferæ*, Belgaum in India (HOBSON).

331. **Phyllosticta Curreyi** Sacc. *Sphæria* (Depazea) *Alismatis* Curr. 331

Simpl. Sphær. p. 334, f. 154. — Peritheciis subglobosis, castaneis (saltem in sicco); sporulis ellipsoideis, subglobosis v. turbinatis, basi subinde apiculatis (stipitatis?), hyalinis, marginatis, 10–13 μ . long.

Hab. in foliis *Alismatis Plantaginis*, Suffolk in Britannia (Strock). — A *Ph. Alismatis* Sacc. et Speg. diversa.

332. **Phyllosticta Alismatis** Sacc. et Speg. Mich. I. p. 144. — Ma- 332

culis latis, arescendo albicantibus, fuligineo-cinctis; peritheciis gregariis, sublenticularibus, nigricantibus; sporulis oblongo-ellipsoideis, 8 \approx 3 $\frac{1}{2}$, utrinque rotundatis, hyalinis.

Hab. in foliis *Alismatis Plantaginis*, in Italia boreali, Sibiria et Lusitania.

333. **Phyllosticta aquatica** Speg. in Mich. I. pag. 483. — Peritheciis 333

subepidermicis, lenticularibus, 100–110, ostiolo latiusculo, 10 μ . diam., pertuso; contextu laxissime et tenuissime parenchymatico-membranaceo, olivaceo; sporulis ellipticis, utrinque obtusiusculis, quandoque inæquilateralibus, hyalinis, 4–5 \approx 2.

Hab. ad folia putrida *Lemnæ minoris*, prope Conegliano in Italia boreali.

334. **Phyllosticta Draconis** Berk. in Welw. F. Port. p. 5. 334

Hab. in foliis *Dracænæ Draconis*, Ajuda in Lusitania et Collioure in Gallia. — Exemplaria in F. Gall. n. 233 nil *Phyllostictæ* præbent. Cl. Berkeley nullam diagnosim refert quia specimina lusitanica omnino sterilia.

335. **Phyllosticta Aloes** Kalch. Grevill. IX. pag. 20. — Epiphylla; 335

maculis ellipticis, aurantio-fuscis; peritheciis membranaceis, gregariis, fuscis, immersis; sporulis ellipticis, profusis, hyalinis, 5 μ . longis.

Hab. in *Aloe latifolia*, in Africa australi.

336. **Phyllosticta Renouana** Sacc. et Roum. Reliq. Myc. Lib. IV. p. 336

117. — Maculis elongatis, cinnamomeis, centro expallentibus; peritheciis globoso-lenticularibus, innatis punctiformibus; sporulis ovato-ellipsoideis, 4 \approx 2, hyalinis.

Hab. in foliis *Typharum*, in Gallia et Germania.

337. **Phyllosticta typhina** Sacc. et Malb. Mich. II. pag. 88. — Ma- 337

culis oblongis, amphigenis, rubiginosis, centro pallidioribus, majusculis; peritheciis centralibus, lenticularibus, pertusis, 100–110 μ . diam., contextu tenui, parenchymatico, fulvello; sporulis ovoideis, 4 \approx 1 $\frac{3}{4}$ –2, 2-guttulatis, hyalinis.

- Hab.* in foliis nondum emortuis *Typhæ latifoliæ*, in Gallia centrali (MALBRANCHE).
338. **Phyllosticta sorghina** Sacc. Mich. I. p. 140. — Maculis sinuo- 338
sis, variis, expallentibus, zona sanguinea cinctis; peritheciis puncti-
formibus, sparsis, pertusis; sporulis ellipsoideis, utrinque rotunda-
tis, 5 = 2, 2-guttulatis, hyalinis.
Hab. in foliis *Sorghii vulgaris*, socia *Ascochyta Sorghi*
Sacc. et *Sphærella Cerere* Sacc., cujus est probabile spermogonium,
Selva in Ital. bor.; et in *Sorgho halepensi*, pr. Coimbra in Lu-
sitania. — *Phyll. Sorghi* Anzi in Rabh. F. E. n. 2162 sistit for-
mam leptostromaceam v. phyllachoraceam, cujus sporas proprias
non vidi.
339. **Phyllosticta hæmatocykla** Berk. in Welw. F. Portug. p. 5. — 339
Maculis latissimis, pallidis, rufo-cinctis; peritheciis parcis submar-
ginalibus; sporulis oblongo-subclavatis; sporophoris clavatis.
Hab. in foliis *Phormii tenacis*, Lisboa in Lusitania.
340. **Phyllosticta Caricis** (Fuck.) Sacc. *Ascochyta Caricis* Fuck. Symb. 340
Myc. p. 386. — Peritheciis hypophyllis in macula fusca, sparsis,
hemisphæricis, astomis, atro-nitidis; *Sphærellæ punctifor-*
mis magnitudine; sporulis numerosis, cylindræis, rectis, continuis,
hyalinis.
Hab. in foliis vivis *Caricis muricatæ*, prope Vollrads in
Germania.
341. **Phyllosticta? scirpicola** (Lév.) Sacc., *Cheilaria scirpicola* Lév. 341
Fragm. mycol. in Ann. Sc. nat. 1848, p. 252. — Peritheciis inna-
tis, subglobosis vel ovatis, nigris, rima longitudinali dehiscentibus,
disco concolori; sporulis minutis, ovato-elongatis, subfusiformibus,
continuis.
Hab. ad culmos *Scirpi palustris*, Meudon prope Parisios.
342. **Phyllosticta crastophila** Sacc. Mich. I. p. 153. — Maculis ob- 342
soletis v. sordide ochraceis; peritheciis late sed laxiuscule grega-
riis, globoso-lenticularibus, innato-prominulis, atris; sporulis ob-
longis, 5-6 = 2, rectis, utrinque obtusiusculis, 2-guttulatis, hyalinis.
Hab. in foliis *Setariæ verticillatæ*, Selva in Italia bor.
343. **Phyllosticta Marchantiæ** Sacc. Mich. I. p. 144. — Maculis vagis, 343
epiphyllis, arescendo dealbatis, fusco-cinctis; peritheciis puncti-
formibus, atris, lenticularibus, 70-80 μ . diam., pertusis; sporulis
oblongo-cylindræis, 5 = 1, curvulis rectisve, 2-guttulatis, hyalinis.
Hab. in fronde *Marchantiæ*, Sernaglia (Treviso) in Italia
boreali.

344. **Phyllosticta Peltigeræ** Karst. Hedw. 1884, p. 62. — Peritheciis 344
maculæ dealbatæ insidentibus, laxè gregariis, emergentibus, rotun-
datis, astomis, subnitentibus, atris, 0,2 mill. lat.; sporulis oblonga-
tis, rectis, eguttulatis, 3-6 = 2.

Hab. in thallo semiemortuo Peltigeræ caninæ, ad Mu-
stjala in Fennia.

345. **Phyllosticta innumera** Cooke et Harkn. Grevill. IX. p. 81. — 345
Hypophylla; peritheciis exiguis, aliis in maculas orbiculares di-
spositis, aliis in plagas maximas gregariis; sporulis ellipticis, hya-
linis, continuis, 4,5 = 2.

Hab. in foliis viventibus (cujus plantæ?), in America boreali.

APPENDIX

Depazea Fr.: Species sporulis ignotis ergo dubiæ *).

346. **Depazea Impatientis** Kirchn. in Lotos 1856, p. 184. 346
Hab. in foliis vivis Impatientis Nolitangere, in Germa-
nia, Austria et Sibiria.
347. **Depazea Hydrocotyles** Rabh. in Kl. Herb. Myc. 1143. 347
Hab. in foliis Hydrocotyles vulgaris in Germania.
348. **Depazea calthæcola** DC. Fl. franc. — Maculis albis vix circum- 348
scriptis; peritheciis minutis, sparsis, planis, nigris.
Hab. in foliis Calthæ, in Gallia. — Maculæ 1 lin., frequen-
tes, rotundatæ, ovales v. confluentes, sæpe steriles; perithecia epi-
phylla videntur.
349. **Depazea Lychnidis** Fr. in Myc. Heft II. p. 53 et S. M. II. 531. 349
— Maculis indeterminatis, albicantibus; peritheciis hemisphæricis,
prominulis; disco demum nudo, opaco, rugoso, atro.
Hab. in foliis Lychnidis viscaria, in Germania.
350. **Depazea gentianæcola** (DC.) Fr. S. M. II. pag. 531, *Sphæria* 350
gentianæcola DC. Fl. franc. — Maculis rufescentibus, subzonatis,
vix circumscriptis; peritheciis centrali-confertis, convexis, nigris.
Hab. in foliis Gentianæ luteæ et cruciatæ, in Germa-
nia, Gallia et Helvetia. — Maculæ orbiculares, unciales, punctis
numerosis, perexiguis.

*) Plures aliæ species sub nomine *Depazeæ* et *Ascochyte* in Klotzschii, Raben-
horstii, Kirchneri exsiccatis librisque reperiuntur vel sine diagnosi vel cum diagnosi
imperfecta. Quum vero hæ formæ ad *Phyllostictæ* vel *Septoriæ* vel *Ascochyte* spe-
cies jam rite cognitæ verisimiliter spectent, hic penitus omittuntur.

351. **Depazea Aquilegiæ** Rabh. in Klotzsch, Herb. mycol. n. 1651. 351
Hab. in foliis Aquilegiæ, in Germania et Sibiria.
352. **Depazea Erdingeri** Thüm. F. austr. n. 697. — Peritheciis mi- 352
 nimis, numerosis, globosis, atris in maculis expallescens, ari-
 dis, griseis.
Hab. in foliis Sisymbrii Lœselii, in loco unico, prope
 Krems in Austria.
353. **Depazea Linnææ** Ehrenb. — Maculis candidis, ambitu lato ro- 353
 seo; peritheciis gregariis, epiphyllis, minimis, hemisphæricis, sub-
 concavis, atro-nitidis.
Hab. in foliis Linnææ borealis, in Germania.
354. **Depazea Lythri** Kirchn. in Lot. 1856, p. 202. 354
Hab. in foliis Lythri Salicariæ, in Germania et Austria.
355. **Depazea Acetosæ** Op. Seznam rostlin p. 120. 355
Hab. ad folia viva Rumicis Acetosæ, in Austria et Sibiria.
356. **Depazea** (Phyllosticta) **Veronicæ** Lacaille in Rev. Myc. II. p. 62. 356
 (tantum nomen).
Hab. in foliis Veronicæ speciosæ, prope Bolbec, Havre in
 Gallia.
357. **Depazea** (Phyllosticta) **Cymbalarïæ** Lacaille in Rev. Myc. II. 357
 p. 62.
Hab. in foliis Linariæ Cymbalarïæ, prope Bolbec, Havre
 in Gallia.
358. **Depazea Lycoctoni** Kirchn. Lotos 1856, p. 184. 358
Hab. in foliis Aconiti Lycoctoni, in Bohemia merid.
359. **Depazea adoxicola** Lasch, in Kl. Herb. myc. 1648. 359
Hab. in foliis Adoxæ Moschatellinæ, in Germania.
360. **Depazea Agrimonïæ** Lasch, in Kl. Herb. myc. n. 1356. 360
Hab. in foliis Agrimonïæ, in Germania.
361. **Depazea Asperulæ** Lasch, in Kl. Herb. myc. n. 1867. 361
Hab. in foliis Asperulæ, in Germania.
362. **Depazea Trientalis** Lasch, in Kl. Herb. myc. n. 364, Rabenh. 362
 Deut. Cr. F. n. 1250. — Maculis albis, brunneo-cinctis; peritheciis
 globosis, prominulis, atris.
Hab. in foliis Trientalis europææ, in Germania.
363. **Depazea Meliloti** Lasch, in Kl. Herb. myc. n. 370. — Maculis 363
 ochraceo-fuscis, obsolete marginatis; peritheciis grandiusculis,
 brunneo-atris, subumbilicatis, subconcentricis.
Hab. in foliis Meliloti vulgaris, in Germania.
364. **Depazea polygonicola** Lasch, in Kl. Herb. viv. mycol. n. 566. 364

- Hab.* in foliis Polygoni et Fagopyri, in Germania et Austria.
365. **Depazea balloticola** Fr. S. M. II. p. 532. — Maculis albido-rufescentibus, ambitu fusco cinctis; peritheciis minimis, sparsis, convexis, nigris. 365
- Hab.* in foliis Ballotæ nigræ, in Suecia, Germania et Italia.
366. **Depazea Pirolæ** Ehrenb. Ber. p. 29. — Maculis purpureis, demum nigricante-cinctis; peritheciis gregariis, hemisphæricis, demum collapsis ruptis. 366
- Hab.* in foliis Pirolæ umbellatæ et secundæ, in Germania. — Perithecia tecta, atra, nitida, interdum conflua.
367. **Depazea** (Phyllosticta) **glauca** Cooke in Rav. Fung. Amer. n. 93 (sub *Septoria*). — Maculis circulari-sinuosis, epiphyllis, albidis, atro cinctis; peritheciis gregariis, punctiformibus, atris; sporulis..... (a me non inventis et a Cooke non descriptis). 367
- Hab.* in foliis Magnoliæ glaucæ, Gainesville in Amer. bor.
368. **Depazea** (Phyllosticta) **Coluteæ** Fiedl. in Rabenh. F. E. n. 877, Hedw. 1875, p. 159 (nulla descriptio). 368
- Hab.* in foliis Coluteæ, in Germania.
369. **Depazea celastrina** Lév. An. Scienc. Nat. 45, p. 55. — Maculis albo-sordidis, ambitu nigris; peritheciis sparsis vel gregariis globosis, nudis, demum depressis, epidermide fissa tectis. 369
- Hab.* ad folia Celastris, in Nova Calædonia (Labillardière).
370. **Depazea tremulæcola** DC. Fl. franc. VI. p. 147. — Maculis orbiculatis, fuscis; peritheciis epiphyllis, sphæricis, nitidis, in centro griseo, confluenta-stipatis. 370
- Hab.* in foliis Populi tremulæ, in Suecia, Gallia, Germania et Italia. — Maculæ minutæ, 1-2 lin. latæ, in ambitu absque peritheciis, quæ confertissima, nitida, vix circumscissa.
371. **Depazea carpinea** (Schwein.) Fr. S. Myc. II. p. 530, *Xyloma carpineum* Schw. Carol. n. 287. — Macula pallida; peritheciis punctiformibus, subconcentricis sparsisque, elevatis, nigro-fuscis. 371
- Hab.* in foliis Carpini, in Carolina (SCHWEINITZ).
372. **Depazea Arecæ** Spreng. V. A. H. p. 52. — Maculis indeterminatis, obsoletis, pallescentibus; peritheciis epiphyllis, hemisphæricis, prominulis, nitidis, stellulato-stipatis. 372
- Hab.* in foliis Arecæ oleracææ. — Perithecia in cæspitulos, lineam latos, aggregata, sed non confluentia, folium leviter dealbantia, glabra, nigra, intus fusca, demum disco collapsis nudo subpulverulento.

373. **Depazea** (Phyllosticta) **Sagittariæ** Rabh. Fungi europ. n. 553 373
(absque diagnosi).
Hab. in foliis *Sagittariæ sagittifoliæ*, Knielingen et Hat-
tenheim in Germania, et Minussinsk in Sibiria.
374. **Depazea smilacicola** Rabh. in Klotz. Herb. myc. n. 1148. 374
Hab. in foliis *Smilacis*, Ancona in Italia. — An eadem ac
Septoria smilacina?
375. **Depazea** (Phyllosticta) **Palmarum** R. Rabh. Hedw. 1876, p. 120, 375
F. Eur. n. 2161. — Maculis sinuosis, amphigenis, expallentibus,
atro-marginatis; peritheciis..... nullis visis.
Hab. in foliis nondum emortuis *Palmarum*, in insula Car-
men (Campeche Bay). — Legit RUD. RABENHORST filius.
376. **Depazea Cypripedii** Kirchn. in Lotos 1856, p. 202. 376
Hab. in foliis *Cypripedii*, in Bohemia meridionali.
377. **Depazea** (Phyllosticta) **Sorghii** Anzi in Hedw. 1876, p. 120, F. 377
Eur. n. 2162. — Maculis amphigenis, sinuosis, oblongis, centro ni-
gricantibus, zona albida, sanguineo-marginata cinctis; perithe-
ciis..... nullis visis.
Hab. in foliis *Sorghii saccharati* et vulgaris, in Ita-
lia boreali.
378. **Depazea crispans** Fr. Elench. Fung. II. p. 111. — Maculis latis, 378
indeterminatis, griseis, in ambitu fulvis; peritheciis semiimmersis,
prominulis, confertis, globosis.
Hab. in foliis *Convallariæ bifoliæ*, in Gallia (MOUGEOT).
— Peritheciis globosis!, subtectis, semiimmersis, persistentibus, et
habitu bene differt hæc species. Maculæ late effusæ, submargina-
les, folia contorta reddunt.
379. **Depazea paridicola** Rabenh. in Kl. Herb. myc. n. 868. 379
Hab. in foliis *Paridis*, in Germania.

PHOMA Fr. em. Desm. XIII. Not. p. 6, Sacc. Mich. II. p. 4. (Etym.
phos, pustula). *Clisosporium* Bon., *Sphæropsis* Lév. et Auct. p. p.,
Gerulajacta Preuss p. p., *Coniothyrium* Auct. p. p., *Sporonema*
Desm. p. p. — Perithecia subcutanea, dein erumpentia, membra-
nacea, subcoriacea v. subcarbonacea, globosa v. compressa, glabra,
erostria, ostiolo minuto, subinde obsoleto. Sporulæ ovoideæ, fusoi-
deæ, cylindraceæ, rarius sphæroideæ, continuæ, hyalinæ, ut plu-
rimum 2-guttatæ. Basidia filiformia, subinde brevissima v. obso-
leta, simplicia, raro furcata. — Genus vastissimum, tædiosum, in
plura facile dividendum; quod ipse fecissem, si species omnes ple-

nus cognitæ essent. Adsunt enim species, aptius separandæ, perithecio subastomo depresso, basidiis demum uncinatis instructæ (*Phomopsis*) spermogonia *Diaporthes* sistentes; aliæ perithecio subrimoso compresso ornatae (*Hysterophoma*). Species vero epixylas a *Phoma* separavi (*Aposphæria*) nec non illas basidiis verticillato-ramosis instructas (*Dendrophoma*). *Sphæropsidis* Lév. et Auct. species hyalosporæ a *Phoma* distingui nequeunt, nisi quia iis sporulæ et perithecia plerumque paulo crassiora sint, quibus vero notis subgenus aliud (*Macrophoma*) institui potest.

I. In *Dicotyledoneis lignosis*.

A) Ramicolæ.

1. **Phoma occidentalis** Sacc. Mich. II. p. 95. — Peritheciis gregariis, 380
epidermide velatis, globoso-depressis, nucleo olivascente; sporulis fusoidis, $10 \approx 2$, minute 2-guttulatis, hyalinis; basidiis non visis.
Hab. in ramulis Gleditschiæ Triacanthi, Rouen in Gallia (LETENDRE). — Sperm. *Diaporthes*.
2. **Phoma Gleditschiæ** (Thüm.) Sacc. *Coniothyrium Gleditschiæ* Thüm. 381
Symb. Myc. Austr. I. n. 6. — Peritheciis sparsis, immersis, subglobosis, fere tuberculi-formibus, rimosis, atro-fuscis, magnis; sporulis globosis vel ellipsoideis, simplicibus, numerosis, $3-4 \approx 2,5-3$, achrois.
Hab. ad ramos, spinasque emortuas Gleditschiæ Triacanthi, Klosterneuburg in Austria.
3. **Phoma mamillaris** B. et C. *Sphæropsis mamillaris* B. et C. North 382
Am. Fung. n. 412. — Peritheciis sparsis vel congestis, mamillæformibus, cuticula cinctis; sporulis oblongo-obovatis, hyalinis, $15 \approx 5$.
Hab. in ramis Gleditschiæ, in Carolina inf., regione Americæ borealis.
4. **Phoma Vincentiana** Speg. F. Arg. Pug. I. pag. ~~182~~ 189 — Peritheciis 383
sparsis, primo subepidermicis, tectis, dein ob corticem secedentem liberis, globoso-conoideis, $\frac{1}{3}-\frac{1}{4}$ mill., rugulosis, membranaceo-carbonaceis, atris, ligno immutato vel infuscato adnatis; sporulis elongato-ellipticis, utrinque acutiuscule rotundatis, $8-10 \approx 3-4$, et uniguttulatis, continuis, hyalinis; basidiis cylindræis, hyalinis, $15 \approx 1-2$, suffultis.
Hab. in ramulis Parkinsoniæ aculeatæ, S. Vincent, insula Africæ, et prope Buenos-Aires in Argentina, regione Americæ meridionalis.
5. **Phoma Cassiæ** Sacc. Mich. II. pag. 145. — Peritheciis gregariis, 384

epidermide albicante velatis, globoso-depressis, 110 μ . diam., per-
tuis; sporulis breve fusoides, 6-8 \approx 1 $\frac{3}{4}$ -2, 2-guttulatis, hyalinis;
basidiis teretiusculis, æquilongis, suffultis.

Hab. in ramis Cassiæ occidentalis, in Carolina, regione
Americæ borealis (RAVENEL). — Spermogonium *Diaporthes*.

6. **Phoma Coluteæ** Sacc. et Roum. Mich. II. p. 338. — Peritheciis 385
gregariis, lenticularibus, $\frac{1}{3}$ mill. diam., initio epidermide cinere-
scente velatis, griseis; sporulis oblongis, 7 \approx 3, 2-guttulatis, hya-
linis; basidiis subæquilongis suffultis.

Hab. in ramis Coluteæ arborescentis, prope Toulouse in
Gallia. — Spermogonium *Diaporthes*.

7. **Phoma Coronillæ** West. Exs. n. 966. — Peritheciis sparsis, gre- 386
gariisque exiguis, subglobosis, innato-erumpentibus; nucleo albido;
sporulis ovato-oblongis, 7-8 \approx 3, biguttulatis, hyalinis; basidiis fi-
liformibus, arcuatis, 20 \approx 1,5.

Hab. in ramulis emortuis Coronillæ Emeri, in Belgio et
Italia. — Spermogonium *Diaporthes Coronillæ* Sacc.

8. **Phoma inæqualis** Speg. F. Arg. Pug. II. pag. 128. — Peritheciis 387
densiuscule sparsis, ligno insculptis, cortice et linea stromatica te-
ctis circumscriptisque, minutis; sporulis elliptico-elongatis, inæqui-
lateralibus, biguttulatis, utrinque acutato-rotundatis, 7-10 \approx 2-3,
hyalinis.

Hab. in ramulis dejectis emortuis Ulicis europæi, in hor-
tis San José de Flores in Argentina. — Status spermogonicus
Diaporthes inæqualis Nits.

9. **Phoma Spartii** Sacc. Mich. I. p. 359. — Peritheciis gregariis, cor- 388
tice velatis, dein, ipso secesso, superficialibus, basi ligno insculptis,
oblongis, quandoque subhysteriiformibus, $\frac{1}{3}$ - $\frac{1}{5}$ mill., nigris; ostiolo
sæpe rimose dehiscente; sporulis fusoides, 10-11 \approx 2-2 $\frac{1}{2}$, 2-guttu-
latis, hyalinis; basidiis filiformibus, curvis, 20-22 \approx 1 $\frac{1}{2}$ -2, suffultis.

Hab. in trunco Spartii, prope Alençon in Gallia (C. C. GIL-
LET). — Verisimiliter status spermogonicus *Diaporthes* cujusdam.

10. **Phoma Sophoræ** Sacc. F. Ven. Ser. V. p. 202. — Peritheciis sub 389
epidermide denique minute fissa nidulantibus, lenticularibus, atris
plagulasque sinuosas quandoque in cortice superiore nigrolimita-
tas efformantibus, $\frac{1}{4}$ mill. diam.; sporulis oblongo-ovoideis, 8-10
 \approx 3 $\frac{1}{2}$ -4, 2-guttulatis, hyalinis; basidiis filiformibus, hamatis, 25
 \approx $\frac{1}{2}$, fultis.

Hab. in ramis Sophoræ japonicæ, in Italia boreali, Au-
stria et Gallia merid. — Spermogonium *Diaporthes*.

11. **Phoma Siliquastri** Sacc. Mich. II. p. 341. — Peritheciis dense 390
gregariis, globoso-depressis, subcutaneis vix erumpentibus, griseis;
sporulis oblongo-subfusoideis, 6-7 \approx 2-2 $\frac{1}{2}$, hyalinis.
Hab. in ramulis corticatis Cercidis Siliquastri, Saintes in
Gallia (BRUNAUD). — Spermogonium *Diaporthes*.
12. **Phoma Sarothamni** Sacc. Cfr. Syll. II. p. 663. — Peritheciis 391
globoso-depressis, subcutaneo-erumpentibus; sporulis oblongo-fu-
soideis, 8-12 \approx 2, biguttulatis, hyalinis; basidiis filiformi-hama-
tis, 30 \approx 1.
Hab. in ramis Sarothamni Scoparii, in Germania. —
Spermogonium *Diaporthes Sarothamni*.
13. **Phoma sepesita** Sacc. I. Ven. Ser. IV., sub n. 16 et Ser. V., n. 392
295. — Peritheciis globoso-depressis, in cortice exteriori nidulan-
tibus, pulpa obscura foetis; sporulis oblongo-fusoideis, 7-10 \approx 3,
hyalinis, 2-guttatis; basidiis filiformibus curvulis vel hamatis,
20-24 \approx 1-2.
Hab. in ramis Wistariæ sinensis, in Italia boreali et Gal-
lia. — Spermogonium *Diaporthes*.
14. **Phoma Amorphæ** Sacc. Mich. I. p. 523. — Peritheciis gregariis, 393
globoso-lenticularibus, subcutaneis, pertusis, $\frac{1}{10}$ - $\frac{1}{7}$ mill. diam.;
sporulis ovatis, 6-7 \approx 4, utrinque obtusiusculis, hyalinis (basidiis
non visis).
Hab. in ramulis Amorphæ fruticosæ, in Gallia (LETENDRE).
15. **Phoma Laburni** (West.) Sacc. *Sphæropsis Laburni* West. 5. Not. 394
n. 32. — Peritheciis sphæricis, subinnatis, 1 mill. circ. diam., epi-
dermidem dein nigrificatam sublevantibus atque cum ea laciniatim
secedentibus; nucleo albido; sporulis ovoideis, hyalinis, 20-30 \approx
13-14.
Hab. in ramis corticatis Cytisi Laburni, in Belgio et Ita-
lia. — Cum *Cucurbitaria Laburni* forte metagenetice connexa.
16. **Phoma rudis** Sacc. Mich. I. p. 257. Cfr. Fuck. Symb. 209 et Sacc. 395
Syll. I. p. 662. — Peritheciis gregariis, epidermide primitus ve-
latis, globoso-depressis; sporulis oblongo-cylindræis, 6-7 \approx 2, 2-
guttulatis, hyalinis; basidiis filiformibus fultis.
Hab. in ramulis emortuis Cytisi Laburni, in Italia boreali,
Gallia, Germania. — Spermogonium *Diaporthes rudis*.
17. **Phoma mendax** Sacc. Mich. I. p. 521. — Peritheciis gregariis, 396
subcutaneis, globoso-depressis, nigricantibus; sporulis elongatis,
10 \approx 2, 2-guttatis, hyalinis; basidiis filiformibus, demum hama-
tis, 25 \approx 1.

- Hab.* in ramis Albizziæ Julibrissiri, in Gallia et Italia.
18. **Phoma clavuligera** (B. et C.) Sacc. *Sphæropsis clavuligera* B. 397
et C. F. of Cuba n. 562. — Peritheciis subcuticularibus depressis; sporulis oblongo-clavatis, hyalinis, 14-15 μ . longis; basidiis seu sporophoris brevibus.
Hab. in caulibus Diptericeis odoratæ (*Congo-bean*) in Cuba.
19. **Phoma abnormis** (B. et C.) Sacc. *Cytispora abnormis* B. et C. 398
North. Am. Fungi n. 459. — Pustulis minutis, apice tantum erumpentibus; sporulis oblongis, binucleatis, 7-8 μ . longis.
Hab. in ramis Robiniæ, in Carolina inf.
20. **Phoma oncostoma** Thüm. M. U. n. 877. — Peritheciis gregariis, 399
subcutaneis, globoso-depressis, atro-olivaceis, subinæqualibus; sporulis fusoides, utrinque acutis, 10 \approx 2, biguttatis, hyalinis; basidiis longis, demum hamatis.
Hab. in ramulis corticatis Robiniæ Pseudacaciæ, in Italia, Gallia, Germania. — Spermogonium *Diaporthes oncostomæ*.
21. **Phoma Robiniæ** (Pr.) Sacc. *Sphærocista Robiniæ* Preuss Hoyersw. 400
n. 35. — Peritheciis corneis, in stromate expanso arcte et singulatim insidentibus; ostiolo perforato; basidiis filiformibus; sporulis fusiformibus, curvatis, utrinque acutis; guttulis quaternis repletis, albis.
Hab. in Robinia, Hoyerswerda. — An diversa a *Ph. oncostoma*?
22. **Phoma Pseudacaciæ** Sacc. — Peritheciis gregariis, majusculis, 401
conico-truncatis v. subhemisphæricis, subcutaneis, poro apertis; sporulis ovato-fusoides, 8-10 \approx 2,5-3; basidiis filiformi-hamatis, 20-22 \approx 1.
Hab. in ramis corticatis Robiniæ Pseudacaciæ, in Italia, Germania, Gallia, socia *Diaporthe fasciculata*, cujus est spermogonium.
23. **Phoma Fuckelii** Sacc. Mich. II. pag. 52. — Peritheciis minutis, 402
globulosis, atris; sporulis minutissimis, botuliformibus, 3-4 \approx $\frac{3}{4}$, hyalinis; basidiis bacillaribus, 8 \approx 1, e strato prolifero luteolo oriundis.
Hab. in ramis Robiniæ Pseudacaciæ, in Vogesis Galliæ, intermixta *Cælosphæria Fuckelii*, cujus spermogonium videtur.
24. **Phoma cryptica** (Nits.) Sacc. Mich. I. p. 521. — Peritheciis gre- 403
gariis, subcutaneis, globoso-depressis, griseo-atris, obtusis; sporulis oblongo-fusoides, 8 \approx 3, 2-guttulatis, hyalinis; basidiis filiformi-curvatis.

- Hab.* in ramis *Lonicerae tartaricæ*, *Caprifolii*, *Xylostei*, in Germania, Italia et Gallia. — Spermogonium *Diaporthes*.
25. **Phoma Ryckholtii** Sacc. Cfr. Syll. I. p. 680. — Peritheciis sub- 404
cutaneis, gregariis, globoso-depressis; sporulis obtuse fusoideis, 6-8 = 2,5, biguttatis, hyalinis, longiuscule stipitatis.
Hab. in ramis *Symphoricarpi racemosæ*, in Italia, Germania, Belgio. — Spermogonium *Diaporthes Ryckholtii*.
26. **Phoma Xylostei** Cooke et Harkn. in Grev. 1881, p. 82. — Spar- 405
sa, punctiformis; peritheciis atris, subprominulis; sporulis ellipticis, continuis, hyalinis, 6 = 3.
Hab. in ramis *Lonicerae hispidulæ*, in California, regione Americæ borealis.
27. **Phoma minutula** Sacc. Mich. II. p. 92. — Peritheciis corticolis, 406
tectis sparsis, globoso-papillatis, $\frac{1}{8}$ mill. diam., contextu minute parenchymatico, ochraceo-fuligineo; sporulis botuliformibus, perexiguis, 4 = 1, basidiis bacillaribus, 5-6 μ . long., suffultis.
Hab. in ramulis corticatis *Lonicerae Xylostei*, pr. Rouen in Gallia (MALBRANCHE), et in sarmentis vivis *Lonicerae* cujusdam cultæ in Argentina (SPEGAZZINI). — In hac postrema perithecia 100-110 μ . diam.; sporulæ inæqualiter ovoideæ, non vel 1-guttatæ, 5 = 1,5.
28. **Phoma Lonicerae** Cooke in Grevillea. — Sparsa, erumpens; pe- 407
ritheciis prominulis, atris, penitus tectis; sporulis ellipticis, binucleatis, hyalinis, 10-12 = 3-4.
Hab. in ramis *Lonicerae*, New Jersey in Amer. bor. (ELLIS).
29. **Phoma Mariæ** Clin. in Peck. Rep. on the St. Mus. N. Y. — 408
Peritheciis minutis, punctiformibus v. subhysterinis, epidermide tectis, nigris; sporulis oblongo-ellipsoideis, subinde acutis, hyalinis, biguttatis, 8 μ . longis.
Hab. in ramis decorticatis *Lonicerae flavæ* et *tartaricæ*, Buffalo in America boreali.
30. **Phoma Weigeliæ** Speg. Mich. I. p. 481. — Peritheciis lenticula- 409
ribus, 110-120 μ . diam., sub epidermide nidulantibus, carbonaceis, ostiolo papillato-conoideo acutiusculo donatis; sporulis minutis, hyalino-chlorinis, 3-5 = 1-2, ellipticis vel ovoideis, obtusis, non guttulatis.
Hab. in ramulis emortuis *Weigeliæ roseæ*, Conegliano in Italia boreali.
31. **Phoma peduncularis** Sacc. *Gerulajacta striciformis* Preuss. F. 410
Hoyersw. n. 316. — Peritheciis membranaceis, hemisphæricis, atris;

nucleo albo; basidiis clavatis, albis, curvatis; sporulis oblongis, albis.

Hab. in pedunculis Sambuci, Hoyerswerda.

32. **Phoma sambucella** Sacc. Cfr. Syll. I. p. 633 ad n. 98. — Peri- 411
theciis subcutaneo-erumpentibus, globoso-depressis, gregariis; spo-
rulis ovato-oblongis, $8 \approx 3-4$, biguttatis, hyalinis.

Hab. in ramis emortuis Sambuci racemosæ et nigræ, in Germania, Italia, Gallia. — Spermogonium *Diaporthes spiculosa*.

33. **Phoma sambucina** Sacc. Mich. II. p. 97. — Peritheciis gregariis, 412
epidermide initio velatis, globoso-depressis v. oblongis, griseo-fu-
scis; sporulis oblongo-fusoideis, $8-10 \approx 3$, 2-guttatis, hyalinis; ba-
sidiis bacillaribus, $15 \approx 1$, suffultis.

Hab. in ramulis tenellis Sambuci nigræ, Rouen in Gallia (LETENDRE). — Spermogonium *Diaporthes*.

34. **Phoma vicina** Desm. Exs. Ser. III. n. 352 (verisimiliter, sed exempl. 413
non vidi). Mich. I. p. 525. — Peritheciis punctiformibus, globoso-
ellipsoideis, $100-150 \approx 50-60$, minute pertusis, basi ligno infossis;
sporulis oblongis, curvulis, $5 \approx 2$, eguttulatis, hyalinis.

Hab. in ramis decorticatis Sambuci nigræ, in Gallia. — F. **Platani** Sacc. in Rev. Myc. III. 6, p. 28. Sporulis ovato-oblon-
gis, $4 \approx 1-7$; basidiis brevissimis suffultis, nubiosis, hyalinis. In
ramulis Platani, in Algeria (TRABUT). — An *Aposphæria*?

35. **Phoma Landeghemiae** (Nits.) Sacc. — Peritheciis exiguis, cortici 414
interiori subinfossis, globoso-conicis, pertusis; sporulis fusoideis,
subrectis, $8 \approx 2,5$, hyalinis; basidiis cæspitosis, breviusculis.

Hab. in ramis corticatis Philadelphi coronarii, in Ger-
mania. — Spermogonium *Diaporthes Landeghemiae*. Cfr. Syll. I.
pag. 683.

36. **Phoma rhamnicola** Cooke et Hark. in Grevillea n. 64. — Gre- 415
garia, minuta, punctiformis; peritheciis tectis, subglobosis, atris
ostiolis erumpentibus; sporulis oblongis, continuis, hyalinis, $7,5 \approx 3$.

Hab. in ramis Rhamni californicæ, in California.

37. **Phoma Evonymi** Sacc. *Gibberellæ Evonymi* Sperm. Fuck. Symb. 416
p. 167. — Peritheciis minutissimis in acervulos subglobosos, 2 mill.
diam., dense congestis, ovoideis, nitidis, atro-fuscis; sporulis mini-
mis, cylindraceis, oscillantibus.

Hab. in ramis corticatis Evonymi europæi, in Rhenogovia.
— An potius *Dothiorellæ* species?

38. **Phoma ramealis** Desm. 18 Not. p. 7. — Peritheciis innatis, mi- 417
nutis, numerosis, dense approximatis, globoso-depressis, $\frac{1}{4}-\frac{1}{5}$ mill.

diam., nigris, opacis, epidermide tectis; ostioli papillatis; nucleo gelatinoso, albido; sporulis oblongis, utrinque obtusis, $10 \approx 2,5-3$, 2-guttulatis.

Hab. in ramis exsiccatis *Evonymi europæi* et *latifolii* in Gallia, Italia boreali, Austria. — F. **Rhamni Alaterni**, in Gallia meridionali.

39. **Phoma lirelloides** Sacc. et Penz. Mich. II. p. 616. — Peritheciis 418 subparalleliis, oblongis, subhysterioideis, minutis, cortice secedente liberatis, basi ligno infossis; sporulis teretiusculis, curvulis, utrinque rotundatis, $5 \approx 2$, hyalinis; basidiis sporula brevioribus, clavulatis, hyalinis.

Hab. in ramis dein decorticatis *Evonymi japonici*, prope Rouen in Gallia (LETENDRE).

40. **Phoma foveolaris** (Fr.) Sacc. Mich. II. p. 94. *Sphæria foveola-* 419
ris Fr. S. M. II. p. 499. — Gregaria; peritheciis innatis, minimis, depressis, albido-farctis, collabascendo concavis, foveolatis; sporulis ovatis obovatisve, 2-guttulatis, $6 \approx 3$, hyalinis.

Hab. ad ramos recenter emortuos *Evonymi europæi*, in Germania, Gallia, Italia. — Adeo conferta, ut ramulos subinde crustulæ tenuissimæ instar nigræ obducit, in quorum superficie efficit foveolas valde excavatas, nigras, nitidulas, unde facile dignoscitur.

41. **Phoma berberina** Sacc. et Roum. Mich. II. p. 336. — Peritheciis 420 sparsis vel laxè gregariis, subcutaneis, globoso-depressis, nigro-griseis; sporulis fusoides, $6-7 \approx 2-2\frac{1}{2}$, biguttulatis, hyalinis.

Hab. in ramulis *Berberidis vulgaris*, Tarbes in Gallia. — Spermogonium *Diaporthes*.

42. **Phoma detrusa** Sacc. Mich. II. p. 96. — Peritheciis cortice ve- 421 latis, sparsis stromateque nigricante conjunctis, globulosis, contextu melleo; sporulis fusoides, $8-10 \approx 2\frac{1}{2}$, 2-guttulatis, hyalinis; basidiis bacillaribus, $20 \approx 1$, suffultis.

Hab. in ramis *Berberidis vulgaris*, socia *Cucurbitaria*, Rouen in Gallia (LETENDRE). — Spermogonium *Diaporthes*.

43. **Phoma Berberidis** Sacc. Mich. I. p. 259. — Peritheciis subsuperfi- 422 cialibus, aggregatis, globoso-conoideis, vertice breve setulosis, verruculosus, nigris; sporulis oblongis, tenuissimis, $3-4 \approx \frac{1}{2}-\frac{3}{4}$, hyalinis, in basidiis ramulosis acrogenis.

Hab. in ramis emortuis *Berberidis vulgaris*, Selva, Padova in Ital. bor., socia *Cucurbitaria Berberidis*, cujus sistit spermogonium. Cfr. Sacc. Myc. Ven. Spec. t. XII. f. 29. — An potius *Pyrenochaeta* species?

44. **Phoma melaleuca** B. et C. North Am. F. n. 387. — Subcuticu- 423
laris nitida e macula albida oriunda; sporulis oblongis, 7,5-10 μ .
longis.
Hab. in (?) ramis Berberidis, Magnoliæ, Araliæ, in Ame-
rica boreali.
45. **Phoma Pini** C. et Harkn. in Grevillea 1881, pag. 81. — Sparsa, 424
tectata; peritheciis minimis, subglobosis, tectis; sporulis ellipticis,
hyalinis, continuis, 6,5 \approx 3.
Hab. in cortice Coniferarum, in California.
46. **Phoma Pittospori** Cooke et Harkn. in Grevillea, n. 64. — Gre- 425
garia sparsave, parvula; peritheciis atris subglobosis tectis, demum
sursum erumpentibus; sporulis ellipticis, continuis, hyalinis, 8 \approx 2,5.
Hab. in ramis Pittospori in California, socia *Diplodia Pit-*
tospori.
47. **Phoma pithya** Sacc. Mich. I. p. 126. — Peritheciis sparsis, sub- 426
cutaneis, dein semierumpentibus, globulosis, vix papillatis, $\frac{1}{3}$ mill.
diam., contextu celluloso, solidiusculo, fuligineo; sporulis fusoidis
plerumque rectis, 9-11 \approx 2 $\frac{1}{2}$ -3 $\frac{1}{2}$, initio 2-guttulatis, hyalinis.
Hab. in ramulis corticatis Pini silvestris, in horto bota-
nico Berolinensi (P. MAGNUS). — Verisimiliter status spermogo-
nicus *Diaporthes* (Tetrast.) *pithyæ* Sacc.
48. **Phoma Libertiana** Speng. et Roum. Mich. II. p. 338. — Perithe- 427
ciis gregariis, erumpentibus, globoso-depressis, papillulatis, con-
textu parenchymatico rufescente; sporulis ovoideis, utrinque obtu-
siusculis, 6-6 $\frac{1}{2}$ \approx 3, 2-guttulatis, hyalinis.
Hab. in ramulis corticatis Abietis, in Gallia et Germania. —
Spermogonium, ut videtur, *Cenangii Pinastris*.
49. **Phoma micromegala** (B. et C.) Sacc. *Sphæroopsis micromegala* 428
B. et C. North Am. F. n. 410 (bis). — Peritheciis hysteriiformi-
bus, minutis, nitidis, plagulas lineares dealbatas generantibus; spo-
rulis ellipticis, hyalinis, curvulis, 25 \approx 11.
Hab. in radicibus denudatis Pinorum, Alabama in America
boreali (BEAUMONT).
50. **Phoma macrosperma** (Karst.) Sacc. *Sphæronæma macrosper-* 429
ma Karst. Hedw. 1884, pag. 17. — Peritheciis sparsis, cortici
innatis, rotundis, atris, glabris, pertusis, $\frac{1}{3}$ - $\frac{1}{2}$ mill. diam., globu-
lo difformi dilutissime flavescente; sporulis ovoideo-ellipsoideis v.
ellipsoideis, simplicibus, hyalinis, 44-52 \approx 22-23.
Hab. in ramulis emortuis Abietis excelsæ, Mustiala in Feni-
nia. — Ob sporulas magnas a genere desciscit.

51. **Phoma excelsa** Karst. Hedw. 1884, p. 19. — Peritheciis spar- 430
 sis vel subgregariis, sed per peridermium erumpentibus, rotundatis,
 subastomis, atris, primitus sæpe fusco-furfuraceis, 0,3-0,5 mill.
 diam.; sporulis ovoideis vel ellipsoideo-oblongatis, uniguttulatis,
 hyalinis, 15-24 \approx 9.
Hab. in ramis emortuis Piceæ excelsæ, ad Mustiala in
 Fennia.
52. **Phoma piceana** Karst. Hedw. 1884, pag. 18. — Peritheciis spar- 431
 sis, sed epidermidem semierumpentibus, vulgo rotundatis, subasto-
 mis vel vix papillatis, subtilissime punctulatis, atris, 500-800 μ .
 diam.; sporulis elongatis, curvulis, eguttulatis, hyalinis, 5 \approx 1.
Hab. ad ramulos emortuos Piceæ excelsæ, ad Mustiala in
 Fennia.
53. **Phoma allostoma** (Lév.) Sacc. *Sphæropsis allostoma* Lév. Ann. 432
 Sc. Nat. 1846, p. 294. — Peritheciis sparsis, innatis, demum erum-
 pentibus, subglobosis, rudibus, rigidis, intus sordide albis; ostiolis
 papillatis vel conicis; sporulis cylindricis, elliptico-linearibus, pel-
 lucidis, minutis.
Hab. ad corticem Taxi baccatæ, in horto botanico Pari-
 siensi.
54. **Phoma padina** Sacc. Syll. I. p. 619. — Peritheciis subtectis, glo- 433
 bosolenticularibus, sparsis; sporulis fusoides, 9-11 \approx 3, hyalinis.
Hab. in ramis corticatis Pruni Padi, in Gallia et Germa-
 nia. — Spermogonium *Diaporthes decorticans* (Lib.) Sacc. et
 Roum.
55. **Phoma persicina** (B. et C.) Sacc. *Sphæropsis persicina* B. et C. 434
 — Peritheciis minutis, nitidis, ocellatis, epidermide centro albo-pun-
 ctata tectis; sporulis oblongis breve pedicellatis, 1-2-nucleatis,
 15 \approx 5-7.
Hab. in ramis Persicæ, Pennsylvania, in Amer. bor.
56. **Phoma persicaria** Schulz. et Sacc. Micr. Slav. n. 47. Schulz. III. 435
 Fung. Slav. n. 682. — Peritheciis subgregariis, globosis, perider-
 mio tectis, 0,2-0,25 mill. diam.; ostiolo obtuso, vix corticem per-
 forante; nucleo albo; sporulis exiguis, ellipticis, hyalinis, 4-6 μ .
 longis; basidiis obsoletis.
Hab. in ramis corticatis Persicæ vulgaris, pr. Vinkovce.
57. **Phoma Persicæ** Sacc. Mich. I. p. 526. — Peritheciis laxè gre- 436
 gariis, globoso-lenticularibus, $\frac{1}{6}$ - $\frac{1}{5}$ mill. diam., epidermide vix tu-
 midula velatis; sporulis oblongo-ovoides, 8 \approx 3, 2-guttulatis, hya-
 linis; basidiis æquilongis, cylindro-conicis, suffultis.

Hab. in ramulis nondum exsiccatis Persicæ, Saintes in Gallia (BRUNAUD).

58. **Phoma Potonieana** Sacc. Mich. I. p. 126. — Peritheciis gregariis v. hinc inde in cæspitulos parvos aggregatis, erumpentibus, globulosis vix papillatis, aterrimis, contextu celluloso-fuligineo; sporulis ovato-ellipsoideis, 8-10 \approx 4, hyalinis, e strato prolifero immediate oriundis.

Hab. in ramulis corticatis Drupaceæ? in Thiergarten Berolini in Germania (H. POTONIE in herb. P. MAGNUS).

59. **Phoma leucostoma** Lév. Ann. Sc. Nat. 1846, pag. 282. — Peritheciis sparsis vel approximatis, innatis, compressis, intus nigris, receptaculo corticali immersis; ostioli papillatis, pertusis, discum album perforantibus; sporulis perexiguis, curvulis, utrinque obtusis.

Hab. ad ramos Spirææ hypericifoliæ, in hortis Parisiensibus.

60. **Phoma Sorbariæ** Sacc. Cfr. Syll. II. p. 644. — Peritheciis gregariis, subcutaneis, globoso-depressis; sporulis fusoides, biguttulatis, hyalinis, 7-9 \approx 2,5; basidiis filiformibus, 17-20 \approx 1.

Hab. in trunculis emortuis Spirææ (Sorbariæ) sorbifoliæ, in Germania. — Spermogonium *Diaporthes Sorbariæ*.

61. **Phoma Mali** Schulz. et Sacc. Micr. Slav. n. 42. Schulz. Ill. Fung. Slav. n. 783. — Peritheciis gregariis subcutaneis, depressis; ostiolo vix erumpente; sporulis oblongo-fusoides, 8 μ . long., 2-guttatis, basidiis duplo longioribus, filiformibus, suffultis.

Hab. in ramis Piri Mali, pr. Vinkovce. — Status spermogonicus probabiliter *Diaporthes ambiguæ*. An eadem ac *Phoma ambigua* (Nits.) Sacc.

62. **Phoma ambigua** (Nits.) Sacc. Mich. I. p. 520. — Peritheciis gregariis subcutaneis, compressis, atro-olivaceis; sporulis fusoides, 8 \approx 3; basidiis filiformibus, 18 \approx 1.

Hab. in ramulis Piri communis, in Gallia. — Spermogonium *Diaporthis ambiguæ* Nits. (Syll. I. p. 669).

63. **Phoma enteroleuca** Sacc. Mich. I. p. 358. — Peritheciis hinc inde acervulatis, peridermio tectis, dein erumpentibus, globulosis, $\frac{1}{4}$ mill. diam., vix papillatis, diu nucleo albo farctis; sporulis ovoideo-oblongis, 4 \approx 1 $\frac{1}{2}$, eguttulatis, hyalinis (basidiis nullis visis).

Hab. in ramulis Piri et Syringæ, in Gallia et Germania.

64. **Phoma Cydoniæ** Sacc. et Schulz. Micr. Slav. n. 49. Schulz. Ill. Fung. Slav. n. 89, 91 et 94. — Peritheciis subgregariis, globoso-depressis, ostiolo obtuso vix erumpente, subinde liberatis conicis-

que; sporulis ellipsoideo-oblongis, 2-guttatis, hyalinis, 8-9 μ . long.; basidiis initio breviusculis, dein liberatis filiformi-uncinatis.

Hab. in ramis corticatis vel denique decorticatis *Cydoniæ vulgaris*, pr. Vinkovce.

65. **Phoma Vepris** Sacc. Cfr. Syll. I. p. 668. — Peritheciis gregariis, 444 epidermide initio velatis, globoso-depressis; sporulis fusoides, 6 = 1,5, biguttulatis, brevissime stipitatis.

Hab. in ramis corticatis *Rubi fruticosi*, in Germania, Italia, Gallia. — Spermogonium *Diaporthes Vepris*.

66. **Phoma Mülleri** Cooke in Grev. — Punctiformis, sparsa; peritheciis 445 minutis, tectis; ostiolis brevibus, cuticulam perforantibus; sporulis anguste ellipsoideis, 2-guttulatis, hyalinis, 10-12 = 3.

Hab. in sarmentis *Rubi*, Eastbourne in Britannia (C. J. MÜLLER).

67. **Phoma Corticis** Fuck. Symb. Myc. p. 378. — Peritheciis sparsis, 446 minutis, tectis, demum per epidermidem erumpentibus, globosis, perforatis, atris, nucleo albo; sporulis cylindraceis, 1-4-guttulatis, rectis, 22 = 3, hyalinis.

Hab. in sarmentis vivis *Rubi fruticosi*, prope Æstrich in Germania.

68. **Phoma Ruborum** West. Exs. n. 1234, Kickx Fl. Fl. I. p. 436. — 447 Peritheciis innatis, dein superficialibus, convexis, subdimidiatis, brunneo-nitidulis, subastomis, epidermide sæpe longitudinaliter fissa tectis; sporulis cylindraceis, obtusis, rectis curvulisve, obsolete guttulatis.

Hab. in sarmentis *Ruborum*, in Belgio frequens.

69. **Phoma Rosæ** Schulz. et Sacc. Micr. Slav. n. 46 (sub nomine *Pho-* 448 *mæ Rosarum*). Schulz. III. Fung. Slav. n. 708. — Peritheciis epidermide prominula tectis, globoso-depressis, intus pallidis, 0,5-1 mill. diam.; ostiolo vix erumpente; sporulis ovatis v. fusoides, 2-guttatis, hyalinis, 6-10 μ . long.; basidiis fasciculatis filiformibus, sporulâ duplo et plus longioribus.

Hab. in ramis *Rosarum* cultarum, pr. Vinkovce. — Est status spermogon. *Diaporthes*. An eadem sit ac *Ph. Rosarum* Mont, non liquet.

70. **Phoma aculeorum** Sacc. Mich. I. p. 353. — Peritheciis gregariis, 449 punctiformibus, $\frac{1}{10}$ - $\frac{1}{8}$ mill. diam., conoideis, nigris, initio epidermide velatis; sporulis cylindraceo-oblongis, sæpe curvulis, 3-4 = 1, obsolete 2-guttulatis, hyalinis; basidiis fusoides, crassiusculis, suffultis.

Hab. in aculeis languidis Rosarum, prope Alençon in Gallia (C. C. GILLET).

71. **Phoma pusilla** Schulz. et Sacc. Micr. Slav. n. 48. Schulz. III. 450
Fung. Slav. n. 691. — Peritheciis cortice innatis, sparsis, globo-
so-depressis, perexiguis, 0,1-0,2 mill. lat., intus pallidis; ostiolo
obsoleto, obtuso; sporulis oblongis, 4-5 μ . long., hyalinis, rectis;
basidiis filiformibus, triplo longioribus, fasciculatis, suffultis.

Hab. in ramis Rosæ caninæ, prope Vinkovce.

72. **Phoma Rosarum** Dur. et Mont. Alg. 604. Syll. n. 979. — Peri- 451
theciis minutulis, innato-prominulis, epidermide integra aut tandem
stellatim fissa tectis, atro-fuscis, intus niveis; sporulis innumeris,
lineari-oblongis, hyalinis, utroque fine 1-guttatis.

Hab. in ramis emortuis Rosæ sempervirentis, Alger (DURIU).

73. **Phoma sepincola** (Kickx) Sacc. *Sphæroopsis sepincola* Kickx Fl. 452
Fl. I. p. 400. *Sphæria sepincola* Desm. non Fr. — Peritheciis
tectis, minutis, globulosis v. sublenticularibus, demum epidermidem
perforantibus, atro-opacis, pertusis; nucleo albido; sporulis ellipti-
co-cylindræis, obtusis, interdum lenissime curvis.

Hab. in ramulis emortuis Rosarum, in Belgio.

74. **Phoma incarcerata** (Nits.) Sacc. Mich. II. p. 95. — Peritheciis 453
gregariis minutis, globoso-depressis, subcutaneis; sporulis fusoides,
8 \approx 2, 2-guttulatis; basidiis arcuatis, 20 \approx 1, suffultis.

Hab. in ramis corticatis Rosæ caninæ et Banksianæ, in
Germania et Italia. — *Diaporthes incarceratæ* (B. et Br.) sper-
mogonium.

75. **Phoma Tandilensis** Speg. F. Arg. Pug. IV. n. 279. — Peritheciis 454
hemisphærico-lenticularibus, 100-120 μ . d., primo tectis, dein erum-
pentibus, v. cortice secedente liberis, atris, crassiuscule membrana-
ceis, contextu indistincte parenchymatico, fuligineo; ostiolo minuto
pertusis, glabris, vix basi hyphis gracilibus, 3 μ . crass., repentibus,
ornatis; sporulis cylindræis, utrinque obtusiuscule rotundatis, 8-
10 \approx 2, grosse 2-guttulatis, medio sæpe subcoarctatis, granuloso-
fartis, hyalinis.

Hab. in caulibus foliisque emortuis Margyricarpi setosi,
in arenosis montuosis «Sierra del Tandil» in Argentina.

76. **Phoma fusigera** (B. et C.) Sacc. *Sphæroopsis fusigera* B. et C. 455
North Am. Fungi n. 413 (bis). — Peritheciis sparsis, apice gra-
nuloso-lateritiis; sporulis subfusiformibus, enucleatis, inæquilatera-
libus, 35-38 μ . longis.

- Hab.* in ramis *Mespili*, in Pennsylvania, regione Americæ borealis (MICHENER).
77. **Phoma semiimmersa** Sacc. Mich. I. p. 97. — Peritheciis sparsis, depressis, minutis, initio velatis; sporulis fusoides, 12-14 \times 3, 2-guttatis, hyalinis; basidiis bacillaribus, 25 \times 2, suffultis. 456
Hab. in ramis *Cratægi Oxyacanthæ*, Rouen in Gallia (LETENDRE). — Spermogonium *Diaporthes*.
78. **Phoma Cratægi** Sacc. Mich. I. p. 248. — Peritheciis erumpentibus, subglobosis irregularibusque, nucleo albo; sporulis oblongis, minutissimis, 4 \times 1,5, hyalinis. 457
Hab. in ramis corticatis *Cratægi Oxyacanthæ*, Vittorio in Italia boreali, socia *Othia Cratægi*, cujus videtur spermogonium.
79. **Phoma japonica** Sacc. Mich. I. p. 521, II. p. 95. — Peritheciis velatis, minutis, nigris, globoso-depressis vel oblongis, quandoque zona nigra plagulas limitante circumdatis; sporulis fusoides, 6-10 \times 2-3, 2-guttulatis; basidiis uncinatis, 25 \times 1, suffultis. 458
Hab. in ramis *Kerriæ japonicæ*, in Italia et Gallia. — Spermogonium *Diaporthes japonicæ*.
80. **Phoma Granati** Sacc. F. Ven. Ser. V. p. 200. — Peritheciis gregariis, lenticulari-globulosis, membranaceis, contextu parenchymatico fuligineo, $\frac{1}{10}$ mill. diam.; ostiolo minuto impresso; sporulis oblongo-subfusoides, 15 \times 5, quandoque curvulis, hyalinis, sterigmatibus filiformibus, æquilongis, fultis. 459
Hab. in calycibus, petalis, rarius in foliis exsiccatis *Punicæ Granati*, Selva (Treviso) in Italia bor.
81. **Phoma Eucalypti** Cooke et Kickx. Grev. 1881, p. 82. — Erumpens, gregaria; peritheciis atris, semilibris, maculas punctatas formantibus; sporulis elongato-ellipticis, hyalinis, continuis, 10-12 \times 2,8. 460
Hab. in cortice interiore *Eucalypti Globuli*, in California. 461
82. **Phoma eucalyptica** (Thüm.) Sacc. *Coniothyrium Eucalypti* Thüm. Contr. Myc. Lus. n. 341. — Peritheciis numerosissimis, dense gregariis, pro ratione magnis, epidermide primo tectis, demum irregulariter disrumpentibus emersisve, membranaceis, nigris, subhemisphæricis demum applanatis; sporulis numerosis, cylindræis, rectis vel interdum minime arcuatis, utrinque rotundatis, simplicibus, enucleatis, hyalinis, 3-3,5 \times 1,5.
Hab. in ramis emortuis *Eucalypti Globuli*, Pinhal de Valle de Canas pr. Coimbra in Lusitania (MOLLER).
83. **Phoma rimiseda** Sacc. Mich. II. p. 380 (sub nom. *Ph. rimicola*). 462

— Peritheciis longitudinaliter dense aggregatis, e corticis rimis erumpentibus, globosis, papillatis, $\frac{1}{2}$ mill. diam., nigris intus pallidis; contextu parenchymatico solido, fuligineo; sporulis oblongo-fusoideis, 18–21 \approx $4\frac{1}{2}$ – $6\frac{1}{2}$. utrinque acutiusculis, varie guttulatis nubilosisque, hyalinis; basidiis bacillaribus, dense fasciculatis, 20 \approx 2, suffultis.

Hab. in rimis ramorum corticatorum *Vitis viniferæ*, Padova in Italia boreali (BIZZOZERO). — A ceteris *Phomæ* et *Sphæropsidis* speciebus in Thüm. «Pilz. d. Weinst.» descriptis sporulis multo majoribus dignoscenda.

84. **Phoma viticola** Sacc. Mich. II. p. 92. — Peritheciis sparsis, epidermide velatis, globosis, papillulatis, vix $\frac{1}{6}$ mill. diam.; contextu laxe parenchymatico fuligineo; sporulis ellipsoideis, subinæquilateralibus, 7 \approx 4, eguttulatis, hyalinis; basidiis filiformibus, subæquantibus, suffultis.

Hab. in sarmentis *Vitis viniferæ*, Rouen in Gallia (MALBRANCHE). — Ab affini *Ph. Vitis* Bon. differt sporulis duplo majoribus.

85. **Phoma Vitis** Bon. Abhandl. Myc. p. 14, Pirotta F. Vit. p. 54. — Peritheciis minutis, punctiformibus, sparsis, depresso-globulosis, nigris; ostiolo minuto, primo conico, epidermidem perforante; sporulis ovato-ellipticis, 3–3,5 \approx 1–2, hyalinis; basidiis simplicibus, subventricosis.

Hab. in sarmentis *Vitis viniferæ*, in Italia, Germania, Austria et Britannia.

86. **Phoma longispora** (Thüm.) Cooke in Grev. *Leptothyrium longisporum* Thüm. Weinst. p. 153. — Peritheciis dense gregariis minutis, in areis dealbatis corticalibus, innato-prominulis, globoso-depressis, atris; sporulis cylindræis, rectis curvulisve, utrinque rotundatis, hyalinis, 20 \approx 4–4,5; basidiis fasciculatis, elongatis, rectis.

Hab. in sarmentis *Vitis viniferæ*, Parma in Italia bor. (PASSERINI); et *Vitis æstivalis*, Aiken in Carolina (RAVENEL).

87. **Phoma Ampelopsidis** (C. et E.) Sacc. *Sphæropsis Ampelopsidis* C. et Ell. in Grevill. tab. 99, fig. 8. — Gregaria, tecta; peritheciis subglobosis, atris, cortice elevatis, papillatis; sporulis lanceolatis vel subellipticis, utrinque rotundatis, hyalinis, 30–35 \approx 12.

Hab. in ramis *Ampelopsidis quinquefoliæ*, New Jersey, in Amer. bor.

88. **Phoma ampelina** B. et C. North Amer. F. n. 380. — Subcuticularis, hysteriiformis; sporulis fusiformibus, 12 μ . longis.

- Hab.* in sarmentis *Vitis*, in Pensylvania, regione Amer. bor. (MICHENER). — Pustulæ corticales hysteriiformi-tumidulæ.
89. **Phoma Cookei** Pirota Vit. pag. 55, tab. XII. fig. 21, *Ph. Vitis* 468
Cooke nec Bonord. — Peritheciis minutis, sparsis, punctiformibus, nigris, globosis subglobosisve, primum epidermide tectis, dein erumpentibus; basidiis filiformibus, stipatis, flexuosis, hyalinis; sporulis baculiformibus, curvatis, apicibus obtusissimis, simplicibus, hyalinis, $13 \approx 4,5 \mu$.
- Hab.* ad ramulos *Vitis* viniferæ prope nodos, in Britannia.
90. **Phoma confluens** B. et C. North Amer. Fungi n. 383. — Ma- 469
culis elevatis marginatis; peritheciis nigris confluentibus; sporulis brevibus, oblongis, 5μ longis.
- Hab.* in sarmentis *Vitis*, in America boreali.
91. **Phoma pallens** B. et C. North Amer. Fungi n. 381. — Subcu- 470
ticularis, hysteriiformis; sporulis oblongo-fusoideis, utrinque apiculatis sub-æqualibus, $5-7,5 \mu$ long.
- Hab.* in ramis tenellis dealbatis *Vitis*, Ampelopsidis, nec non *Celastris* scandentis, in Pensylvania, regione Amer. bor.
92. **Phoma Peckiana** (Thüm.) Sacc., *Sphaeropsis Peckiana* Thüm. 471
Weinst. Pils. p. 149. — Peritheciis gregariis, primo epidermide tectis, demum erumpentibus, liberis, conico-globosis, papillatis, mediis, nigris; sporulis non pedicellatis, longe ellipsoideis vel oblongo-ovatis, utrinque obtuso-rotundatis, medio vel non minime inflexis, simplicibus, uni- vel trinucleatis, nucleis magnis, $30 \approx 10 \mu$, hyalinis.
- Hab.* in sarmentis emortuis *Vitis* *Labruscæ*, Albany N. Y. in America septentr. (PECK).
93. **Phoma nidulans** Grogn. Sacc. Mich. II. pag. 341. — Peritheciis 472
hinc inde approximatis, oblongis, erumpentibus, intus griseis; sporulis fusoideis, $8-10 \approx 2\frac{1}{2}$, biguttatis, hyalinis; basidiis filiformibus, $25-30 \approx 1\frac{1}{2}$, fasciculatis, e basi proligera lutescenti oriundis, suffultis.
- Hab.* in ramis corticatis Ampelopsidis hederaceæ, Pau in Gallia. — Spermogonium *Diaporthes*.
94. **Phoma Edgworthiæ** Sacc. Mich. II. p. 538. — Peritheciis grega- 473
riis subcutaneis, sæpe linea nigra, tortuosa, perithecia pauca, insulata cingente; sporulis ovato-fusoideis, $7-8 \approx 2,5$, 2-guttulatis, hyalinis; basidiis filiformibus, $30 \approx 1,5$.
- Hab.* in ramis putrescentibus Edgworthiæ chrysanthæ, Padova (BIZZOZERO).

95. **Phoma insculpta** (Roum.) Sacc., *Diplodia insculpta* Roum. Fung. 474
Gall. n. 22. — Peritheciis ligno basi infossis, gregariis, oblongis; sporulis fusoideis, 2-guttulatis, $8 \approx 2$; basidiis uncinatis, $24 \approx 1$, fultis.
Hab. in ramulis decorticatis *Daphnes Gnidii*, Collioure in Gallia merid. (ROUMEGUÈRE). — Spermogonium *Diaporthes*.
96. **Phoma diplodioides** Sacc. Mich. I. p. 522. — Peritheciis subcu- 475
taneo-erumpentibus, sparsis vel hinc inde aggregatis, globoso-conoideis, $\frac{1}{4}$ mill. d., papillatis, nigris; sporulis fusoideis, utrinque obtusiusculis, $12-15 \approx 3-3\frac{1}{2}$, hyalinis; basidiis brevissimis, linearibus, suffultis.
Hab. in ramis corticatis *Æsculi Hippocastani*, Rouen in Gallia (LETENDRE).
97. **Phoma coneglanensis** Sacc. Mich. II. p. 340. — Peritheciis sub- 476
cutaneis, gregariis, oblongis; sporulis oblongo-fusoideis, $7-8 \approx 3$, biguttulatis, hyalinis; basidiis acicularibus, $15 \approx 3$, suffultis.
Hab. in petiolis ramulisque *Æsculi Hippocastani*, in Italia et Gallia. — Spermogonium *Diaporthes*.
98. **Phoma controversa** (Nits.) Sacc. Mich. II. p. 616. — Peritheciis 477
gregariis, subtectis, intus griseis; sporulis fusoideis, $7-8 \approx 2-2\frac{1}{4}$, hyalinis, 2-guttulatis; basidiis curvulis, $12 \approx 1$.
Hab. in ramulis *Fraxini excelsioris*, in Gallia. — Spermogonium *Diaporthes*.
99. **Phoma fraxinea** Sacc. Mich. I. p. 526. — Peritheciis gregariis, 478
subcutaneo-erumpentibus, globoso-depressis, 110μ . diam., pertusis; contextu parenchymatico ochraceo-fusco; sporulis ovoideis, $8 \approx 4$, 1-2-guttatis, hyalinis.
Hab. in ramis *Fraxini Orni*, in Gallia et Germania.
100. **Phoma minima** Schulz. et Sacc. Micr. Slav. n. 45, Schulz. Ill. 479
Fung. n. 805. — Peritheciis laxe gregariis, subcutaneo-erumpentibus, atris, 150μ . diam., apice obtusis; sporulis tereti-oblongis, utrinque obtusis, 2-guttatis, $4-5 \mu$. longis, hyalinis; basidiis filiformibus, sporulâ quadruplâ longioribus.
Hab. in ramis corticatis *Fraxini excelsioris*, prope Vinkovce in Slavonia.
101. **Phoma domestica** Sacc. Mich. II. p. 90. — Peritheciis epider- 480
mide velatis, gregariis, subhemisphæricis, $\frac{1}{5}$ mill. d., pertusis; sporulis ovoideo-oblongis, $5 \approx 2$, hyalinis; basidiis filiformibus, $3-4 \mu$. long., suffultis.

Hab. in ramulis Jasmini officinalis, Saintes in Gallia (BRUNAUD).

102. **Phoma depressa** (Lév.) Sacc. Mich. II. 94, *Sphæropsis depressa* 481

Lév., *Phoma resecans* Sacc. Mich. I. p. 257. — Peritheciis subcutaneis, dein erumpentibus, globosis oblongisve, atris, copiosis, denique depressis, poro angusto leniterque prominulo pertusis; sporulis $10 \approx 2,5-3$, biguttatis; basidiis filiformi-uncinatis, $20-28 \approx 1,5$.

Hab. in ramis corticatis emortuis Syringæ vulgaris, in Gallia, Belgio et Italia.

103. **Phoma Syringæ** (Pr.) Sacc., *Gerulajacta Syringæ* Pr. Fung. 482

Hoyersw. n. 317. — Peritheciis cortici innatis, corneis, subpapillatis, atris; nucleo albo; basidiis filiformibus, curvatis albis; sporulis clavato-obovatis, albis.

Hab. in ramulis Syringæ sinensis, in hortis Hoyerswerd.

104. **Phoma syringina** Sacc. Cfr. Fuck. Symb. App. I. pag. 320. — 483

Peritheciis sparsis, sub epidermide nidulantibus, minutis; sporulis oblongo-lanceolatis, continuis, biguttulatis, hyalinis, $8 \approx 3$.

Hab. in ramis Syringæ vulgaris, socia *Diaporthe nodosa*, cujus est spermogonium, in Rhenogovia.

105. **Phoma syringica** Thüm. Pilzfl. Sibir. n. 789. — Peritheciis spar- 484

sis, mediis, hemisphærico-subconicis, prominentibus, obsolete ostiolatis, nigris; sporulis ellipsoideis, utrinque rotundatis, raro ovoideis, simplicibus, enucleatis, dilute fuligineis, $4 \approx 2$.

Hab. in ramulis tenuibus aridis Syringæ vulgaris, in hortis prope Minussinsk in Sibiria asiatica. — A *Phoma depressa* seu *resecante* Sacc. in Mich. I. p. 257: sporulis duplo minoribus bene distinguenda. An *Phoma Syringæ* B. et C. in Peck Rep. on St. Mus. N. Y. (nomen) in ramulis Syringæ in Amer. bor. huc spectet, non liquet.

106. **Phoma laurina** Thüm. Contr. Fung. Lit. n. 164, tab. I. fig. 10. 485

— Peritheciis gregariis, magnis, prominulis, primo tectis, demum liberis, orbiculatis, depresso-globosis, atris; sporulis longe-ellipticis, utrinque acutato-rotundatis, non vel binucleatis, simplicibus, $4-6 \approx 1,5-2$, hyalinis.

Hab. ad ramulos emortuos Lauri nobilis, Gorizia in Italia boreali.

107. **Phoma laurella** Sacc. Mich. II. p. 616 (sub nom. *Phoma nobilis*). 486

— Peritheciis gregariis, globuloso-depressis, suboblongis, subgriseis, tectis; sporulis oblongo-fusoideis, rectiusculis, $8-10 \approx 3-4$, hyalinis; basidiis bacillaribus, $8 \approx 1,5$.

Hab. in ramis corticatis Lauri nobilis, Saintes in Gallia (BRUNAUD). — Spermogonium *Diaporthes*.

108. **Phoma dolichopus** Penz. Mich. II. p. 427. — Peritheciis sparsis, 487
hypodermeis, demum erumpentibus, epidermide cinctis, sphæroideis,
vix mamillatis, contextu filamentoso, brunneolis, 250-280 μ . d.;
sporulis minutis, ellipsoideis, 3-3,5 \times 2-2,5, hyalinis, eguttulatis;
basidiis longissimis, filiformibus, flexuosis, fasciculatis, 30-35 \times 1,
5-2, hyalinis.

Hab. in ramulis vivis, corticatis Citri Limonum, in horto botanico Patavino.

109. **Phoma densipes** Penz. et Sacc. F. Agrum. II. Contr. p. 14. — 488
Peritheciis aggregatis, hypodermicis, dein prorumpentibus, subglo-
bosis, atro-brunneis; contextu parenchymatico, 210-240; ostiolo
late aperto; basidiis dense congregatis, simplicibus, cylindræis,
integris, brunneolis vel fuscescentibus, 5-10 \times 2-2,5; sporulis ob-
longo-ellipticis, utrinque attenuatis, obtusis, eguttulatis, hyalinis,
8-10 \times 3-3,5.

Hab. in ramulis emortuis Citri Limonum, Mortola in Ita-
lia boreali.

110. **Phoma Aurantiorum** (Rabenh.) Sacc. *Sphæropsis Aurantiorum* 489
Rabh. Not. XXIII. in Marcucci Un. itin. 1866 (non vidi). — Sporu-
lis minutis, oblongis, utrinque obtuse rotundatis, continuis, hyalinis.

Hab. in ramulis Citri Aurantii, in Italia. — Specimina sub
nomine *Sphæropsidis Aurantiorum* Rabenh. in Roum. F. G. n. 90,
iterum observata, ad *Gleosporium intermedium* Sacc. ducen-
da esse puto.

111. **Phoma Limonis** Thüm. et Bolle, Contr. Fl. mic. Lit. p. 29. — 490
Peritheciis dense gregariis, patellæformibus, planis, immersis, mi-
nutis, nigris; sporulis minutissimis, cylindræis, enucleatis, utrin-
que obtusatis, vix subrotundatis, hyalinis, 3 \times 1-1,5; basidiis haud
visibilibus.

Hab. in ramulis aridis Citri Limonum, Gradisca (THÜMEN),
Coimbra (MOLLER), in Gallia (ROUMEGUÈRE), Padova (PENZIG).

112. **Phoma Limoniæ** Penz. Mich. II. p. 429. — Peritheciis grega- 491
riis, hypodermeis, sphæroideis, depressis, 120-140 μ . diam., atro-
brunneis; contextu parenchymatico; sporulis breve ellipticis, utrin-
que rotundatis, 3,5-4 \times 2,5-3, hyalinis, 2-guttulatis; basidiis bre-
vissimis, 6-7 \times 4-5.

Hab. in ramulis siccis Limoniæ australis, in frigidariis
Strà in Italia boreali.

113. **Phoma iners** Penz. Mich. II. p. 428. — Peritheciis sparsis, hy- 492
podermicis, sphæroideis, demum prorumpentibus, aterrimis, 300-400
 μ . diam.; contextu parenchymatico; sporulis breve ellipticis, 6-7
 \approx 3,5-4,5, hyalinis, eguttulatis, rarius biguttulatis; basidiis obso-
letis vel nullis.

Hab. in maculis albidis ramulorum subvivorum Citri Au-
rantii, in horto botanico Patavino. — Nonnullis notis ad *Phyl-
lostictam* nutat.

114. **Phoma myelocola** (Pr.) Sacc. *Sphærocista myelocola* Pr. Hoy- 493
ersw. n. 308. — Peritheciis tenuibus, subglobosis, minutis, con-
fertis, subpapillatis, fuscis, in myelostromate («?») elongato con-
ceptis; nucleo albo, mucoso; basidiis filiformibus; sporulis fusifor-
mibus, subcurvatis, albis; cirris albis.

Hab. in cortice exsiccato Citri Aurantii, in hibernaculis
Hoyerswerda.

115. **Phoma scabella** Penz. Mich. II. pag. 430. — Peritheciis dense 494
gregariis, hypodermeis, demum erumpentibus, sphæroideo-depres-
sis, 250-300 μ . diam.; ostiolo epidermide albescente circumdato;
sporulis oblongo-ellipticis, utrinque acutiusculis, biguttulatis, hya-
linis, 7-9 \approx 2,5-3,5; basidiis dense aggregatis, filiformibus, simplici-
bus, 25-36 \approx 2-2,5, subarcuatis.

Hab. in ramulis emortuis Citrorum, Padova in Ital. bor.

116. **Phoma Citri** Sacc. Fungi Ven. novi vel critici, Ser. V. p. 294, 495
Mich. II. p. 427. — Peritheciis sublenticularibus, majusculis, 250-
350 μ . diam., depressis, vix papillatis, sæpius elongatis, immersis,
demum liberis, aterrimis; sporulis elongato-ellipticis vel oblongis,
utrinque obtusiusculis, hyalinis, biguttulatis, 7-8,5 \approx 2, 5-3,5; ba-
sidiis longis, dense stipatis, 25-40 \approx 2-3, hyalinis, guttulatis, deni-
que uncinatis.

Hab. in ramis et in ligno decorticato Citrorum, in Italia
boreali et Lusitania. — Spermogonium *Diaporthes*.

117. **Phoma Nerii** Speg. Mich. I. p. 482. — Stromate late ambiente, 496
lignum extus nigrificante; peritheciis minutis, ligno corticato vel
decorticato immersis, atris; sporulis ellipticis vel oblongo-ellipticis,
6-9 \approx 3-4, 2-guttulatis, hyalinis.

Hab. in ramulis emortuis Nerii Oleandri, Conegliano in
Ital. bor. — Spermogonium *Diaporthes*.

118. **Phoma? heteromorpha** Schulz. et Sacc. Micr. Slav. n. 44, Schulz. 497
Ill. Fung. Slav. n. 844. — Peritheciis gregariis, subcutaneo-erum-
pentibus, globulosis, obtusis, $\frac{1}{2}$ - $\frac{3}{4}$ mill. diam., intus pluriloculari-

bus (?); sporulis ellipsoideis vel suboblongis, utrinque rotundatis, 6-9 \approx 3-4, 2-guttatis, hyalinis; basidiis obsoletis.

Hab. in ramis corticatis Nerii Oleandri, prope Vinkovce. — Totus habitus et sporulæ *Phomæ*, hinc loculi verisimiliter spurii et orti ex casuali nuclei sporigeri partitione.

119. **Phoma cymbispora** (B. et C.) Sacc., *Sphæroopsis cymbispora* 498

B. et C. North Amer. F. n. 414. — Peritheciis sparsis, vix prominulis, obtusis, epidermide cinctis; sporulis cymbæformibus, endochromate utrinque retracto, 15 μ . longis, subchlorinis.

Hab. in ramulis Vaccinii, New England in America bor. (RUSSEL).

120. **Phoma affinis** Brunaud Rev. Myc. IV. pag. 225. — Peritheciis 499

sparsis, punctiformibus, minutis, nigris, nitidis; sporulis ovoideis, 2-guttulatis, subhyalinis, 7 \approx 2,5.

Hab. in ramulis emortuis Ericæ scopariæ, Saintes in Gallia.

121. **Phoma Callunæ** Karst. Hedw. 1884, p. 60. — Peritheciis sub- 500

sparsis, sphæroideo-applanatis, epidermide semper tectis; ostiolo minuto, papillato, prominulo, atro, 0,2 mill. lat.; sporulis ellipsoideis, utrinque obtusissimis et rotundatis, hyalinis, eguttulatis, 12-14 \approx 7-8.

Hab. ad ramos exsiccatos Callunæ vulgaris, Mustiala in Fennia.

122. **Phoma Ericæ** (Fr.?) Sacc. Mich. II. p. 336, *Sphæria Ericæ* Fr. 501

El. II. p. 101 (?). — Peritheciis majusculis, denique superficialibus, globoso-depressis, papillulatis, nigris, tandem dilabentibus et in matrice maculam subcircularem $\frac{1}{2}$ mill. d., nigricantem relinquentibus; sporulis oblongo-ovoideis, utrinque obtusiusculis, 14-15 \approx 6-7, nubiosis, hyalinis; basidiis bacillaribus, 12-15 \approx 1 $\frac{1}{2}$, hyalinis, suffultis.

Hab. in trunco emortuo Ericæ vulgaris, Brionne in Gallia (MALBRANCHE).

123. **Phoma obturata** (Fr.) Sacc., *Sphæria obturata* Fr. S. M. II. 502

495. Cfr. Syll. II. 421, Curr. Simpl. Sphær. p. 329. — Peritheciis erumpentibus, subliberis, levibus, regularibus, atris, rimis pluribus dehiscentibus, demum collabascentibus; sporulis curvulis, hyalinis, 10 μ . longis.

Hab. in ramulis foliisque Ericacearum, in Suecia.

124. **Phoma Rhois** Sacc. Mich. II. p. 340. — Peritheciis gregariis, 503

subcutaneo-erumpentibus, globoso-depressis, obsolete pertusis; spo-

rulis, oblongo-teretiusculis, $10 \approx 2-2\frac{1}{4}$, 2-guttulatis; basidiis filiformi-hamatis, $25 \approx 1$, suffultis, hyalinis.

Hab. in ramulis emortuis Rhois Cotini, in Gallia (ROUMÈGUE). — Spermogonium *Diaporthes Rhois* Nits.

125. **Phoma pulchella** (B. et C.) Sacc., *Sphæropsis pulchella* B. et C. 504
North Amer. Fungi n. 415. — Peritheciis in stromate communi circinantibus; sporulis fusiformibus, brevibus, hyalinis, trinucleatis; basidiis brevibus.

Hab. in ramis Rhois copallinæ, in Carolina inferiore.

126. **Phoma Nitriaræ** (Thüm.) Sacc., *Sphæropsis Nitriaræ* Thüm. 505
Pilzfl. Sibir. n. 792. — Peritheciis sparsis, punctiformibus, prominentibus, primo epidermide tectis, demum liberatis et e rima exsertis, parvulis, nigris; sporulis ovatis vel ellipsoideis vel globuloso-ovoideis, continuis, utrinque rotundis, enucleatis, $8-10 \approx 5-7$, hyalinis; basidiis brevissimis, achrois.

Hab. in ramulis vivis Nitriaræ Schoberi, in salsis prope Ujbat, fluv. Sibiria.

127. **Phoma Corni** Fuck. Symb. 207 (ad *Diaporthem Corni*), Mich. 506
II. p. 94. — Peritheciis sparsis, sub epidermide nidulantibus, demum erumpentibus, et epidermide nigrificata cinctis, minutis, subglobosis, papillatis; sporulis oblongo-cylindræis, curvulis, 2-3-guttulatis, $8-10 \approx 2-3$ («basidiis uncinatis $25 \approx 1$ »).

Hab. in ramis corticatis Corni sanguineæ et albæ, in Germania et Gallia.

128. **Phoma Corni-Suecicæ** (Fr. p. p.) Sacc., *Sphæropsis Corni-Suecicæ* (Fr. p. p.) Curr. Simpl. Sphær. p. 330, *Sphæria Corni-Suecicæ* Fr. p. p. Cfr. Syll. I. 547. — Peritheciis sparsis, depressis; ostiolo vix manifesto; sporulis cylindræis, rectis, hyalinis, 5μ . longis.

Hab. in ramis Corni Suecicæ, in Suecia.

129. **Phoma diatrypea** (C. et E.) Sacc., *Sphæropsis diatrypea* C. et E. 508
in Grevillea tab. 95, fig. 6. — Peritheciis confluentibus in stroma diatrypoideum, atris, erumpentibus, epidermide fissa cinctis; sporulis ellipticis, hyalinis, in cirros pallidos emergentibus, $12 \approx 5$.

Hab. in ramis Chionanthi, New Jersey in Amer. bor.

130. **Phoma megasperma** Speg. F. Argent. Pug. III. n. 98. — Peri- 509
theeciis subepidermicis, densiuscule gregariis, lenticularibus, $100-120 \mu$. diam., membranaceis; contextu parenchymatico, olivaceo-fuligineo; ostiolo impresso pertusis; sporulis in sterigmatibus cylindræis, parvulis, $10-18 \approx 5$, hyalinis, acrogenis, ellipticis, utrin-

que obtuse acutatis, granuloso-farctis, non vel 1-guttulatis, 15-22 \approx 6-8, hyalinis.

Hab. ad ramulos foliaque emortua vel languentia Polygalæ myrtifoliæ, en el Paseo de Julio prope Buenos-Aires. — Forma ramulicola ad *Dothiorellam* vergit, forma vero foliicola ad *Phomam* accedit.

131. **Phoma lirelliformis** Sacc. Mich. I. p. 522. — Peritheciis parallele 510
dense gregariis, lineari-oblongis, $\frac{1}{2}$ - $\frac{3}{4}$ \approx $\frac{1}{8}$ mill. d., innatis, dein
rimose erumpentibus; sporulis ovato-oblongis, rectis, 2-guttulatis,
7 \approx 3-3 $\frac{1}{2}$, hyalinis (basidiis non visis).

Hab. in ramis decorticatis Rhamni Alaterni, in Gallia.
— Forma **ribicola**: sporulis 8 \approx 2,5; basidiis bacillaribus, 20 \approx 2,
suffultis. — Affinis *Ph. leptidæ*, *Ph. lirellatæ* et *Ph. stricæfor-*
mi, a quibus tamen satis differt.

132. **Phoma pulla** Sacc. Mich. II. p. 96, *Ph. Hederæ* Fuck. nec Desm. 511
— Peritheciis gregariis, epidermide subinde atrata velatis, depres-
sis; sporulis oblongis, 8 \approx 2, 2-guttulatis; basidiis uncinatis, 15-
16 \approx 1, suffultis.

Hab. in ramulis emortuis Hederæ Helicis, in Italia bor.
et Gallia. — Spermogonium *Diaporthes pullæ*.

133. **Phoma macrostoma** Mont. Syll. n. 974 et Cent. VI. n. 42, in 512
Ann. 3, XI. p. 52. — Peritheciis tectis, gregariis, globoso-depres-
sis, minutissimis, fusco-atris, poro amplo vertice pertusis; sporulis
perexiguis, oblongo-ovoideis, hyalinis, utroque fine, 1-guttatis, 6-
7 \approx 2,5-3.

Hab. in ramis Hederæ Helicis, apud Salon, Galloprovin-
cia (CASTAGNE).

134. **Phoma Helicis** Pass. et Beltr. F. Sic. n. 21. — Peritheciis sub- 513
globosis, tectis, fuscis, epidermidem sublevantibus; sporulis fusi-
formibus, cylindricis, rectis, hyalinis, apicibus minute nucleatis,
13-15 \approx 2 $\frac{1}{2}$; basidiis non uncinatis.

Hab. in ramulis aridis Hederæ Helicis, Monostalla in Si-
cilia. — A *Phoma pulla* rite diversa.

135. **Phoma Opuli** Thüm. Contr. Myc. Lus. n. 564. — Peritheciis 514
sparsis v. solitariis, globulosis, exsertis, nigris, mediis, epidermide
cinctis; sporulis late ellipsoideis, utrinque rotundatis, uni- v. ple-
rumque non nucleatis, hyalinis, 5 \approx 4-4,5.

Hab. in ramulis subaridis Viburni Opuli, prope Lisboa in
Lusitania (DA VEIGA).

136. **Phoma tineæ** Sacc. Mich. I. p. 521. — Stromate obsoleto; pe- 515

peritheciis cortice nidulantibus, gregariis, oblongis, $\frac{1}{2} \approx \frac{1}{4}$ mill. d.; nucleo griseo; sporulis fusoido-oblongis, $8 \approx 2$, 2-guttulatis, hyalinis; basidiis linearibus, sursum acutioribus, $15 \approx 1\frac{1}{2}$, hyalinis.

Hab. in ramulis emortuis Viburni Tini, Rouen in Gallia (LETENDRE). — Spermogonium *Diaporthes*.

137. **Phoma hyalina** (B. et C.) Sacc., *Sphæroopsis hyalina* B. et C. 516
North Amer. F. n. 409. — Peritheciis epidermide pustulata sub-
tectis; sporulis ellipticis, hyalinis, 26-32 μ . longis.

Hab. in ramis Ribis rubri, Viburni dentati, Fraxini Americanæ, in America boreali.

138. **Phoma ribesia** Sacc. Mich. I. p. 520 (*Ph. pungens*). — Peri- 517
theeciis gregariis, tectis, erumpentibus, globoso-depressis; sporulis
oblongo-fusoidis, subinæquilateralibus, $10 \approx 3\frac{1}{2}$, 2-guttulatis, hya-
linis basidiis fasciculatis, filiformibus, subæquilongis.

Hab. in ramulis Grossulariæ, prope Rouen in Gallia (LE-
TENDRE). — Spermogonium, ut videtur, *Diaporthes pungentis* Nits.

139. **Phoma Grossulariæ** Schulz. et Sacc. Micr. Slav. n. 43, Schulz. 518
Ill. Fung. Slav. n. 790. — Peritheciis gregariis, globoso-depressis,
initio epidermide velatis, apice obtuso pertusis, 0,2-0,3 mill. d.;
sporulis oblongis, perexiguis, 6-9 μ . long., hyalinis; basidiis ob-
soletis.

Hab. in ramulis Ribis Grossulariæ, prope Vinkovce.

140. **Phoma Lycii** Sacc. Cfr. Hazl. Sph. der Lyc. p. 450, tab. XIV. 519
fig. 7-8. — Peritheciis gregariis subcutaneis, globoso-papillatis,
atris, initio basi pilosis, dein calvescentibus; sporulis cylindraceo-
oblongis, hyalinis (10-12 μ . longis?); basidiis duplo longioribus,
acicularibus.

Hab. in ramulis Lycii barbari, socia *Fenestella Lycii*, in
Hungaria.

141. **Phoma abdita** Sacc. Mich. II. p. 96. — Peritheciis tectis, glo- 520
boso-depressis, griseis, gregariis; sporulis fusoidis, $10 \approx 2$, 2-gut-
tatis, hyalinis; basidiis, 10-12 long., filiformibus, suffultis.

Hab. in ramis Meliæ Azedarach, Toulouse in Gallia. —
Spermogonium *Diaporthes*.

142. **Phoma perforans** (Lév.) Sacc., *Sphæroopsis perforans* Lév. Ann. 521
Sc. Nat. 1846, p. 297. — Peritheciis gregariis, epidermide sece-
dente cinctis; sporulis ellipticis, obtusis, pellucidis.

Hab. ad ramos Sterculiæ platanifoliæ, Avignon in Gal-
lia (REQUIEN).

143. **Phoma Volkameriæ** Speg. Mich. I. p. 481. — Peritheciis asto- 522

mis (?), epidermide nigrificata atque tumefacta, nitente tectis, globoso-lenticularibus, 150-200; sporulis hyalinis, ellipticis, utrinque attenuatis, obtusiusculis, non vel 1-2-guttulatis, 7-11 \approx 3-5.

Hab. in ramulis emortuis putrescentibus Volkameriæ fragrantis, Conegliano in Ital. bor. — Spermogonium *Diaporthes*.

144. **Phoma viridarii** Sacc. Mich. II. p. 96. — Peritheciis gregariis, 523
velatis, globoso-depressis, 120 μ . diam., poro pertusis; sporulis fusoideis, 9-10 \approx 3, 2-guttatis, hyalinis; basidiis brevioribus, cylindræis, suffultis.

Hab. in ramis Magnoliæ grandifloræ, Saintes in Gallia (BRUNAUD). — Spermogonium *Diaporthes*.

145. **Phoma stictica** B. et Br. Ann. N. H. n. 400. — Peritheciis sub- 524
sparsis, exiguis, epidermide dein longitudinaliter fissa velatis; sporulis oblongo-ellipsoideis, biguttulatis, hyalinis, 7-8 \approx 3-3,5, stipitellatis.

Hab. in ramis putrescentibus Buxi sempervirentis, in Italia, Britannia, Austria, Gallia. — Spermogonium *Diaporthes retectæ* Fuck.

146. **Phoma Robergeana** Sacc. Mich. I. p. 520. — Peritheciis gre- 525
gariis, subcutaneo-erumpentibus, globoso-depressis, vix pertusis; sporulis, 9 \approx 2, eguttulatis, hyalinis, curvulis; basidiis filiformibus, 25-30 \approx 1 $\frac{1}{2}$.

Hab. in ramulis Staphyleæ pinnatæ, Saintes in Gallia (BRUNAUD). — Spermogonium *Diaporthes*.

147. **Phoma Poinsettiae** Sacc. Mich. II. pag. 341. — Peritheciis laxè 526
gregariis, subcutaneis, globoso-oblongis, nigro-olivaceis; sporulis ovato-oblongis, 6-7 \approx 1 $\frac{1}{2}$ -2, utrinque obtusiusculis, 2-guttulatis, hyalinis; basidiis bacillaribus, crassiusculis, sesquilongioribus, suffultis.

Hab. in ramis emortuis Poinsettiae pulcherrimæ, in calidariis Lyon in Gallia (TERRY). — Spermogonium *Diaporthes*.

148. **Phoma Ophites** Sacc. Misc. myc. n. 2262. — Peritheciis subcu- 527
taneis, globoso-depressis, atro-olivaceis, subinde linea stromatica nigricante subcorticali cinctis; ostiolo obtuso, erumpente; sporulis fusoideis, rectis, 10 \approx 2, 2-guttatis, hyalinis; basidiis acicularibus, fasciculatis, 15 \approx 1,5, hyalinis.

Hab. in ramulis emortuis Hibisci syriaci, Saintes in Gallia (BRUNAUD). — Spermogonium *Diaporthes Ophites* Sacc.

149. **Phoma exul** Sacc. Mich. II. p. 95. — Peritheciis gregariis, te- 528
ctis stratoque stromatico nigro conjunctis, globoso-depressis, initio

griseis; sporulis cylindræis, utrinque obtusiusculis, 10-11 \approx 2, 2-guttatis, hyalinis; basidiis filiformibus, curvulis, suffultis.

Hab. in ramis corticatis Macluræ aurantiacæ, Saintes in Gallia. — Spermogonium *Diaporthes*.

150. **Phoma Escallonæ** Sacc. Mich. II. p. 340. — Peritheciis gregariis, subcutaneis, oblongis, griseis; sporulis ovato-oblongis, 7 \approx 2, biguttatis, hyalinis; basidiis acicularibus, 15 \approx 1, suffultis.

Hab. in ramis corticatis Escallonæ, Rouen in Gallia. — Spermogonium *Diaporthes*.

151. **Phoma Diospyri** Sacc. Mich. I. p. 258. — Peritheciis gregariis vel subaggregatis, cortice secedente, subsuperficialibus vel semiimmersis, globoso-papillatis, nigris, contextu parenchymatico subcarbonaceo; sporulis fusoides, 7-8 \approx 2, rectis v. leniter curvis, 2-guttulatis, hyalinis; basidiis fasciculatis, filiformibus, simplicibus ramulosive, 18-20 \approx 1 $\frac{3}{4}$, hyalinis, e strato prolifero subochraceo orientibus.

Hab. in ramis decorticatis Diospyri Loti, in horto botanico Patavino.

152. **Phoma Kœlreuteriæ** Sacc. Mich. II. p. 60. — Peritheciis punctiformibus, subtectis; sporulis oblongo-cylindræis, 4 \approx 1-2; basidiis duplo longioribus suffultis.

Hab. in ramis Kœlreuteriæ paniculatæ, Bordeaux in Gallia.

153. **Phoma mixta** B. et C. North Amer. Fungi n. 388. — Subcorticalis, pustulata, sero liberata; sporulis utrinque apiculatis, breve fusoides, 6 μ . longis, subæqualibus; processibus filiformibus, apice curvatis, intermixtis, 18 μ . longis.

Hab. in ramis corticatis Liriodendri, Viburni opulifolii, in Carolina et Pennsylvania, regionibus Americæ bor. — «Processus verisimiliter sunt basidia jam liberata».

154. **Phoma macropus** B. et C. North Amer. Fungi n. 376. — Subcuticularis; peritheciis sparsis cum cuticula secedentibus, demum collapsis; basidiis flexuosis, sporulâ breviter oblongâ, 5-6-plo longioribus.

Hab. in turionibus albis cujusdam fruticis, in Amer. bor.

155. **Phoma seriata** Lév. Ann. Sc. Nat. 1845, p. 63. — Erumpens; peritheciis ovatis vel globosis nigris, seriatis, intus nigris; ostioli obsolete papillatis, pertusis; sporulis ellipsoideis, continuis.

Hab. ad cortices, in insula Java (JUNGHUHN).

156. **Phoma Keckii** (Thüm.) Sacc. *Sphæropsis Keckii* Thüm. in Rev. 535

- Mycol. n. XV. — Peritheciis numerosis, dense gregariis, primo tectis, demum erumpentibus et epidermide ad basim cinctis, hemisphærico-subconicis, vix emersis vel protuberantibus, submagnis, aterrimis; sporulis ellipsoideis vel subglobulosis, sæpe apice angustatis, utrinque rotundatis, intus homogeneis, episporio tenui, 20-26 \approx 10-16, achrois.
- Hab.* in caulibus subemortuis *Calotropidis giganteæ*, Canara in Ind. orient. (DR. KECK).
157. **Phoma Tecomæ** Sacc. Fungi Ven. Ser. V. p. 201. — Peritheciis 536 sub epidermide parum tumidula, tenuissime fissa nidulantibus, hinc inde zona nigra circumscriptis, minutis, lenticularibus, nigris; sporulis fusoides, 8 \approx 3, utrinque obtusiusculis, 2-guttulatis, hyalinis, sterigmatibus filiformibus, curvulis, 20 \approx 1, fultis.
- Hab.* in sarmentis *Tecomæ radicans*, prope Treviso in Italia bor. et prope Rouen in Gallia. — Spermogonium *Diaporthes*.
158. **Phoma Baculum** (Ger.) Sacc., *Sphæropsis Baculum* Ger. in Gre- 537 villea. — Peritheciis erumpentibus, subgregariis, obtusis, epidermide cinctis; sporulis cylindræis, obtusis, hyalinis, in cirros ochraceos emergentibus, 20 \approx 4.
- Hab.* in ramis *Catalpæ*, New York in Amer. bor.
159. **Phoma pustulata** Sacc. Cfr. Tul. Carp. II. p. 163. — Peritheciis 538 subcutaneis, gregariis, globoso-depressis vel conicis, subinde pluribus zona atrata cinctis, subastomis, vertice erumpentibus; sporulis oblongis, 10-13 \approx 3,5; basidiis hamatis, 14 μ . longis.
- Hab.* in ramis *Aceris Pseudoplatani*, in Gallia. — Spermogonium *Diaporthes pustulatæ*.
160. **Phoma protracta** Sacc. Mich. I. p. 259. — Peritheciis in acer- 539 vulos elongatos, subparallelos digestis, erumpentibus, globulosis, papillatis, aterrimis; sporulis minutis, oblongis, 4 \approx 1 $\frac{3}{4}$, hyalinis; basidiis filiformibus, fasciculatis, hyalinis, 25 \approx 1 $\frac{1}{2}$, suffultis.
- Hab.* in ramis corticatis emortuis *Aceris campestris*, Padova in Italia bor. — Verisimiliter status spermogonicus *Cucurbitariæ protractæ* Fuck.
161. **Phoma consors** C. et E. in Grevillea cum icone. — Cæspitosa, 540 atra; peritheciis superficialibus, globosis; sporulis linearibus, truncatis, utrinque nucleatis, 14 μ . long.
- Hab.* in ramis decorticatis *Aceris*, New York in Amer. bor. (ELLIS). — Cæspituli e 3-4 peritheciis minutis atro-nitidulis compositi. — An *Dothiorellæ* species?
162. **Phoma Lebiseyi** Sacc. Mich. I. p. 257. — Peritheciis gregariis, 541

epidermide velatis, globoso-depressis, atris; sporulis ovato-fusoides, 8-10 \approx 3, 2-guttatis, hyalinis; basidiis filiformibus, sesquilon-gioribus, fultis.

Hab. in ramis emortuis Aceris Negundinis, Conegliano in Italia bor., et in Gallia merid. (ROUMEGUÈRE). — Spermogonium *Diaporthes Lebiseyi*.

163. **Phoma velata** Mich. II. p. 96. — Peritheciis tectis, dein epi- 542
dermide lacerata semi-detectis, globulosis; contextu olivaceo-fusco; sporulis oblongis, 10-12 \approx 2½, 2-guttulatis, hyalinis; basidiis filiformibus, 20 \approx 1½, suffultis.

Hab. in ramis corticatis Tiliæ europææ, Rouen in Gallia. — Spermogonium *Diaporthes*. — Forma **minor**: sporulis breve fusoides, 7-7½ \approx 1¾-2, biguttulatis, hyalinis; basidiis bacillaribus, brevibus, 10-14 \approx 1, suffultis. — In ramis Tiliæ, Saintes in Gallia.

164. **Phoma Scheidweileri** (West.) Sacc., *Sphæroopsis Scheidweileri* 543
West. Not. V. p. 20. — Peritheciis tectis, membranaceis, atrobunneis, dein nigris, globuloso-depressis, sparsis vel aggregatis, innatis, dein prominulo-erumpentibus; nucleo albido; ostiolo papillato, dein deciduo peritheciumque cupulatum relinquente; sporulis ovoideo-elongatis, hyalinis, dein protrusis, 24-30 \approx 12-14.

Hab. in cortice Tiliæ, prope Gand in Belgio. — An *Diplodice Scheidweileri*, seu *D. pustulosæ* Lév. statum mere sistat immaturum, nondum liquet.

165. **Phoma imperialis** Sacc. et Roum. Mich. II. p. 330 (sub nomine 544
P. Paulowniæ). — Peritheciis gregariis, epidermide denigrata atque maculosa velatis, globoso-depressis; sporulis oblongis, 8 \approx 3, biguttulatis, hyalinis.

Hab. in petiolis Paulowniæ imperialis, in horto Garrenne de Nerac in Gallia. — Spermogonium *Diaporthes*.

166. **Phoma Paulowniæ** Thüm. Contr. Fung. Lit. n. 171, t. I. f. 33. 545
— Peritheciis sparsis, primo epidermide tectis, demum rimoso-perforantibus in rimis longissimis, globosis, atris; sporulis minutis, enucleatis, cylindricis v. cylindrico-ovatis, utrinque rotundato-acutatis, hyalinis, 3,5-5 \approx 1,5.

Hab. in ramulis aridis Paulowniæ tomentosæ, Gorizia in Italia boreali.

167. **Phoma Rosmarini** Speg. Mich. I. p. 481. — Peritheciis super- 546
ficialibus, ligno circumnigrificato decorticato adnatis, lenticulari-hemisphæricis, atris, rugulosis, 2-3, stromatice aggregatis, 200-250

$\mu.$ diam., carbonaceis; sporulis ovoideo-fusoideis, inferne acutiusculis, antice obtusis, hyalinis, granuloso-farctis, minute 2-guttulatis, 6-10 \approx 2-3.

Hab. in ramulis emortuis Rosmarini officinalis, Conegliano in Italia bor. — Spermogonium *Diaporthes*.

168. **Phoma Lagerstrœmiæ** Speg. Mich. I. p. 482. — Peritheciis ligno stromatice nigrificato immersis, 110-150 $\mu.$ diam.; ostiolo pertuso, papillato donatis; sporulis ovoideo-ellipticis, utrinque obtusiusculis, hyalinis, 2-guttulatis, 7-10 \approx 2-3. 547

Hab. in ramulis emortuis Lagerstrœmiæ indicæ, Conegliano in Italia bor. — Spermogonium *Diaporthes*.

169. **Phoma tamaricaria** Sacc. Mich. II. p. 95 (sub nomine *Ph. tamaricina*). — Peritheciis velatis, globoso-depressis, gregariis, fusoides, 9 \approx 2, 2-guttulatis, hyalinis; basidiis uncinatis, 30 \approx 1, suffultis. 548

Hab. in ramulis Tamaricis africanæ, S. Laurent in Gallia. — Spermogonium *Diaporthes*.

170. **Phoma africana** Speg. Revue mycol. II. p. 161. — Peritheciis lenticularibus, parvulis, 130-150, coriaceo-membranaceis, primo subepidermicis, dein epidermide secedente, liberis, atris; contextu pachydermatico fuligineo; sporulis ellipticis vel ovoideis, hyalinis, 4-7 \approx 3-5 $\mu.$ 549

Hab. ad ramulos emortuos Tamaricis africanæ, in ora maritima, S. Vincent, insula Africae.

171. **Phoma rimincola** Sacc. Mich. I. p. 523. — Peritheciis subgregariis, subliberis, globoso-conoideis, 110-120 $\mu.$ diam., pertusis, nigris, intus albidis; sporulis cylindraceutis, rectis, utrinque obtusis, 5 \approx 1, hyalinis. 550

Hab. in ramis Tamaricis anglicæ cum *Rosellinia rimincola*, in Gallia (BRUNAUD).

172. **Phoma tamaricella** Sacc. Mich. II. p. 92 (sub nomine *Ph. Tamaricis*). — Peritheciis corticulis, tectis, $\frac{1}{6}$ mill. d., globulosis, ostiolo erumpente papillato; sporulis breve cylindraceutis, perexiguis, 4 \approx $\frac{3}{4}$, rectiusculis, hyalinis; basidiis subnullis. 551

Hab. in ramulis Tamaricis anglicæ, Rouen in Gallia (LETENDRE). — An satis diversa a *Phoma tamaricina* Thüm.?

173. **Phoma tamaricina** Thüm. in Oesterr. bot. Zeitschr. 1877, p. 12. — Peritheciis subglobosis, semiimmersis, erumpentibus, gregariis, minutis, atris; sporulis minimis, cylindraceutis, rectis vel leniter curvatis, utrinque obtusatis, sine nucleo, vitreis, 5-6 \approx 1-1.5. 552

- Hab.* in ramulis emortuis sed adhuc pendulis Tamaricis gallicæ, Krems in Austria (THÜMEN).
174. **Phoma Tamarisci** (Mont.) Sacc. *Clisosporium Tamarisci* Mont. 553
Cent. VII. p. 341-9. — Minuta tecta, dein nuda; peritheciis $\frac{1}{3}$ - $\frac{1}{10}$ mill. diam., membranaceis, sphæricis, atris, opacis, exsiccatione depresso-umbilicatis, specie ostiolatis, irregulariter dehiscentibus; sporulis globoso-suboblongis, 6,5 μ . longis, innumeris.
Hab. sub cuticula corticis Tamaricis gallicæ, prope Montand in Gallia australi (CASTAGNE).
175. **Phoma hapalocystis** Sacc. *Calosporæ hapalocystis* spermog. 554
Fuck. Symb. Myc. p. 191. — Peritheciis sub cortice demum fissa cæspitosis, globosis, papillatis, nigris; sporulis minutissimis, cylindraceis, curvatis, 3 \approx 1.
Hab. in ramis emortuis Platani, in Rhenogovia.
176. **Phoma scabra** Sacc. Mich. II. p. 340. — Peritheciis dense gregariis, globoso-depressis, subcutaneo-erumpentibus, olivaceo-farctis; sporulis breve fusoides, acutiusculis, 7-8 \approx 2-2 $\frac{1}{2}$, biguttulatis, hyalinis; basidiis filiformibus, curvis, duplo longioribus, suffultis.
Hab. in ramis corticatis Platani, in Gallia (THERRY). — Spermogonia *Diaporthes*.
177. **Phoma notha** Berk. Ann. N. H. n. 395. — Peritheciis spuriiis, 556
subtus hic illic elevatis, indeque spurie plurilocellatis, subcirculatis; sporulis obovatis, deorsum acutioribus.
Hab. in ramis emortuis Platani, in Britannia. — Probabiliter *Fusicocci* species.
178. **Phoma Radula** B. et Br. Ann. N. H. n. 396. — Peritheciis tennellis, late conicis, subcutaneo-erumpentibus, prominentibus, hinc matricem asperantibus, contextu tenui, laxo parenchymatico; sporulis minutis, oblongo-ellipsoideis, biguttulatis, rarius 3-guttatis, hyalinis.
Hab. in ramis emortuis Platani, in Britannia.
179. **Phoma stictina** Sacc. *Coccularia stictica* Berk. North Am. F. 558
n. 451. — Peritheciis punctiformibus, nigris, subinde confluentibus; sporulis breviter ellipticis, 1-nucleatis, 7-8 \approx 6.
Hab. in ramis corticatis Platani etc., in Carolina merid. — *Coccularia* Corda est *Coniosporio* analoga.
180. **Phoma sphærospora** Sacc. Mich. II. p. 338. — Peritheciis gregariis, erumpenti-superficialibus, globulosis, obtuse papillatis, densiusculis, nigris, $\frac{1}{3}$ mill. diam.; sporulis globulosis, deorsum brevissime apiculatis, 9-14 \approx 8-10, nucleo nucleolato fœtis, hyalinis.

Hab. in ramulis Ailanthi (?), Lyon in Gallia (THERRY). —
Phomæ Hippoglossi affinis.

181. **Phoma Ailanthi** Sacc. — Peritheciis acervulatis, conoideis, atris, 560
innato-emergentibus; sporulis ovato-fusoideis, hyalinis, 2-guttula-
tis, $7 \approx 2,5$; basidiis filiformi-arcuatis, $25 \approx 0,5$.

Hab. in ramis Ailanthi glandulosæ, in Italia boreali. —
Spermogonium *Diaporthes Ailanthi* Sacc. (Syll. I. 621).

182. **Phoma ailanthina** Thüm n. Sp. Symb. mycol. Austr. I. p. 5. — 561
Peritheciis gregariis, epidermidem perforantibus, coacervatis, ele-
vatis, liberis, atro-fuscis; sporulis globosis vel globoso-ellipticis,
numerosissimis, simplicibus, enucleatis, $3-5 \approx 2,5-3$, hyalinis.

Hab. in ramulis emortuis Ailanthi glandulosæ, Kloster-
neuburg in Austria.

183. **Phoma tertia** (Cooke) Sacc. *Sphæropsis tertia* Cooke Grev. XII. 562
p. 22. — Sparsa vel subgregaria, punctiformis; peritheciis depres-
sis, minimis, atris, cuticula tectis; sporulis elongato-ellipticis, utrin-
que obtusis, hyalinis, $18 \approx 3,5-4$.

Hab. in ramis Ailanthi, in Carolina austr., regione Americæ
borealis (RAVENEL).

184. **Phoma longipes** B. et C. North Am. Fungi n. 375. — Subcorti. 563
calis gregaria; sporulis minutis, breviter oblongis; basidiis sporulâ
multoties longioribus.

Hab. in ramis corticatis Mori rubræ, in Carolina inferiore,
regione Americæ borealis.

185. **Phoma moricola** Sacc. Mich. I. p. 525. — Peritheciis gregariis, 564
cortice nidulantibus, globoso-depressis, griseis, $\frac{1}{3}$ mill. diam; spo-
rulis oblongis, curvulis, $8 \approx 2-2\frac{1}{2}$, 2-guttulatis, hyalinis (basidiis
non visis).

Hab. in ramis corticatis Mori albæ, pr. Rouen in Gallia (LE-
TENDRE). — A *Ph.* (Aposphæria) *Mori* Mont. diversissima.

186. **Phoma Mororum** Sacc. Boll. mens. di Bachicoltura, Padova 1884, 565
n. 4, p. 15. — Peritheciis gregariis, subcutaneis, vix erumpenti-
bus, globoso-depressis, $190-200 \mu.$ diam., vertice obtuso, pertusis,
mycelio effuso, fuligineo-atro, hypodermico innatis; hyphis sub-
ramosis, tortuosis, septatis, $7-9 \mu.$ crass.; sporulis oblongis, ob-
tusiusculis, hyalinis, $6-7 \approx 2,5-3$, eguttulatis; basidiis nullis vel
obsoletis.

Hab. in ramulis languidis sed nondum emortuis Mori albæ,
in Italia boreali, vere 1884 copiosa et noxia.

187. **Phoma Broussonetiæ** Sacc. Mich. II. p. 94. — Peritheciis gre- 566

gariis, tectis, oblongis, griseo-nigris; sporulis fusoides, $9 \approx 2$, 2-guttulatis, stipitellatis.

Hab. in ramis corticatis Broussonetiæ papyriferae, Rouen in Gallia (LETENDRE). — Spermogonium *Diaporthes*.

188. **Phoma cinerescens** Sacc. Mich. I. p. 521. — Peritheciis gregariis, globoso-depressis, atroolivaceis, subcutaneis; sporulis fusoides, biguttulatis, $6-8 \approx 2-2,5$, hyalinis. 567

Hab. in ramis corticatis v. demum decorticatis Fici Caricæ, in Italia et Gallia. — Spermogonium *Diaporthes cinerescens* Sacc. — An huc spectet *Phoma Ficus* Cast. in Kl. Herb. myc. n. 1870, ignotis diagnosi et speciminibus, dijudicare nequeo.

189. **Phoma juglandina** (Fuck.) Sacc. Mich. I. p. 521. — Peritheciis globoso-depressis, tectis, atrogriseis, obtusis; sporulis breve fusoides, $10-12 \approx 3-4$, 2-guttatis, hyalinis; basidiis curvulis, filiformibus, $25 \approx 1-1\frac{1}{2}$. 568

Hab. in ramis corticatis Juglandis regia, in Gallia, Germania et Italia. — Spermogonium *Diaporthes*.

190. **Phoma quercella** Sacc. et Roum. Mich. II. p. 339 (sub nom. *Ph. quercina*). — Peritheciis laxe gregariis, subcutaneo-erumpentibus, globoso-depressis, breve papillatis, nigris, contextu minute parenchymatico; sporulis fusoides, acutis, $8-9 \approx 2-2\frac{1}{4}$, biguttulatis; basidiis e strato prolifero flavicante oriundis, bacillaribus, quandoque furcatis, $20-25 \approx 3$, suffultis. 569

Hab. in ramulis tenellis quercinis, Francheville pr. Lyon in Gallia (THERRY). — Spermogonium *Diaporthes*.

191. **Phoma dryina** (B. et C.) Sacc. *Sphæropsis dryina* B. et C. North Am. F. n. 411. — Peritheciis papillæformibus, epidermide cinctis; sporulis obovatis, hyalinis, $15 \approx 6-7$. 570

Hab. in ramis quercinis, in Pennsylvania, regione Americæ borealis (MICHENER). — Perithecia, ob epidermidem tegentem, cinerescunt.

192. **Phoma endoplæa** Sacc. F. Gall. Ser. V. n. 2176. — Peritheciis in peridermio interiore immersis, subsparsis, globoso-depressis, $\frac{1}{3}$ mill. diam., poro pertusis, atris; sporulis bacillaribus, curvulis, utrinque obtusis, $18 \approx 1,5-2$, subhyalinis; basidiis filiformibus, $20-25 \approx 1$, fasciculatis, suffultis. 571

Hab. in cortice interiore ramorum Quercus, Saintes in Gallia (BRUNAUD).

193. **Phoma quercina** (Peck) Sacc. *Sphæropsis quercina* Peck 25 Rep. p. 86. — Peritheciis convexis, levibus, erumpentibus, nigro- 572

brunneis v. nigris, intus albis, epidermide albicante rupta cinctis; sporulis ellipsoideis, hyalinis, 8-9 μ . longis.

Hab. in ramis emortuis Quercus, Greenbush in Amer. bor.

194. **Phoma putator** Sacc. Mich. pag. 616. — Peritheciis subcutaneis, 573
globoso-depressis, gregariis, pertusis; sporulis oblongo-fusoideis,
9-10 \approx 2,5, biguttatis, hyalinis; basidiis bacillaribus, 8 \approx 1,5.

Hab. in ramis corticatis Populi, in Gallia, Germania et Italia. — Spermogonium *Diaporthes*.

195. **Phoma Crepini** Speg. et Roum. Mich. II. p. 338. — Peritheciis 574
erumpentibus, cæspitulosis, globoso-papillulatis, contextu parenchymatico, rufescente; sporulis oblongis, minutissimis, 4 \approx 1, 2-guttulatis, hyalinis, sæpe curvulis.

Hab. in ramis Populi fastigiatae, in Gallia et Germania. — Spermogonium, ut videtur, *Canangii populini*.

196. **Phoma populicola** Karst. Hedw. 1884, p. 62. — Peritheciis per corticem 575
erumpentibus, cæspitosis, subovoideis, atris, astomis, tandem poro pertusis, 300 μ . lat.; sporulis botuliformibus, hyalinis, 2-3 \approx 0,5.

Hab. in ramis emortuis Populi tremulae, prope Aboan in Fennia. — «Peritheciis cæspitulosis, ad *Dothiorellam* vergit».

197. **Phoma Salicis** Sacc. *Sphaeria Salicis* spermogon. Fuck. Symb. 576
p. 115. — Peritheciis tectis, sparsis, majusculis, atris, unilocularibus, obtusis, minute papillatis perforatisque; sporulis oblongo-ovatis, continuis, hyalinis, 3-guttatis, 8 \approx 4.

Hab. in ramis corticatis siccis Sacilis fragilis, in Rhénogovia.

198. **Phoma acervalis** Sacc. *Gibberellæ acervalis* Spermog. Fuck. 577
Symb. p. 166. — Peritheciis cæspitosis, minutis, fuscis; sporulis minutissimis, cylindræis, oscillantibus.

Hab. in ramis corticatis Salicis capreae, in Rhénogovia.

199. **Phoma salicina** West. Crypt. Class. Append. (verisimiliter), Sacc. 578
et Roum. Rel. Lib. V. n. 63. — Peritheciis gregariis, subcutaneis, globoso-depressis; sporulis oblongis, 6-7 \approx 2-2,5, hyalinis; basidiis fasciculatis, æquilongis.

Hab. in ramis corticatis Salicis, in Gallia et Germania. — Spermogonium *Diaporthes* cujusdam. — Speciei Westendorpii diagnosim reperire non potui.

200. **Phoma palina** (Fr.) Sacc. *Sphaeria palina* Fr. S. M. II. p. 494. 579
Cfr. Syll. II, p. 422, Curr. Simpl. Sphær. p. 328. — Sparsa, erumpens, sublibera, conica, rugosa, nigricans, poro pertusa, truncata; sporulis fusoideis, hyalinis, binucleatis, 7-8 μ . long.; basidiis longis.

Hab. in ramis emortuis Salicis, in Suecia et Gallia.

201. **Phoma endoleuca** Sacc. Mich. I p. 523. — Peritheciis cortice 580
omnino nidulantibus, globulosis, $\frac{1}{5}$ mill. diam., vix papillatis, nucleo albo faretis; sporulis botuliformibus, $6 \approx 1\frac{1}{2}-2$, leniter curvis, 2-guttulatis, hyalinis; basidiis subæquilongis, subsimplicibus, fultis.

Hab. in ramis Alni glutinosæ cum *Fenestella*, in Gallia. —

- ***Ph. ligustrina** Sacc. l. c. A typo differt peritheciis majoribus, $\frac{1}{4}$ mill. diam.; sporulis crassioribus, $6-7 \approx 2\frac{1}{2}$, basidiis subnullis fultis. In ramulis Ligustri vulgaris, in Gallia. — **Ph. rhodophila** Sacc. Mich. II. pag. 91. (*Ph. Rosarum*). Peritheciis tectis, dein erumpentibus, intus albidis, diu faretis; sporulis cylindræis, $6 \approx 2$, utrinque obtusiusculis, 2-3-guttulatis, hyalinis, basidiis, 6-10 long. suffultis. In ramulis Rosæ caninæ, in Gallia. *Phoma Rosarum* Mont. sporulis duplo longioribus instructa est.

202. **Phoma mutica** (B. et Br.) Sacc. *Sphæroopsis mutica* B. et Br. 581
N. H. n. 422. — Peritheciis erumpentibus, globosis, obtusis, plus minusve cæspitosis, nigris, lucentibus; sporulis perexiguis, ellipsoideis v. obovatis, hyalinis.

Hab. in ramulis Alni glutinosæ, Batheaston in Britannia. — Habitus *Diplodia*.

203. **Phoma Phillipsiana** Sacc. et Roum. Reliq. Lib. Ser. V. n. 68. 582
— Peritheciis laxè gregariis, mox emergentibus, cortice innatis, globoso-depressis, atris, apice rotundatis, nigris, $\frac{1}{2}$ mill. diam., subcoriaceis; sporulis globoso-ellipsoideis, $4.83-3 \approx 5$, 1-nucleatis, hyalinis; basidiis.....

Hab. in cortice ramorum Alni, in Germania et Gallia.

204. **Phoma alnea** (Nits.) Sacc. Mich. II. p. 97. — Peritheciis gregariis, subcutaneis, depressis, atro-griseis; sporulis $7-8 \approx 2\frac{1}{2}-3$; basidiis $20 \approx 1$, filiformi-arcuatis.

Hab. in ramis alneis, in Germania et Italia. — Spermogonium *Diaporthes alneæ* Fuck. (Sylloge I. 677).

205. **Phoma corticicola** Preuss Hoyersw. n. 27. — Peritheciis in 584
cortice insidentibus, erumpentibus, nigris, hemisphæricis, tenuissimis, cellulatis, punctiformibus; sporulis continuis, muco insidentibus, oblongis, albis; nucleo ovato.

Hab. in ramis Betulæ dejectis, Hoyerswerda.

206. **Phoma oppilata** (Fr.) Sacc. *Sphæria oppilata* Fr. S. M. II. p. 585
493. Curr. Simpl. Sphær. p. 328. — Peritheciis sparsis, erumpentibus, globosis, levibus, subastomis, nigris, ostiolo subrimoso; sporulis fusoides, hyalinis, bi-nucleatis, $7-10 \mu$. longis.

Hab. in virgultis Betulæ, in Suecia. — Sec. Fr. in Curr. Suppl.

Obs. p. 258 in statu typico est species ascigera.

207. **Phoma oblonga** Des. 22. Not. 6. — Peritheciis oblongis, membranaceis, sparsim-approximatis, epidermide demum longitudinaliter fissa obtectis, poro pertusis; nucleo cinereo; cirris albis validis; sporulis rectis, ovato-oblongis, hyalinis, 6-7 \approx 3 μ .; guttulis 2, distincte globosis, semi-opacis.

Hab. ad ramos siccos Ulmi, in Gallia. — Spermogonium *Diaporthes Eris* videtur. — Ab hac specie forte non differt *Phoma eres* Sacc. Mich. I. p. 521. Syll. I. p. 631: peritheciis $\frac{1}{4}$ mill. diam.; sporulis-fusoideis, 10 \approx 3, biguttatis; basidiis filiformibus, 15-18 \approx 2. In ramis Ulmi campestris, in Gallia et Italia.

208. **Phoma planiuscula** Sacc. *Ph. depressa* B. et Br. Ann. N. H. n. 397 nec Lév. — Peritheciis spuriis supra valde depressis, stromate crassiusculo olivaceo exceptis pustulasque sparsas pertusas efficientibus; sporulis minutis oblongo-ellipsoideis, utrinque acutiusculis, biguttulatis, hyalinis.

Hab. in ramis Ulmi et Robiniæ Pseudacaciæ, in Britannia.

209. **Phoma Malbranchei** Sacc. Mich. I. p. 521. — Peritheciis cortice nidulantibus, globosis, $\frac{1}{2}$ mill. diam.; nucleo nigricante; ostiolo vix manifesto; sporulis, ovato-oblongis, 14-15 \approx 5, 2-guttulatis, hyalinis; basidiis subæquilongis, filiformibus.

Hab. in ramis corticatis Ulmi campestris, Saintes in Gallia (BRUNAUD). — Status spermogonicus *Diap. Malbranchei* Sacc. vel forte *D. Saccardianæ* J. Kunze.

210. **Phoma sordida** Sacc. Cfr. Syll. I. p. 632. — Peritheciis globoso-depressis, subcutaneo-erumpentibus, subgregariis; sporulis oblongo-fusoideis, 8-10 \approx 2-25, biguttulatis, hyalinis; basidiis hamatis, filiformibus, 27 \approx 1.

Hab. in ramis corticatis Carpini Betuli, in Germania et Italia. — Spermogonium *Diaporthes sordidæ*.

211. **Phoma revellens** Sacc. Cfr. Syll. I. p. 673. — Peritheciis globoso-depressis, subcutaneo-erumpentibus, gregariis; sporulis oblongis, biguttulatis, 6-7 \approx 3, hyalinis, stipitellatis.

Hab. in ramis putrescentibus Coryli Avellanæ et C. Lambertianæ, in Germania et Italia. — Spermogonium *Diaporthes revellentis*.

212. **Phoma corylina** (Thüm.) Sacc. *Sphæropsis corylina* Thüm. in Hedwigia. — Peritheciis dense gregariis sed semper solitariis et

numquam confluentibus, primo epidermide tectis, demum perforantibus et prominulis, plano-hemisphæricis, opaco-nigris; basidiis fasciculatim dispositis, brevibus, tenuibus, flexuosis, hyalinis; sporulis ellipsoideis, utrinque rotundatis, simplicibus, episporio subcrasso, hyalinis, 13-18 \approx 8-10.

Hab. ad ramos aridos Coryli Avellanæ, in Gallia et Germania (LIBERT).

B) Follicolæ.

213. **Phoma parca** (B. et Br.) Sacc. *Sphæropsis parca* B. et Br. 592
Ann. N. II. n. 420. — Peritheciis minutis, arescendo collapsis; sporulis oblongis, subcylindræis, utrinque obtusis, sed una extremitate attenuatis, diametro transverso 4-5-plo longioribus.

Hab. in foliis Abietis excelsæ, in Britannia.

214. **Phoma acicola** (Lév.) Sacc. Mich. II. p. 272. *Sphæropsis aci-* 593
cola Lév. in Ann. Scienc. nat. Bot. (1848) p. 256. — Peritheciis erumpentibus, globosis, dein rugulosis, epidermide cinctis, intus albidis, majusculis; sporulis ovato-oblongis, 7 \approx 4, hyalinis.

Hab. in foliis deciduis Pini silvestris, in Gallia, Italia, Germania.

215. **Phoma acuum** C. et E. in Grevillea. — Sparsa; peritheciis mi- 594
nutis, atris, prominulis, primum tectis; sporulis linearibus, rectis vel curvulis, utrinque obtusis, hyalinis, 10 μ . longis.

Hab. in foliis Pinorum, New Jersey in Amer. bor.

216. **Phoma acuaria** (Cooke) Sacc. *Sphæropsis acuaria* Cooke, *Sphæ-* 595
ria? Lib. in Herb. — Erumpens, subglobosa, atra; ostiolo perforato; nucleo albo fluxili; sporulis cylindricis, utrinque obtusis, hyalinis, 15 \approx 4.

Hab. in foliis Pinorum, in Rhenogovia.

217. **Phoma erythrella** Thüm. Symb. Myc. Austr. III. n. 61. — Pe- 596
ritheciis subgregariis, epiphyllis v. rarissime etiam hypophyllis, subconico-hemisphæricis, emersis, sanguinolentis, anguste rubrocinctis, majusculis; nucleo nigro, globoso; basidiis brevibus, hyalinis, subrectis; sporulis ellipsoideo-globosis v. ovoideis, homogeneis, dilute griseolis, continuis, 4 \approx 2, 5.

Hab. in foliis Pini austriacæ emortuis adhuc pendulis copiose, in Austria (GREGUROWICZ). — « An *Zythia* » ?

218. **Phoma pinicola** (Zopf) Sacc. *Pycnis pinicola* Zopf Hedw. 1881. 597
p. 146. — Peritheciis oblongis, gregariis v. sparsis, vertice varie

fissis, pachydermaticis, erumpentibus; sporulis sessilibus, anguste obovato-ellipsoideis v. oblongis, 8-12 \approx 3-5, biguttatis, hyalinis.

Hab. in foliis semi virentibus Pini silvestris et P. Pinastri ex ramis vivis avulsis dejectisque, in Germania.

219. **Phoma pinastrella** Sacc. *Ph. Pinastri* Thüm. Beitr. Pilz. Pin. 598 austr. p. 34, nec Lév. — Peritheciis gregariis sed semper simplicibus et nunquam confluentibus, semigloboso-subconoideis, prominentibus vel semiemersis, aterrimis, cuticula disrumpente regulariter cinctis; sporulis ellipsoideis, rectis vel interdum leniter arcuatis, utrinque subattenuatis et anguste rotundatis, raro homogeneis, plerumque biguttulatis, guttulis irregularibus magnis, hyalinis, 4-5,5 \approx 2-2,5 numerosissimis.

Hab. in foliis emortuis Pini Pinastri, P. silvestris et P. Cembræ, in Gallia, Austria et Sibiria.

220. **Phoma Juniperi** (Desm.) Sacc. *Sphæropsis Juniperi* Desm. 17 599 Not. pag. 4. — Amphigena sed sæpius hypophylla, tuberculosa, atra, in series erumpens; peritheciis 2-3 minutissimis, stromate nigro immersis; nucleo albo; sporulis subglobosis, hyalinis, 3-4 μ . diam.

Hab. in foliis emortuis Juniperi communis, in Gallia.

221. **Phoma pithyophila** (Corda) Sacc. *Sphæronæma pithyophilum* 600 Corda Sc. IV. 40. f. 116. — Peritheciis immersis, subconfluentibus, dein erumpentibus, atro-fuscis; nucleo luteo gelatinoso; sporulis oblongis, utrinque obtusis.

Hab. in foliis putridis Pini silvestris, prope Pragam in Bohemia.

222. **Phoma Pini** (Desm.) Sacc. *Sphæropsis Pini* Desm. Ann. Sc. not. 601 1848, p. 347. — Epiphylla, seriata, nigra; peritheciis erumpentibus, dein superficialibus, minutissimis, globosis vel globoso-depressis, 50 μ . diam.; globulo minuto albo; sporulis numerosis, 10 μ . long., ovoideis, hyalinis.

Hab. in foliis deciduis Pini Abietis, in Gallia.

223. **Phoma Piceæ** (Fiedl.) Sacc. *Sphæronæma Piceæ* Fiedl. Bot. 602 Zeit. 1858, p. 82. — Peritheciis innatis, minutis, depresso-rotundis, rugulosis, atris, nitidis, subconfluentibus; nucleo albido, lutescente; sporulis oblongis, subpellucidis.

Hab. in foliorum pagina infer. Abietis, pr. Dœmitz in Germania. — *Ph. pithyophilæ* (Corda) peraffinis.

224. **Phoma Strobi** (B. et Br.) Sacc. *Sphæropsis Strobi* B. et Br. 603 Ann. N. H. n. 421. — Peritheciis minutis, collabascentibus; spo-

rulis lineari-oblongis, crassitudine sua 6-7-plo longioribus, utrinque obtusiusculis.

Hab. in foliis, Pini Strobi, in Britannia. — Affinis *Phomæ parvæ*, sed perithecia minus collapsa, sporulæque majores obtusiores.

225. **Phoma geniculata** (B. et Br.) Sacc. *Sphæropsis geniculata* B. 604 et Br. Ann. N. H. n. 421. — Peritheciis globosis; ostiolo conico prominulo; sporulis cylindræis, curvis, utrinque rotundatis; basidiis angulo obtuso oblique affixis, subinde biguttulatis, diametro suo 4-5-plo longioribus.

Hab. in foliis Pini Strobi, in Britannia.

226. **Phoma thujana** Thüm. Symb. myc. Austr. III. n. 62. — Peri- 605 theciis minutis, epiphyllis, interdum etiam amphigenis, gregariis, punctiformibus, conoideis, emersis, atris; sporulis in basidiis achrois brevibus acrogenis, ovoideis, utrinque rotundatis, enucleatis, continuis, hyalinis, minutissimis, 3,5 = 1,5-2.

Hab. ad folia emortua Thujæ orientalis, Pyrawarth in Austria inferiore.

227. **Phoma Taxi** (Berk.) Sacc. *Sphæropsis Taxi* Berk. Outl. p. 316. 606 — Peritheciis gregariis, innatis, epidermide cinerascete velatis, nigris; ostiolo convexo, epidermidem tandem perforante; sporulis obovato-oblongis, stipitatis, hyalinis, 20-22 = 8-9.

Hab. in foliis emortuis Taxi baccatæ, in Britannia, Gallia, Italia, Austria. — Probabiliter status immaturus *Diplodix Taxi* De Not.

228. **Phoma hystereella** Sacc. Mich. II. p. 275 — Peritheciis subcu- 607 taneis, hinc inde paucis, lineari-aggregatis epidermideque rimose (hysteriiformiter) fissa cinctis, globulosis, papillulatis, nigris, $\frac{1}{3}$ mill. diam.; sporulis obovatis, 10-11 = 7, basi leniter acutatis, pluriguttulatis, hyalinis, basidiis teretibus dimidio brevioribus suffultis.

Hab. in foliis emortuis Taxi baccatæ, in horto Patavino, sociâ *Physalospora gregaria* (Bizzozero).

229. **Phoma Wistarix** Thüm. Contr. Mic. Litor. n. 172. Tab. I. f. 3. 608 — Peritheciis epiphyllis, prominulis, subinnatis, mediis, gregariis, subglobosis, ostiolatis, nigris, in macula exarida, flavescenti, irregulari, fusco-purpureo marginata; sporulis subclavatis vel ellipsoideis, utrinque rotundatis, binucleatis, hyalinis vel achrois 6-8 = 3.

Hab. ad folia viva Wistarix sinensis, Gorizia.

230. **Phoma Hardenbergix** Penz. et Sacc. F. Mortol. n. 19, Tav. IV. 609 fig. 7. — Peritheciis dense congregatis, minimis punctiformibus,

in foliorum macula arida insidentibus, tenuibus, brunneis, 150-170 μ . diam.; sporulis numerosissimis, ellipticis, utrinque acutiusculis, hyalinis, biguttulatis, 8-10 \approx 3,3-3,5; basidiis dense constipatis, simplicibus, hyalinis, 10-12 \approx 2-2,5.

Hab. in foliis vivis Hardenbergiæ ovatæ, quæ enecat, Mortola in Italia boreali.

231. **Phoma Roumeguerii** Sacc. Mich. II. p. 89. — Peritheciis in par- 610
tibus foliorum exsiccatis gregariis, depresso-globosis, $\frac{1}{6}$ mill. d.,
contextu parenchymatico, ochraceo-fusco; sporulis oblongis, 7 \approx 2,
2-guttulatis, hyalinis, basidiis bacillaribus, 15-16 \approx 2, suffultis.

Hab. in foliis Caraganæ arborescentis nondum omnino
emortuis, Perpignan in Gallia (ROUMEGUÈRE). — Ad *Phyllostictam*
nutat.

232. **Phoma petiolorum** Desm. Ann. Sc. nat. 1847, p. 16. — Peri- 611
theciis sparsis, globosis v. ovoideis, nigris, epidermide tectis, pa-
pillatis, denique poro pertusis; nucleo albido; sporulis minutis ovoi-
deo-oblongis, 2-guttulatis, 7-8 \approx 3; basidiis filiformibus, 20-23 \approx 1.

Hab. in petiolis Robiniæ Pseudacaciæ in Gallia et Bri-
tannia.

233. **Phoma Psoraleæ** Cooke in Grevillea. — Peritheciis atris, pun- 612
ctiformibus, in maculis angulatis congestis; sporulis minimis, 5 \approx 2.

Hab. in foliis Psoraleæ, Aiken in Carolina, regione Amer.
bor. — *Sphaerellæ* cujusdam videtur spermogonium.

234. **Phoma fusca** Lév. Ann. Sc. Nat. 1846, p. 281. — Peritheciis 613
epiphyllis, confertis, globosis, fuscis, intus sordidis; ostiolis nullis;
sporulis minutis, ovato-elongatis, continuis, pellucidis.

Hab. in foliis Leguminosæ exoticæ (herb. Mus. Par.).

235. **Phoma maculans** (Lév.) Sacc. *Sphaeropsis maculans* Lév. Ann. 614
Sc. Nat. 1846, p. 297. — Peritheciis amphigenis, stipatis, globosis,
adnatis, stromate nigro, limitato, maculæformi insidentibus; ostiolis
depressis rugosis; sporulis ovato-oblongis, obtusis, hyalinis.

Hab. ad folia Leguminosæ (CUMMING in herb. Mus. Par.).

236. **Phoma stigmea** Dur. et Mont. Syll. n. 981, in Explor. Scient. 615
Alger. Botanique. I. p. 606. — Amphigena; peritheciis fusco-atris,
globosis, innatis, primum tectis, poro pertusis, tandem circumscisso-
deciduis; basidiis brevissimis; sporulis oblongis, hyalinis.

Hab. in foliis Citri Aurantii, Bouzarèah in Algeria.

237. **Phoma eustaga** Penz. et Sacc. F. Agrumic. II. Contr. p. 5. — 616
Peritheciis gregariis, hypodermicis, majusculis, 150-170 μ . diam.,
sphæroideis, contextu parenchymatico, nigerrimis, duris; ostiolo

prominente; sporulis breviter ellipticis, utrinque rotundatis, hyalinis, 10-13 = 6-8, guttulam unicam, refrangentissimam, in centro foventibus; basidiis obsoletis.

Hab. in maculis pallescentibus foliorum languidorum Citri Limonum, in frigidario horti botanici Patavini.

238. **Phoma rigida** Penz. in Mich. II. p. 430. — Maculis nullis; peritheciis hypophyllis, laxe gregariis, aterrimis, prorumpentibus, vix depressis, 100-140 μ . diam.; sporulis cylindræis, bacillaribus, rectis, utrinque rotundatis, continuis, 10-11 = 2-2,5, hyalinis, mucosyalino insidentibus; basidiis obsoletis vel nullis.

Hab. in foliis languidis vel delapsis Citri Limonum, sociâ *Sphærella sicula* et *Septoria sicula*, Carini in Sicilia (V. BELTRANI).

239. **Phoma Mantegazziana** Penz. Mich. II. pag. 429. — Peritheciis gregariis, hypophyllis, majusculis, 280-320 μ . diam., sphæroideo-depressis, epidermide velatis, demum erumpentibus; ostiolo regulari, 15-18 μ . diam.; contextu parenchymatico; sporulis oblongis, utrinque rotundatis, hyalinis, protoplasmate granuloso faretis, 16-20 = 5-7; basidiis cylindricis vel subclavatis, continuis, simplicibus, 14-18 = 3-5.

Hab. in foliis languidis Citri medicæ, S. Terenzo, Spezia in Ital. bor. ubi 1878 leg. P. MANTEGAZZA.

240. **Phoma familiaris** Sacc. *Phoma domestica* Speg. Fung. Arg. Pug. IV. n. 96 nec Sacc. — Peritheciis dense sparsis profundiuscule in parenchymate nidulantibus, epidermidem pustulatim elevato-laceratam efficientibus, minutis, 100-120 μ . diam., atris, subglobosis, ostiolo impresso pertusis; sporulis ellipticis, utrinque acutis ac uniguttulatis, 6-8 = 3-4, hyalinis.

Hab. in foliis dejectis emortuis Hoyæ carnosæ domi cultæ, Buenos Aires in Argentina.

241. **Phoma Bolleana** Thüm. Contr. F. Litor. n. 168. Tab. I. fig. 18. — Peritheciis dense gregariis, prominulis, mediis, globosis, atris, ostiolatis, epiphyllis, postremo etiam hypophyllis in maculis magnis, exaridis, irregularibus, demum dilaceratis, candidis, dilute fusco-marginatis; sporulis minutissimis, ovoideo-globosis, 1,5-2 = 1-1,6, hyalinis.

Hab. ad folia viva Hoyæ carnosæ epidemice, Gorizia in calidariis. — « An *Phyllosticta*? ».

242. **Phoma fœdata** (Lév.) Sacc. *Sphæropsis fœdata* Lév. Ann. Sc. Nat. p. 63. — Sparsa vel gregaria; peritheciis globosis, glabris,

nigris, epidermide lacerata, nigro-maculata obtectis; ostioliis exsertis conicis pertusis; sporulis ellipsoideis, hyalinis.

Hab. in foliis Hoyæ Wallichianæ, in India orientali.

243. **Phoma millepunctata** Penz. et Sacc. F. Mortol. n. 20. Tav. IV, 622 fig. 8. — Peritheciis hypodermicis, minutissimis, gregiformibus, depressis; ostiolo amplo, haud papillato, 160-170 μ . diam.; sporulis majusculis, 13-16 \approx 6-7,5, oblonge ellipticis, utrinque obtusis, hyalinis, eguttulatis; basidiis brevibus, simplicibus, hyalinis, dein evanidis, 6-8 \approx 3-4.

Hab. in petiolis Araliæ pulchræ, Mortola in Ital. bor.

244. **Phoma leucostigma** (DC.) Sacc. Mich. I. p. 259. Ann. Sc. nat. 623 1846, p. 296 *Sphæropsis leucostigma* DC. Fl. fr. VI. p. 144. — Peritheciis sparsis, innatis, convexis, prominulis, levibus, nigris, ostioliis pertusis albis; sporulis oblongis, 10-12 \approx 3-4, 2-guttulatis, hyalinis, basidiis sursum attenuatis, subæquilongis suffultis.

Hab. in foliis dejectis Hederæ Helicis, Evonymi japonici, Buxi, Quercus, in Gallia, Italia, Germania.

245. **Phoma Candollei** (Berk. et Br.) Sacc. *Sphæropsis Candollei* 624 Berk. et Br. Kickx. I. 402. *Sphæria Buxi* DC. — Peritheciis gregariis, amphigenis, majusculis, innato-erumpentibus; sporulis oblongis, magnis, 35 \approx 12, utrinque obtusiusculis, nubiosis, hyalinis, basidiis brevissimis, hyalinis suffultis.

Hab. in foliis dejectis Buxi sempervirentis, in Gallia, Belgio, Italia, Britannia et in Amer. bor. — Basidiis brevissimis, sporulis numquam medio contractis, a *Diplodiæ* pusionibus mox dignoscitur.

246. **Phoma Mirbelii** (Fr.) Sacc. Mich. II. p. 90. *Sphæria Mirbelii* 625 Fr. Linn. 1830, p. 548. *Sphæropsis Mirbelii* Lév. Ann. Scienc. nat. 1846, p. 296. — Peritheciis tectis, papuloso-prominulis, erumpentibus, initio subastomis, dein rimose ruptis, atro-fulvis; sporulis obovoideis, basi sub-apiculatis, 15-18 \approx 8-9, nubiosis, hyalinis, basidiis brevissimis, papilliformibus suffultis.

Hab. in foliis exsiccatis Buxi sempervirentis, in Gallia et Italia. — Teste Fuckel, huc spectat *Sphæria delitescens* Wallr. et *Phacidium Buxi* Lasch.

247. **Phoma delitescens** (Wallr.) Sacc. *Sphæria delitescens* Wallr. 626 Fl. crypt. n. 3752. — Peritheciis exiguis, tenerrimis, subrotundis, primum hypophlæode-latitantibus dilute fuscescentibus, dein nigrescentibus, summam epidermidis pelliculam varie scissam elevantibus illamque translucens, demum vertice aperto hiantibus.

- Hab.* ad foliorum *Buxi sempervirentis* utramque faciem et ramos in Thuringia. — «An diversa a *Ph. Mirbelii*?».
248. **Phoma phacidioides** Sacc. Mich. II. p. 274. — Peritheciis amphigenis, plerumque vero hypophyllis, globoso-lenticularibus, $\frac{1}{3}$ mill. diam., innatis, dein epidermide laciniatim fissa erumpentibus; sporulis ellipsoideis, inæquilateralibus, $10 \approx 6$, granulosis, hyalinis. 627
- Hab.* in foliis emortuis *Buxi sempervirentis*, in Italia boreali. — Præcipue sporulis tertia parte minoribus a *Ph. Mirbelii* distinguenda.
249. **Phoma ilicella** Sacc. et Penz. Mich. II. pag. 618. — Peritheciis hypophyllis, gregariis, epidermide velatis, globoso-depressis, $\frac{1}{5}$ mill. diam., late pertusis, contextu parenchymatico ochraceo-fusco; sporulis oblongis, utrinque rotundatis, 2-4-guttulatis v. nubiosis, $20-26 \approx 6-7$, hyalinis; basidiis subnullis. 628
- Hab.* in foliis emortuis *Ilicis Aquifolii*, Le Sapey (Isère) in Gallia (THERRY). — Perithecia subinde imperfecta et tunc ad *Gleosporium* vergentia.
250. **Phoma ilicicola** (C. et E.) Sacc. *Sphæropsis ilicicola* C. et E. 629
in Grevillea, t. 96, f. 28. — Peritheciis gregariis, atris, nitidulis, erumpentibus, epidermide cinctis; sporulis ovoideis, hyalinis, $10-12 \approx 6-7$.
- Hab.* in foliis *Ilicis*, amphigena, New Jersey in America boreali (ELLIS).
251. **Phoma Ilicis** Desm. Exs. n. 1290, Kickx Fl. I. p. 440. — Peritheciis punctiformibus, velatis, nigris, globulosis, prominulis, poro pertusis; sporulis cylindraceutis, utrinque rotundatis, $12-15 \approx 3$, hyalinis, utrinque sæpe 1-guttatis. 630
- Hab.* in foliis emortuis *Ilicis Aquifolii* in Gallia, Belgio, Italia. — ***Ilicis opacæ**: sporulis $18 \approx 2\frac{1}{2}$, in Carolina (RAVENEL). — ***Magnoliæ**: sporulis cylindraceutis, utrinque rotundatis, $15-18 \approx 2\frac{1}{2}-3$, 2-guttulatis, hyalinis, basidiis brevissimis suffultis. In foliis languidis *Magnoliæ grandifloræ*, in Gallia. — ***Evonymi japonici**: sporulis, $12-14 \approx 2$, 2-guttatis, hyalinis. In foliis ejusdem, Treviso, Gorizia in Italia boreali.
252. **Phoma phacidiella** Sacc. *Sphæropsis phacidioides* C. et Ell. Grevill. t. 96, f. 29. — Peritheciis majusculis erumpentibus, subglobosis, atris, epidermide radiatim fissa cinctis; sporulis cylindraceutis, obtusis, hyalinis, $30-35 \approx 4$. 631
- Hab.* in foliis *Ilicis Aquifolii*, New Jersey in America boreali — *Phomæ cylindrosporæ* affinis.

253. **Phoma pumila** (Mong.) Sacc. *Sphæropsis pumila* Mong. in Lév. 632
Ann. Sc. Nat. p. 256. — Peritheciis punctiformibus, epiphyllis, gregariis, globosis, basi applanatis, nigris, intus cinereis, epidermide rupta cinctis; ostioliis vix distinctis; sporulis elongatis sub-linearibus continuis, utrinque obtusis, minutis.

Hab. ad folia Ilicis Aquifolii, in Vogesis.

254. **Phoma leucospila** Pass. in Hedw. 1878, p. 172. — Peritheciis 633
minutis depressis, atris, in macula exigua albicante epiphyllis; sporulis parvulis, oblongo-ellipsoideis, biguttulatis, hyalinis.

Hab. ad folia mox decidua Sorbi hybridæ Hort. in Italia boreali.

255. **Phoma Sorbi** (Lasch) Sacc. *Septoria Sorbi* Lasch sec. Cooke 634
Handb. n. 1330. — Epiphylla; peritheciis minutis, aggregatis, semi-innatis, subnigris; sporulis ellipticis, utrinque leniter acutis et fere amygdaliformibus.

Hab. in foliis Sorbi Aucupariæ, in Britannia.

256. **Phoma Laurocerasi** Lév. Ann. Sc. nat. 1846, p. 296. — Peri- 635
theeciis amphigenis, sparsis, innatis, globosis, nigris, intus albis, epidermide cinctis; ostioliis nullis vel papillatis; sporulis ellipticis, obtusis, hyalinis, stipitatis.

Hab. ad folia Pruni Lauro-Cerasi, in Gallia.

257. **Phoma epiphylla** (Lév.) Sacc. *Sphæropsis epiphylla* Lév. Ann. 636
Sc. nat. 1846, p. 296. *Sphæria Laurocerasi* Desm. Exs. fasc. 24. — Peritheciis globulosis, nigris, nitidis, sparsis, minutis, vix $\frac{1}{4}$ mill. diam., tectis, prominentibus, dein collabescentibus, poro latiusculo et inæquali pertusis; nucleo albo-griseo; sporulis cylindraceis, rectis, obtusis, 4-guttulatis, hyalinis («8-10 \approx 2, biguttatis »).

Hab. in foliis Pruni Lauro-cerasi, P. lusitanicæ, Rhamni Alaterni, in Gallia et Italia.

258. **Phoma prunicola** Schw. Syn. Am. bor. n. 2169. — Entophylla; 637
epidermide cinerescente formante maculas latas irregulariter effusas in folio, demum rupta, perithecia in conspectum veniunt ovata, rotunda aut quadrato-diformia, nigro-fusca, ore rotundo primum pertusa, demum latius aperta, et forma oris irregulari; stromate interno manifesto grumoso-fuscescente.

Hab. rarius in foliis dejectis, Pruni virginianæ aut serotinæ, Bethlehem in America boreali.

259. **Phoma piceata** Sacc. *Ph. picea* B. et Br. Ann. N. H. p. 399, 638
nec Pers. — Peritheciis hypophyllis, spuriiis, piceo-brunneis, con-

vexis, supra epidermidi connexis; sporulis hyalinis, oblongo-ellipsoideis, biguttulatis.

Hab. in pag. inf. foliorum Rosæ, in Britannia.

260. **Phoma vixvisibilis** Thüm. in Flora 1878, p. 179. — Peritheciis 639
minutissimis, hypophyllis, dense gregariis, occultis, subglobosis, vix prominulis, atris; sporulis minutis, hyalinis, ellipsoideis, utrinque rotundatis, simplicibus, enucleatis; sterigmatibus minimis, 2,5 ≈ 1,5.

Hab. ad folia arida Quercus stellatæ, Aiken in Carolina austr. (H. W. RAVENEL).

261. **Phoma Quercus** (Lamb.) Sacc. *Sphæropsis Quercus* Lamb. Myc. 640
Belg. III. p. 60. — Peritheciis subcutaneis, innatis, nigro-griseis, vertice poro rotundo distincto pertusis, hinc inde aggregatis; sporulis ovoideis, hyalinis, eguttulatis.

Hab. in pag. sup. foliorum siccorum Quercus, prope Liege in Belgio.

262. **Phoma Castagnei** (Mont.) Sacc. *Sphæropsis Castagnei* Mont. 641
Syll. n. 961 et Cent. VI. n. 38, in Ann., 3, XI. p. 50. — Epi-raro hypophylla; peritheciis globosis, minutis, atris, nitidis, tectis, in macula marginali irregulari cinereo-lilacina fusco-limitata sparsis, prominulis; sporulis ovoideis, continuis.

Hab. in foliis Quercus Ilicis, Montaud-lez-Miramas (CASTAGNE).

263. **Phoma dendritica** Thüm. in Flora 1878, p. 179. — Peritheciis 642
epiphyllis, numerosissimis, dense gregariis; maculas magnas, fuscas, plus minusve orbiculatas, sæpe confluentes, dendriticas, stramineo-marginatas formantibus hemisphæricis, prominulis, nitidis, fuscis; sporulis cylindræis, rectis, simplicibus, enucleatis, utrinque subobtusatis, hyalinis, 4 ≈ 1,5.

Hab. ad folia viva languidave Quercus nigræ, Aiken in Carolina austr. (H. W. RAVENEL).

264. **Phoma innumerabilis** Thüm. Myc. univ. n. 1079. — Peritheciis 643
hypophyllis, numerosissimis, dense gregariis, maculas maximas, sæpe confluentes, griseo-fuscas formantibus, globosis, minutis, immersis, granulosis, fusco-atris; sporulis cylindricis, utrinque subrotundatis, plerumque enucleatis, hyalinis, 2-3 ≈ 1,5.

Hab. in foliis emortuis Quercus stellatæ, Aiken in Carolina (RAVENEL).

265. **Phoma nervisequa** (Cooke) Sacc. *Sphæropsis nervisequa* Cooke 644

in Grevillea. — Peritheciis atris, hysteriiformibus, sparsis; sporulis ellipticis, hyalinis, 10-12 = 5.

Hab. in nervis foliorum *Quercus Catesbeyi*, Aiken in Carolina.

266. **Phoma ocellata** (Lév.) Sacc. *Sphæropsis ocellata* Lév. Ann. Sc. Nat. 1846, p. 297. — Peritheciis hypophyllis, sparsis, innatis, epidermide tectis; ostioliis prominulis pertusis, albis; sporulis oblongo-linearibus, obtusis, hyalinis.

Hab. ad folia *Quercuum* et *Mespili nitidæ*, pr. Parisios.

267. **Phoma discosiæformis** Cooke et Harkn. in Grevillea n. 64. — Epiphylla, subgregaria; peritheciis parvulis, superne nudis, convexo-applanatis, nitidis, atrofuscis; sporulis minutis, ovalibus, continuis, hyalinis, 5 = 2,5.

Hab. in foliis *Quercus aquifoliæ*, in California.

268. **Phoma tularostoma** (Ehrenb.) Fr. S. M. II. p. 548. *Næmaspora tularostoma* Ehr. F. Cham. n. 14, t. 18, f. 7. — Hypophylla; ostiolo tumido fusco, primo centro candido clauso, demum aperto, margine interno candido; sporulis candidis sine lege rejectis.

Hab. in foliis *Myrtorum* et *Lardizabalarum*, in Chili. — In statu maturo sicca epidermis, tamquam tympani membrana extensa, rumpitur locumque cedit foramini rotundo aut oblongo, quod extus fuscum, intus candidum; tumidum vero servat marginem; dissecto a vertice perithecio, apparent sporulæ, parietibus adglutinatæ, quas interdum tamquam in membranulam confluxas vidit Ehrenberg.

269. **Phoma mucipara** Penz. et Sacc. F. Mortol. n. 21. Tav. IV. fig. 9. — Peritheciis in foliorum superficie sparsis, subsuperficialibus, hemisphæricis, duris, carbonaceis, aterrimis; ostiolo manifestissimo, sed haud prominente; contextu parenchymatico; nucleo albo; sporulis cylindræis, utrinque rotundatis, rectis vel paullulum curvatis, eguttulatis, plasmate granuloso, incolore farctis, mucosino ex basidiorum dissolutione orto obvolutis, 18-22 = 3,5-4,5.

Hab. in foliis delapsis *Eucalypti* sp. Mortola in Ital. bor.

270. **Phoma eucalyptidea** Thüm. Contr. Myc. Lus. n. 563. — Peritheciis hypophyllis, sparsis, conico-elevatis, primo tectis, demum prominulo-erumpentibus, nigris, minutis; sporulis ellipsoideis, utrinque rotundato-acutatis, hyalinis, binucleatis, 5-9 = 3,5-5, basidiis brevibus, flexuosis, hyalinis fultis.

Hab. ad folia viva vel languescencia *Eucalypti Globuli*, Choupal pr. Coimbra in Lusitania (MOLLER).

271. **Phoma Molleriana** (Thüm.) Sacc. *Sphæroopsis Molleriana* Thüm. 650
 Contr. Myc. Lus. n. 323. — Peritheciis amphigenis, numerosissimis, magnis, dense gregariis, primo sub epidermide nidulantibus, demum poro centrali apertis, postremo liberis dispansive, concavis, turgidis, nitidis, castaneo-atris; sporulis cylindricis, simplicibus, utrinque subobtusis-rotundatis, rectis, hyalinis, eguttulatis, 13-15 \approx 3.

Hab. ad folia arida prostrata Eucalypti Globuli, Pinhal de Valle de Canas pr. Coimbra in Lusitania (MOLLER), et in America boreali (COOKE).

272. **Phoma Heteromeles** Cooke et Harkn. in Grevillea n. 64. — Epi- 651
 phylla; peritheciis subsparis, semi-immersis, sursum nudis, conico-convexis, atris, nitidis; sporulis elongato-ellipticis, continuis, hyalinis, plerumque binucleatis, 10-12 \approx 3.

Hab. in foliis emortuis Heteromeles, in Carolina.

273. **Phoma ustulata** B. et C. North Am. Fungi n. 384. — Maculis 652
 helvolis seu rufo-brunneis; peritheciis minutis, punctiformibus; sporulis utrinque attenuatis, breve fusoideis, 7-8 μ longis.

Hab. in foliis Vitis æstivalis, in America boreali.

274. **Phoma viticola** (Cooke) Sacc. *Sphæroopsis viticola* Cooke Grev. 653
 XII. p. 22. — Foliicola gregaria; peritheciis subglobosis, demum centro depressis, fuscis; sporulis sublanceolatis, rectis, curvulisve, hyalinis, 22-24 \approx 5-6,5.

Hab. in foliis Vitis, in Carolina austr. (RAVENEL).

275. **Phoma succedanea** Passer. Erb. critt. Ital II. n. 1378. — Pe- 654
 ritheciis epiphyllis, superficialibus, in maculis exaridis, fuscis, irregularibus, gregariis vel crebre sparsis, globulosis, atris; sporulis ellipticis, nucleolatis, hyalinis vel, acervatim visis, fumidulis, 5 \approx 2,5.

Hab. in foliis languentibus Vitis viniferæ, in maculis *Peronosporæ*, Vigheffio prope Parma (PASSERINI).

276. **Phoma Negriana** Thüm. Pilz. Weinst. p. 185. — Peritheciis mi- 655
 nutis, epiphyllis, dense gregariis, hemisphærico-prominulis, in areolis foliorum griseo-albicantibus, subtus fuscis, variis inordinate dispositis; sporulis cylindræo-ellipsoideis, utrinque obtusulis, sæpe enucleatis, raro 2-guttatis, 5-7 \approx 3-3,5, hyalinis

Hab. in foliis adhuc vivis Vitis viniferæ, morbo dicto *Gialtume* laborantibus, Casale Monferrato in Ital. bor. (F. NEGRI).

277. **Phoma ampeligena** Sacc. *Coniothyrium ampelinum* Cooke in 656
 Grevillea. — Sparsa; peritheciis minutis, inconspicuis, brunneis, membranaceis, hemisphæricis; sporulis ovatis, hyalinis, 4 \approx 3.

Hab. in foliis *Vitis æstivalis*, socia *Peronospora viticola*, Aiken in Carolina.

278. **Phoma maculifera** (B. et C.) Sacc. *Phoma macularis* B. et C. 657
N. Am. F. n. 389 nec Desm. — Maculis orbicularibus, brunneis, immarginatis; peritheciis irregularibus, centralibus; sporulis oblongis subcymbiformibus, 10 μ . longis.

Hab. in foliis *Diplopappi*, Alabama in Amer. boreali (BEAUMONT).

279. **Phoma macularis** Desm. 22 Not. p. 7. — Amphigena, maculæ 658
minutæ piceæ insidens; peritheciis sparsis, nigris, nitidis, $\frac{1}{5}$ mill. diam., rotundatis, convexis, utrinque prominentibus, intus brunneis, quandoque linea atra circumscriptis; ostiolo papillæformi; sporulis oblongis, 7,5 = 2,5.

Hab. in foliis exsiccatis *Hibisci syriaci*, in Gallia.

280. **Phoma leptidea** (Fr. Curr.) Sacc. *Sphæria leptidea* Fr. S. M. 659
II. p. 522. Curr. Simpl. Sphær. p. 332. — Gregaria, velata, leviter convexa, collabascendo umbilicata, atra, pertusa; sporulis subcylindricis, rectis curvulisve, hyalinis, 5 μ . longis (sec. Curr.), aut 8 = 2 (sec. Fuck.).

Hab. in foliis dejectis *Vaccinii Vitis idææ*, in Suecia et Germania. Conf. Syll. I. p. 535.

281. **Phoma? Andromedæ** Schw. Syn. Am. bor. n. 2168. — Subtecta, 660
entophylla, epidermide circumcirca cinerescens; formatur macula indeterminatim effusa, in qua perithecia irregulariter sparsa aut aggregata sunt, difformia, nigra, ovato-applanata, multilocularia; epidermide demum rupta, ora perithecorum irregularia prominent; magnitudine perithecorum variante, vix unquam lineam et dimidiam excedit.

Hab. in foliis dejectis *Andromedæ axillaris*, Salem in Amer. bor. — Paginam aversam infestat.

282. **Phoma glomerosa** (Lév.) Sacc. *Sphæropsis glomerosa* Lév. Ann. 661
Sc. Nat. p. 63. — Erumpens, hypophylla; peritheciis cæspitosis, subglobosis, lævibus, nigris; ostiolis conicis, prominulis; sporulis perexiguis, continuis, ellipsoideis, hyalinis.

Hab. ad folia *Ericinææ* ignotæ, in Peruvia (MATHEWS).

283. **Phoma Cinnamomi** Sacc. Mich. II. p. 374. — Peritheciis sparsis, 662
epiphyllis, globoso-conoideis, $\frac{1}{5}$ mill. diam., nigris; sporulis ellipsoideo-oblongis, 6-7 = 2 $\frac{1}{2}$, 2-guttulatis, hyalinis.

Hab. in foliis semi-exsiccatis *Cinnamomi dulcis*, in horto Patavino.

284. **Phoma nobilis** Thüm. Contr. Myc. Lus. n. 562. — Peritheciis 663
epi-raro etiam hypophyllis, conico-prominentibus, minutis, sparsis,
griseo-atris, longe diu epidermide tectis, in foliorum vivorum par-
tibus arescendo fusco-griseis, plerumque marginalibus; sporulis
ovoideis, utrinque rotundatis, enucleatis, dilute fuscidulis, $15 \approx 6$.
Hab. ad folia viva Lauri nobilis, Cerca de St. Bento prope
Coimbra in Lusitania (MOLLER).
285. **Phoma protuberans** Lév. Ann. Sc. Nat. 1846, p. 281. — Peri- 664
theciis amphigenis, sparsis, innatis, globosis, prominentibus, intus
cinereis, ostioliis conicis pertusis; sporulis ovato-oblongis, continuis,
hyalinis.
Hab. ad folia decidua Lycii europæi, in horto Parisiensi.
— E descriptione *Leptothyrium protuberans* Sacc. diversum vi-
detur.
286. **Phoma? Calycanthi** Schw. Syn. Am. bor. n. 2166. — Multilo- 665
cularis-subrotunda, plana, confluens, fusca, epidermidi innata, tecta;
ostioliis indistinctis, sparsis; rarissime aperta, satis magna, bilinea-
ris; folia maculat.
Hab. frequens in foliis jam semi-emortuis Calycanthi, in
America boreali.
- 287. **Phoma crateriformis** (Dur. et Mont.) Sacc. Mich. II. p. 90. *Asco-* 666
spora crateriformis Dur. et Mont. Fl. Alg. I. p. 590. — Perithe-
ciis amphigenis, gregariis, innato-erumpentibus, atro-nitidis, api-
ce poro amplo pertusis, tandem elabentibus foveolamque relinquen-
tibus; sporulis cylindræis, utriusque obtusiusculis, $15 \approx 2-2\frac{1}{4}$, gut-
tulatis, hyalinis.
Hab. in foliis Phillyrearum, in Algeria et in Gallia.
288. **Phoma Oleæ** (DC.) Sacc. Mich. II. p. 91. *Sphæria Oleæ* DC. Fl. 667
Fr. VI. p. 136. *Hendersonia Oleæ* Desm. *Diplodia Oleæ* De Not.
— Peritheciis gregariis, amphigenis, globosis, innatis, atris, duris;
ostiolo erumpente, conico, subinde longiusculo; sporulis oblongo-
cylindræis, subrectis, utrinque subrotundatis, $18-25 \approx 3,5-5$, 3-4-
guttatis granulosisve, hyalinis; basidiis $18-30 \approx 3$, bacillaribus, fa-
cile evanescentibus.
Hab. in foliis dejectis Oleæ europææ, in Italia, Gallia, Dal-
matia, Germania. — Forma **Hederæ** Curr. Simpl. Sphær. p. 332,
Penz. F. Mortol. n. 22: sporulis $16,5-20 \approx 3-3,5$. In foliis Hederæ
in Britannia et Italia.
289. **Phoma syringella** Fuck. Symb. mycol. p. 133 (sub nom. *Ph.* 668
Syringæ). — Peritheciis in macula fusca gregariis, hemisphæricis,

demum depressis, papillatis, *Pleosporæ herbarum* magnitudine, atris; sporulis ovato-oblongis, biguttulatis, minutis, hyalinis, $8 \approx 2$.

Hab. in foliis putrescentibus *Syringæ vulgaris*, in Germania, Austria et Italia boreali, socia *Pleospora Syringæ* Fuck.

290. **Phoma petiolina** Sacc. Mich. I. p. 523. — Peritheciis gregariis, 669 subcutaneis, globoso-depressis, $\frac{1}{8}$ mill. diam., pertusis; sporulis ellipsoideis v. subreniformibus, $8-11 \approx 3\frac{1}{2}$, 2-pluriguttulatis, hyalinis (basidiis non visis).

Hab. in petiolis putrescentibus *Fraxini*, Rouen in Gallia (LE-TENDRE). — A *Ph. petiolorum* Desm. sporulis majoribus differt.

291. **Phoma subnervisequa** Des. 22 Not. pag. 7. — Amphigena, ma- 670 culis indeterminatis, albidis vel helvolis; peritheciis majusculis, subnervisequis, rotundatis, $\frac{1}{5}-\frac{1}{4}$ mill. diam., quandoque oblongis, $\frac{1}{2}$ mill. long., convexis, prominentibus, nigris, subnitidis, intus griseo-ochroleucis, tandem circumscisso-deciduis; ostiolo papillæformi; sporulis ovoideo-oblongis, 10-15 μ . longis.

Hab. in foliis siccis *Evonymi latifolii*, in Gallia.

292. **Phoma cylindrospora** (Desm.) Sacc. Mich. I. p. 527. *Sphæro-* 671 *psis cylindrospora* Desm. Ann. Sc. nat. 1849, p. 277. — Peritheciis punctiformibus, atris, denique collabentibus, atro-nitidulis, gregariis, globosis, epidermide tectis, pertusis; sporulis bacillaribus, utrinque obtusis, 20-25 $\approx 2-3$, rectis v. curvulis, hyalinis; basidiis filiformibus, simplicibus v. furcatis, 15-16 $\approx 1\frac{1}{2}-2$, hyalinis.

Hab. in foliis petiolisque *Hederæ*, *Vincæ*, *Quercus Ilicis*, *Evonymi japonici*, in Gallia, Belgio, Italia, Germania, Austria. — Forte hujus varietas est *Ph. Evonymi* Desm., cujus tamen diagnosim invenire non potui.

293. **Phoma Ralfsii** (B. et Br.) Sacc. *Sphærospis Ralfsii* B. et Br. 672 Ann. N. H. n. 419. — Peritheciis sparsis, punctiformibus, valde collabascentibus, hinc peziziformibus; sporulis, madore expulsis, perexiguis, oblongis.

Hab. in foliis *Hederæ*, Aberystwyth, in Britannia.

294. **Phoma Visci** Sacc. Mich. I. p. 125. — Peritheciis in maculis 673 foliorum arescendo flavicantibus aggregatis, epidermide velatis, dein erumpentibus, subglobosis, papillulatis, atris, $\frac{1}{4}-\frac{1}{5}$ mill. diam., solidiusculis; sporulis oblongo-ovatis, rectis, $5 \approx 2\frac{1}{2}$, 2-guttulatis, hyalinis.

Hab. in foliis *Visci albi*, ad Prater Vindobonæ (P. MAGNUS).

— A *Phyllostictis* peritheciis pachydermaticis recedit.

295. **Phoma Tulipiferæ** Schw. Syn. Am. bor. n. 2167. — Pustula 674

applanata, pluribus confluentibus, nigro-fuscis majusculis, satis elevatis; ostioliis indistincte formatis.

Hab. rarius in foliis *Liriodendri* in pagina inferiore sed ubi adest copiosa, Bethlehem in America boreali.

296. **Phoma petiolata** (Cooke) Sacc. *Sphæroopsis petiolata* Cooke Rav. 675
Fungi Amer. n. 147, et in Grev. — Sparsa, tecta; peritheciis subglobosis, prominulis, apice perforatis; sporulis ellipticis, hyalinis, 12-15 \approx 6,6.

Hab. in petiolis *Platani*, in Carolina austr. (RAVENEL).

297. **Phoma Calotropidis** (Thüm.) Sacc. *Sphæroopsis Calotropidis* 676
Thüm. in Grevillea. — Maculas magnas, epiphyllas, asteromoides, plus minusve orbiculatas, late effusas et sæpe confluentes, griseo-olivaceas, fere subpulveraceas formans; peritheciis densissime gregariis, numerosis, minutis, punctiformi-conicis, atris; sporulis cylindrico-ellipsoideis, vertice acutatis, basi angustato-obtusatis, simplicibus, 20-30 \approx 6, pallidissime cinerescens in sterigmatibus sublongis, tenuibus, rectis vel subarcuatis, 10-18 μ . longis.

Hab. ad folia languida *Calotropidis* proceræ, prope Berber in Nubia (SCHWEINFURTH).

298. **Phoma Elæagni** Sacc. Mich. I. p. 54. — Peritheciis amphigenis, 677
innato-erumpentibus, globosis, 130 μ . diam., papillulatis, nigris; sporulis elliptico-cylindræis, 8-11 \approx 3, minute 2-3-guttulatis, hyalinis, basidiis filiformibus, 20-25 \approx 1, curvulis suffultis.

Hab. in foliis dejectis *Elæagni reflexi*, in horto botanico Patavino.

299. **Phoma Trabutiana** Sacc. in litt. ad cl. Trab. — Peritheciis am- 678
phigenis et sæpius hypophyllis, in areis arescendo dealbatis, laxe gregariis, globoso-depressis, $\frac{1}{10}$ - $\frac{1}{8}$ mill. d., poro pertusis, epidermide initio velatis; sporulis oblongis, utrinque obtusiusculis, rectis, 2-guttulatis, 7-9 \approx 2,5-3, hyalinis; basidiis bacillaribus, fasciculatis, 15-20 \approx 1,5, rarius a basi furcatis.

Hab. in foliis *Carolineæ macrocarpæ*, prope Alger (TRABUT). — Spermogonium *Diaporthes* nondum cognita.

300. **Phoma cincta** B. et C. North Amer. Fungi n. 391. — Irregu- 679
laris, depressa, materie alba cincta; sporulis oblongis, angustis, 6-8 μ . long.

Hab. in foliis *Ulmi* americanæ, in Carolina inferiore.

301. **Phoma discosioides** Sacc. Mich. I. pag. 526. — Peritheciis 680
erumpenti-superficialibus, lenticularibus, pertusis, $\frac{1}{6}$ mill. diam., atro-nitidulis, minute contextis; sporulis botuliformibus, minutis-

simis, $3 \approx \frac{1}{2}$, basidiis acicularibus, apice subincrassatis, $10 \approx \frac{1}{2}$, suffultis.

Hab. in pag. sæpius superiore foliorum Fagi silvaticæ, Rouen in Gallia (LETENDRE).

302. **Phoma cirratula** Desm. Exs. n. 53, Ser. II., 20 Not. p. 12. — 681

Peritheciis majusculis, globosis, approximatis, nigris, innatis, convexis, demum collabescentibus; sporulis minutis, oblongis, rectis, biguttulatis, $7,5 \approx 2,5$, cirrose expulsis.

Hab. in foliis languidis Daphnes Laureolæ, in Gallia.

303. **Phoma daphnea** (Preuss) Sacc., *Gerulajacta Daphnea* Preuss 682

Hoyersw. n. 315. — Peritheciis membranaceis, hemisphæricis, atris; nucleo subalbo; basidiis longis, clavæformibus, albis; sporulis oblongis, subfuscis, interdum cum guttulis oleosis.

Hab. in foliis Daphnes, Hoyerswerda.

304. **Phoma Bergii** Speg. Fung. Arg. Pug. n. 100. — Peritheciis 683

sparsis, subepidermicis, 110-120 μ . d., lenticularibus, atris, membranaceis, coriaceis, ostiolo impresso pertusis; contextu parenchymatico, fuligineo; sporulis ellipticis vel subglobosis, utrinque obtusissime rotundatis, ac 1-guttulatis, hyalinis, $3-4 \approx 1\frac{1}{2}-2$.

Hab. ad folia languida vel emortua Chuquiragæ erinacæ, prope el Rio Negro en Patagonia (C. BERG).

305. **Phoma Aucubæ** West. Exs. n. 1373. — Peritheciis exiguis, co- 684

piosis, hinc inde sparsis, atro-nitidis, innato-erumpentibus, poro pertusis; nucleo albido; sporulis anguste ovatis, acutiusculis, $5 \approx 2,5$.

Hab. in foliis Aucubæ japonicæ, in Belgio. — Forma **ramulicola**. In ramis ejusdem in Italia et Belgio.

306. **Phoma Acmella** Berk. in Fl. New Zeal. p. 193, t. CVI. f. 10. — 685

Epidermide brunneola tecta; peritheciis depressis; sporulis variis oblongis, utrinque leviter attenuatis, $7-10 \approx 4$.

Hab. in foliis Corynocarpi levigatæ, socia *Sphaeria Acetabulo*, Te Apiti in Nova Zelandia (COLENZO).

307. **Phoma atomispora** Cooke Grev. XII. p. 22. — Peritheciis spar- 686

sis, prominulis, atris, subglobosis, pertusis; sporulis minutissimis, profusis, hyalinis, ovoideo-ellipticis, $3 \approx 1,5$.

Hab. in petiolis nervisque Magnoliæ, in Carolina australi (RAVENEL).

308. **Phoma minima** (B. et C.) Sacc. *Sphaeropsis minima* B. et C. 687

North Amer. F. n. 418. — Maculis pallide brunneis, subcircularibus; peritheciis minutis, tectis; sporulis breviter obovatis, 10μ . longis.

Hab. in foliis subviviis *Aceris rubri*, New England et North Greenbush in Amer. bor. (SPRAGUE et PECK). — Observante Peckio: perithecia sunt epiphylla; sporulæ interdum subangulosæ, mucro involutæ; maculæ foliorum sæpius sunt obscurius marginatæ. — «An *Phyllosticta?*».

309. **Phoma Malpighiæ** (Mont.) Sacc. *Sphæroopsis Malpighiæ* Mont. 688
Cent. VI. n. 40, l. c. — Epiphylla; peritheciis gregariis, punctiformibus, globoso-depressis, fuscis, epidermide atrata tectis, in macula pallida prominentibus; sporulis pedicellatis oblongo-ellipticis, 15 = 5, hyalinis, continuis, guttulas binas oleinas foventibus.

Hab. in foliis *Malpighiæ* cujusdam, in horto Massiliensi in Gallia (CASTAGNE).

310. **Phoma circumscripta** Cooke in Grevillea. — Maculis exaridis, 689
brunneo-cinctis; peritheciis atris, nitidis; sporulis ellipticis, hyalinis, 7 = 2,5. *

Hab. in foliis emortuis *Bumeliæ*, Darien Georgiae in Amer. boreali (RAVENEL).

311. **Phoma maculans** (B. et C.) Sacc. *Sphæroopsis maculans* B. et C. 690
North Amer. F. n. 417 (bis). — Maculis candidis, rufo-marginatis; peritheciis punctiformibus; sporulis obovatis, brevibus, 12-13 = 9-10.

Hab. in foliis *Bumeliæ*, Alabama in Amer. bor. (PETERS).

312. **Phoma ligustrina** Thüm. Contr. F. Lit. n. 314. — Peritheciis 691
epiphyllis v. amphigenis, pertusis, numerosis, dense gregariis, punctiformibus, conico-hemisphæricis, nitido-atris; sporulis minutis, cylindraceis, rectis, utrinque rotundatis, enucleatis, hyalinis, 2-3 = 1,5.

Hab. in foliis putridis *Ligustri japonici*, Gorizia. — «An *Phyllosticta?*».

313. **Phoma helvola** B. et C. North Amer. F. n. 386. — Maculis hel- 692
volis definite marginatis; peritheciis minutis; sporulis minimis, breviter oblongis, 2½-3 μ . longis.

Hab. in foliis *Anonaceæ* cujusdam, Texas in Amer. bor. (C. WRIGHT). — «An *Phyllosticta?*».

314. **Phoma glæosporioides** Sacc. Mich. II. p. 145. — Peritheciis in 693
partibus foliorum exsiccatis sparsis, hemisphæricis, 110 μ . diam., late pertusis; contextu laxo tenui-parenchymatico, fuligineo; sporulis breve fusoideis, inæquilateralibus, utrinque obtusiusculis, granulosis, hyalinis, 25 = 7, basidiis teretibus, sporula dimidio brevioribus suffultis.

Hab. in pag. sup. foliorum coriaceorum *Viburni*, in Gallia austr. (ROUMEGUÈRE).

315. **Phoma glandulosa** Cooke Rav. Fung. Amer. n. 142, Grev. t. 99, 694 f. 9. — Sparsa vel subgregaria; peritheciis epidermide nigrificata tectis; sporulis ellipticis, hyalinis, 8 μ . longis.

Hab. in petiolis Ailanthi, Aiken in Carolina (RAVENEL).

316. **Phoma Mahoniæ** Thüm. Contr. Mic. Litor. n. 161, t. I. f. 10. 695 — Peritheciis dense gregariis, epiphyllis, raro amphigenis, mediis, globosis, nigris in maculis irregularibus, griseo-fuscis, postremo albis, exsiccatis; sporulis minutissimis, cylindrico-ellipsoideis, utrinque obtuso-rotundatis, hyalinis, 3-4 \approx 1-1,5.

Hab. ad folia viva Mahoniæ Aquifolii, Gorizia.

317. **Phoma Mahoniana** Sacc. Mich. II. p. 90. — Peritheciis in par- 696
tibus foliorum exsiccatis, laxè gregariis, globoso-depressis, 150 μ . diam.; contextu dense parenchymatico; sporulis oblongis, 8-10 \approx 2, hyalinis; basidiis bacillaribus, 10-12 μ . long.

Hab. in foliis Mahoniæ Aquifolii, socia *Phyllosticta*. Toulouse in Gallia (ROUMEGUÉRE). — Huc forte spectat *Ph. Mahoniæ* Lacaill. in Rev. Myc. II. p. 62 (nullibi descripta). A *Ph. Mahoniæ* Thüm. sporulis triplo majoribus differt.

318. **Phoma cinerea** Desm. 23 Not. p. 6. — Amphigena; maculis 697
brunneis, dein cinereis, irregularibus; peritheciis minutissimis, numerosis, innato-prominulis, sparso-approximatis, quandoque subnervisequis, intus sordidis; ostiolo punctiformi; sporulis oblongo-cylindricis, rectis vel subcurvulis, 6-7,5 \approx 1,5-2.

Hab. in foliis languentibus Rhamni cathartici, in Gallia.

319. **Phoma myriocarpa** Dur. et Mont. Syll. n. 982. — Amphigena; 698
peritheciis innatis, globosis, minimis, apice poro pertusis et in maculas polygonas atras confertim aggregatis; sporulis oblongis hyalinis, utrinque 1-guttatis.

Hab. in foliis deciduis Rhamni Alaterni, Alger (DURIEU).

320. **Phoma? phyllogeneta** (Link) Sacc. *Combodia phyllogeneta* Link, 699
Fr. Summa Veg. Scand. p. 422. — Peritheciis carbonaceis, fere liberis, astomis; nucleo gelatinoso-floccoso; sporulis magnis oblongis, continuis.

Hab. in foliis in Tropicis (BEYRICH).

321. **Phoma lucida** (B. et C.) Sacc. *Sphæropsis lucida* B. et C. Cub. 700
Fungi n. 565. — Peritheciis lucidis, gregariis, ad marginem macularum circinantibus; sporulis oblongis, utrinque leviter attenuatis, obtusiusculis, hyalinis, 12-13 μ . longis; basidiis æquilongis.

Hab. in pag. superiore foliorum emortuorum, in Cuba.

322. **Phoma erumpens** (B. et C.) Sacc. *Sphæropsis erumpens* B. et C. 701

Cub. Fung. n. 566. — Peritheciis paucis (6-10), in stromate parvo orbiculari congestis, rima dehiscentibus; sporulis oblongis, utrinque leviter attenuatis, obtusiusculis, hyalinis, $25 \approx 7$.

Hab. in pag. superiore foliorum putrescentium, in Cuba.

II. In Dicotyledoneis herbaceis.

A) Caulicolæ.

323. **Phoma xanthina** Sacc. Mich. I. p. 359. — Peritheciis gregariis, 702 epidermide tumidula velatis, globoso-depressis, $\frac{1}{5}$ - $\frac{1}{3}$ mill. diam.; ostiolo exiguo erumpente; contextu laxe parenchymatico, fuligineo; sporulis cylindræis v. cylindræo-oblongis, utrinque obtusis, curvulis, $15 \approx 4-6$, 2-3-guttulatis, singulis subhyalinis, coacervatis luteolis; basidiis obsoletis.

Hab. in caule putrescente Delphinii, prope Alençon in Gallia (C. C. GILLET).

324. **Phoma lirellata** Sacc. *Phoma lirelliformis* Sacc. Mich. II. p. 703 93, 337, nec Mich. I. p. 522. — Peritheciis gregariis, sæpeque seriatis, valde compressis, vix papillatis, subcutaneo-erumpentibus; sporulis breve fusoides, 8-10 $\approx 2-2\frac{1}{2}$, hyalinis, basidiis longis, bacillaribus, suffultis.

Hab. in caulibus Pæoniæ, Matricariæ et Lythri, in Gallia.

325. **Phoma thalictrina** Sacc. et Malbr. Mich. II. p. 617. — Peri- 704 theciis gregariis, subcutaneis, globoso-oblongis; sporulis ovato-oblongis, 6-7 $\approx 3-3,5$, 2-guttatis, hyalinis.

Hab. in caule emortuo Thalictri aquilegifolii, Rouen in Gallia. — A *Phoma exigua* Desm. prorsus differre videtur. Spermogonium *Diaporthes*.

326. **Phoma demissa** Sacc. Fungi Ven. Ser. V. p. 201. — Peritheciis 705 subcutaneis, e globoso-compressis, nigro-farctis; sporulis ovoideis, 6 $\approx 2\frac{1}{2}$, 2-guttulatis, hyalinis; sterigmatibus filiformibus, hamatis, 20 ≈ 1 .

Hab. in ramis Clematidis Vitalbæ, Selva in Italia bor., socia *Diaporthe demissa* Sacc., cujus est status spermogonicus.

327. **Phoma Clematidis** Sacc. Mich. II. pag. 616. — Peritheciis sub- 706 gregariis, punctiformibus, nigris, epidermide initio velatis; sporulis cylindræo-oblongis, curvulis, 14 ≈ 4 .

Hab. in ramulis petiolisque Clematidis, Elbeuf près Rouen in Gallia.

328. **Phoma vulgaris** Sacc. Mich. I. p. 524. — Peritheciis gregariis, 707
globoso-lenticularibus, epidermide velatis, 100-120 μ . diam., poro
pertusis; sporulis oblongo-reniformibus, 8-10 \approx 2 $\frac{1}{2}$ -3, eguttulatis,
hyalinis.

Hab. in caulibus Clematidis Vitalbæ, socia *Pleospora vulgaris*, et Medicaginis sativæ, Saintes et Rouen in Gallia.

329. **Phoma Dentariæ** (West.) Sacc. *Zythia Dentariæ* West. Bull. 708
Acad. Belg. II. n. 7, *Ascospora Dentariæ* (West.) Fuck. Symb.
p. 95. — Peritheciis innato-emergentibus, epidermideque secedente
superficialibus, membranaceis, sphæroideis v. ovoideis, denique col-
labascentibus; nucleo albido; sporulis ovato-cylindræis, utrinque
obtusis, hyalinis, 10 \approx 2.

Hab. in caulibus siccis Dentariæ bulbiferæ, in Belgio et
Germania. — Sec. Fuckel inessent asci 18 \approx 14, sporidia cylindræa
8 \approx 2 continentia. Sed cl. Oudemans in exemplaribus originalibus
ascos nullos observavit.

330. **Phoma Lingam** (Tode) Desm. Ann. Sc. Nat. 1849, p. 281. *Sphæ-* 709
ria Lingam Tode Meckl. 2, fig. 116. — Gregaria; peritheciis dif-
formibus convexis, mox depresso-concavis, rugosis, atris; ostiolo
rudi decumbente; sporulis minutis, oblongis, 2-guttulatis, hyalinis,
5 μ . longis.

Hab. in caulibus Brassicæ oleracæ aliarumque herbarum
majorum, in Suecia, Germania, Gallia, Italia et Britannia. — Pro-
tea; mixta reperiuntur individua variæ ætatis et formæ. Perithe-
cia juniora convexa, levia; mox collabentia, subplicata, difformia,
angulata vel *Hysterii* instar elongata, labiata.

331. **Phoma Brassicæ** Thüm. in Hedwigia. — Peritheciis majuscu- 710
lis, dense aggregatis, sæpe confluentibus, hemisphæricis, plicatis, ex
obscuris fusco-nigris, superficialibus; sporulis numerosis, cylindra-
cæis, rectis, utrinque rotundatis, continuis, enucleatis, hyalinis,
3-4 \approx 1,5-2.

Hab. in caulibus putridis Brassicæ oleracæ, in Gallia
et Germania (LIBERT).

332. **Phoma incrustans** (Nits.) Sacc. Mich. I. pag. 521. — Macula 711
stromatica effusa nigricante; peritheciis globoso-depressis, tectis;
sporulis ovato-oblongis, 8-9 \approx 2, 2-guttatis; basidiis filiformibus,
20 μ . longis.

Hab. in caulibus Brassicæ oleracæ, in Gallia et Ger-
mania. — Spermogonium *Diaporthes*.

333. **Phoma Niesslii** Sacc. Mich. II. pag. 618. — Peritheciis dense 712

gregariis, subepidermicis, globoso-depressis, pertusis; sporulis oblongo-clavulatis, $6 \approx 3$, biguttulatis, hyalinis.

Hab. in caule *Gentianæ luteæ*, Le Sapey (Isère), socia *Venturia Niesslii* Sacc., cujus forte spermogonium (THERRY).

334. **Phoma Gentianæ** J. Kühn Hedw. n. 1, 1883. — Peritheciis in 713
matrice albo-maculata sitis, gregariis, initio tectis, dein erumpentibus, atro-brunneis, globosis vel depressis, papillatis, $150-300 \mu$. diam.; nucleo albo; sporulis ovato-oblongis, $7-8 \approx 1,8-2,2$, subinde curvulis, hyalinis.

Hab. in caulibus, foliis calycibusque *Gentianæ ciliatæ*, prope Fridrichroda in Thuringia.

335. **Phoma anguina** B. et C. F. N. Pac. Exp. n. 123. — Maculis 714
parvis nigris, hic illic confluentibus; peritheciis depressis; sporulis subellipticis.

Hab. in caule emortuo *Alysicarpi bupleurifolii*, in freto Behring. — Cl. Berkeley in notula MS. scripsit: probabiliter ex Hong-Kong, nam *Alysicarpus* ad Boream tam altam non pervenit.

336. **Phoma punctulata** Cooke in Rav. Fung. Amer. n. 19 et in Gre- 715
villea. — Subgregaria; peritheciis epidermide nigrificata tectis, centro albo-punctatis; sporulis ellipticis, binucleatis, 12μ . longis.

Hab. in caulibus Leguminosarum, Gainesville, Florida in America boreali.

337. **Phoma anceps** Sacc. Mich. II. p. 273, *Phoma ambigua* Sacc. 716
Mich. II. 91, nec Nits. — Peritheciis globoso-depressis, dein subumbilicatis, centro papillulatis, $\frac{1}{3}$ mill. d., initio epidermide velatis; sporulis cylindræis, leniter curvis, $12-15 \approx 2$, utrinque obtusiusculis, granuloso-2-guttulatis, hyalinis.

Hab. in caulibus emortuis *Medicaginis sativæ*, in Gallia (MALBRANCHE). — Inter *Phomam* et *Septoriam* media. Ab affini *Ph. bacillari* Sacc. differt peritheciis applanatis.

338. **Phoma Phaseoli** Desm. Descr. esp. nouv. Crypt. 1836, p. 13, *Ph.* 717
Desmazieri Dur. et Mont. f. *Phaseoli*. — Peritheciis suborbicularibus, convexis, ore rotundo pertusis; sporulis oblongis, hyalinis, biguttulatis, $10-12 \mu$. longis.

Hab. in caulibus *Phaseolorum*, Lille in Gallia et in Belgio. — Ab affini *Ph. Spirææ* differt peritheciis minoribus, densioribus magisque prominulis. — Forma **Lepidii** Sacc. Sporulis tertiuseculis, utrinque rotundatis, $7 \approx 3$, 2-guttatis, hyalinis, nonnumquam medio lenissime coarctatis. In caule *Lepidii* graminifolii, in Gallia.

339. **Phoma minutella** Sacc. et Penz. Mich. II. p. 618. — Peritheciis 718
gregariis, epidermide velatis fere punctiformibus, pertusis; sporulis
allantoideis perexiguis, 4-5 \approx 0,7-1, hyalinis, curvulis.
Hab. in caulibus Phaseolorum in cultis, Eure in Gallia, so-
cia *Hendersonia hortensi* (MALBRANCHE).
340. **Phoma anaxæa** Speg. Mich. I. pag. 482. — Stromate ramulos 719
corticatos vel decorticatos late ambiente atque lignum atro-nitens
efficiente; peritheciis ligno immersis, atris, 150-180 μ . diam.; spo-
rulis minutissimis, hyalino-chlorinis, subellipticis, utrinque obtu-
siusculis, 2-3 \approx 1-1½.
Hab. in ramulis emortuis Onobrychis sativæ in alveo
Plavis (Anaxi), in Ital. bor. — Spermogonium *Diaporthes*.
341. **Phoma hedysarella** Sacc. Ph. *Hedysari* Thüm. Pilz. Sibir. n. 720
784, nec Mont. — Peritheciis gregariis, primo tectis, demum libe-
ratis, punctiformi-hemisphæricis, subelevatis, mediis, nigris; spo-
rulis breve cylindricis, utrinque rotundato-truncatis, enucleatis,
continuis, hyalinis, 5,5-6 \approx 2.
Hab. in caulibus petiolisque emortuis Hedysari setigeri,
prope Minussinsk in Sibiria asiatica. — A *Phoma herbarum* West.,
ut videtur, bene distincta.
342. **Phoma Hosackiæ** C. et Hark. F. Calif. in Grev. 1880, p. 6. — 721
Sparsa, punctiformis, subtecta, atra; sporulis cylindrico-ellipticis,
utrinque rotundatis, hyalinis, 10-12 \approx 3.
Hab. in caulibus Hosackiæ glabræ, in California, regione
Americæ borealis.
343. **Phoma Galegæ** Thüm. Contr. Myc. Lus. n. 570. — Peritheciis 722
gregariis, mediis, orbiculato-hemisphæricis, semiimmersis, subte-
ctis, fuscis, nitidis; sporulis late ellipsoideis, utrinque angustato-
subacutatis, grosse binucleatis, achrois, 6-7 \approx 3-3,5.
Hab. in caulibus emortuis Galegæ officinalis, in horto
botanico Coimbra in Lusitania (MOLLER).
344. **Phoma Indigoferæ** Sacc. Mich. II. p. 380. — Peritheciis subcu- 723
taneis, ovato-globulosis, 1/5 mill. d., pertusis, nigris; sporulis ova-
to-oblongis, 8 \approx 3-4, 2-guttulatis, hyalinis; basidiis filiformibus,
20 \approx 1½.
Hab. in caule leguminibusque Indigoferæ cultæ, Rouen
in Gallia (LETENDRE). — Spermogonium *Diaporthes*.
345. **Phoma Gossypii** Sacc. Mich. II. p. 144. — Peritheciis epider- 724
mide velatis erumpentibusque, globoso-depressis, intus griseis;

sporulis breve fusoides, $8 \approx 2$, 2-guttulatis, hyalinis, basidiis prælongis, bacillaribus, $30 \approx 1\frac{1}{2}$, basi crassioribus, suffultis.

Hab. in caule *Gossypii*, socia *Septoria arcuata*, in Carolina austr. (RAVENEL). — Spermogonium *Diaporthes*.

346. **Phoma Dilleniana** Rabenh. Hedw. 66, pag. 192, *Phomæ exiguæ* Desm. proxima, differt sporulis majoribus. $6-9 \approx 3,5$, oblongis, sæpius cylindricis, haud raro curvulis.

Hab. ad caules siccos Anodæ Dillenianæ, in hortis prope Dömitz in Germania (Dr. FIEDLER).

347. **Phoma ochra** Cooke in Rav. Fung. Amer. n. 18, et Hedwigia 1878, p. 37. — Peritheciis gregariis tectis, parvulis, globosis, maculas effusas efformantibus; sporulis ellipsoideis. $10-12 \approx 3,5-4$, binucleatis.

Hab. in caulibus Hibisci esculenti, Aicken in Carolina (RAVENEL).

348. **Phoma Lavateræ** West. Not. VI. p. 22. — Peritheciis perexiguis, sparsis, nigris, immersis, ostiolo papillato, epidermidem elevantibus et perforantibus; sporulis ovoideis vel oblongis, hyalinis, $10 \approx 2,5$.

Hab. in caule ramisque Lavateræ trilobæ, in hortis Tarmonde in Belgio.

349. **Phoma labilis** Sacc. Mich. II. p. 341, *Phoma Malvacearum* Sacc. Mich. I. p. 258, nec West. — Peritheciis initio epidermide velatis, dein, ea secedente, superficialibus, globosis, tandem collabascendo umbilicatis, $\frac{1}{6}-\frac{1}{8}$ mill. diam., nigris; sporulis oblongis, sæpe leniter curvis, $5-6 \approx 2-2\frac{1}{2}$, 2-guttulatis, hyalinis.

Hab. in caulibus putridis Althææ roseæ, Padova.

350. **Phoma Malvacearum** West. Exs. n. 1232. — Peritheciis subcutaneis, globoso-oblongis, nigricantibus, epidermide subinde atrata tectis; nucleo fusco; sporulis fusoides, obtusiusculis, $7-10 \approx 2,5-3$, 2-guttulatis; basidiis bacillaribus, sesquolongioribus.

Hab. in caulibus Althææ roseæ et officinalis, Malvæ silvestris, Hibisci esculenti, in Gallia, Belgio, Lusitania, Italia et Sibiria.

351. **Phoma immersa** Sacc. — Peritheciis perexiguis, globoso-depressis vel conico-deplanatis, vertice tandem pertusis; sporulis fusoides, rectiusculis, sæpe 2-guttatis, $6-7 \approx 2-2,5$, hyalinis.

Hab. in caulibus Lappæ, in Germania et Italia. — Spermogonium *Diaporthes immersæ* (Fuck.) Nits.

352. **Phoma Arctii** (Lasch) Sacc. Mich. II. pag. 340. — Peritheciis

gregariis, subcutaneis, depressis, atro-olivaceis; sporulis oblongo-ellipsoideis, $7 \approx 3-3\frac{1}{2}$, biguttulatis, hyalinis, basidiis filiformi-ar-
cuatis, $25 \approx 1\frac{1}{2}$, suffultis.

Hab. in caulibus putrescentibus Lappæ majoris, in Gallia.
— Spermogonium prob. *Diaporthis Arctii* (Lasch) Nits. (Syll. I. pag. 653).

353. **Phoma decolorans** (Lév.) Sacc. *Sphæropsis decolorans* Lév. 732

Ann. Sc. Nat. p. 255. — Peritheciis minutis, gregariis, seriatis, ovatis intus extusque nigris, macula albida insidentibus; ostioliis erumpentibus, papillatis, dein pertusis; sporulis ovato-elongatis, utrinque obtusis, pellucidis, 2-3-guttulatis.

Hab. ad caules Lappæ minoris, in Gallia merid. (CASTAGNE).

354. **Phoma inulina** Sacc. Mich. II. p. 91. — Peritheciis sparsis, len- 733

ticularibus, tectis, 60-100 μ . diam., pertusis; sporulis oblongis, 6-7 $\approx 2\frac{1}{2}$, 2-guttatis, quandoque medio subconstrictis, hyalinis, basidiis filiformibus, flexuosis, 20 ≈ 2 , suffultis.

Hab. in caulibus Inulæ viscosæ, in Gallia merid. (ROU-MEQUÈRE).

355. **Phoma albicans** Rob. et Desm. 17 Not. p. 11. — Peritheciis 734

minutis, copiosis, inordinatis, intus sordidis, epidermide tectis, humidis, globosis, prominulis, $\frac{1}{6}-\frac{1}{5}$ mill. diam.; ostioliis minutis, papillatis; sporulis oblongo-cylindræis, 10 μ . longis, hyalinis.

Hab. in caulibus pedunculisque, superficie dealbatis, Cichoriacearum, in Gallia, Italia et Belgio. — Spermogonium *Pleosporæ albicantis*.

356. **Phoma Artemisiæ** Kalch. et Cooke in Grev. IX. p. 18. — Spar- 735

sa, tecta, hysteriiformis, atra; peritheciis applanatis; sporulis subfusiformibus, hyalinis, binucleatis, 15-18 ≈ 4 ; basidiis tenuibus, elongatis, superne curvulis.

Hab. in caulibus Artemisiæ, in Africa australi.

357. **Phoma fuscata** (Bonord.) Sacc. *Clisosporium fuscum* Bonord. 736

Abhandl. p. 139. — Peritheciis parvis, lentiformibus, membranaceis, fuscis, subepidermicis; mycelio ramoso, septato-articulato; sporulis albis, ovatis.

Hab. in caulibus Dahliæ, in Germania. — An affinis *Ph. fuscae* Preuss?

358. **Phoma perexigua** Sacc. F. V. N. Ser. IV. 10, sub n. 23. — Pe- 737

ritheciis subcutaneis, atris, globoso-depressis, gregariis; sporulis fusoides, curvulis, deorsum attenuatis, 6-8 ≈ 3 , crasse 2-guttatis, hyalinis; basidiis filiformibus 25-32 ≈ 1 , apice uncinatis.

- Hab.* in caule *Carlinæ vulgaris*, in Italia boreali, socia *Diaporthe perexigua* Sacc., cujus est status spermogonicus.
359. **Phoma Achilleæ** Sacc. Mich. II. p. 616. — Peritheciis laxè gregariis, epidermide initio velatis, globoso-oblongis, obtusis, atris; sporulis elliptico-fusoideis, 9-10 \approx 2,5-3,5, biguttatis, hyalinis; basidiis hamatis, 26 \approx 1. 738
- Hab.* in caulibus emortuis *Achilleæ Millefolii*, in Gallia et Italia. — Verisimiliter spermogonium *Diaporthes orthoceratis* f. *Achilleæ*.
360. **Phoma Cichoriacearum** Sacc. Mich. II. p. 616. — Peritheciis gregariis, epidermide velatis, prominulis, globoso-suboblongis, obtusis, atris; sporulis fusoido-oblongis, 10 \approx 3,5, 2-guttulatis, hyalinis. 739
- Hab.* in caulibus emortuis *Crepidis*, Rouen in Gallia (MALBRANCHE). — Spermogonium *Diaporthes*.
361. **Phoma Lactuæ** Sacc. Mich. I. p. 94. — Peritheciis gregariis tectis erumpentibusque, globuloso-oblongis; sporulis 10-12 \approx 2 $\frac{1}{2}$ -3, 2-guttulatis, basidiis curvis, 20-25 \approx 1, fultis. 740
- Hab.* in caulibus emortuis *Lactuæ sativæ*, Rouen in Gallia (LETENDRE). — Spermogonium *Diaporthes*.
362. **Phoma linearis** Sacc. Mich. II. p. 340. — Peritheciis globoso-depressis, seriatis, innato-erumpentibus, nigricantibus; sporulis fusoidis, 10-12 \approx 2, 2-guttulatis, hyalinis, basidiis bacillaribus, 20 \approx 1 $\frac{1}{2}$, suffultis. 741
- Hab.* in caulibus *Solidaginis Virgaureæ*, in Gallia meridionali. — Spermogonium *Diaporthes*.
363. **Phoma lusitanica** Thüm. Contr. Myc. Lus. n. 335. — Peritheciis numerosissimis, dense gregariis, punctiformibus, hemisphærico-elevatis, nitido-atris, primo cuticula tectis, postremo poro centrali apertis liberisve; sporulis ellipsoideis, numerosis, utrinque subrotundatis, uni- vel plerumque non nucleatis, achrois, 4 \approx 2. 742
- Hab.* in caulibus aridis *Centaureæ sempervirentis*, Baleia prope Coimbra in Lusitania (MOLLER).
364. **Phoma endorhodia** Sacc. Mich. II. p. 275. — Peritheciis gregariis innatis, globulosis, $\frac{1}{4}$ mill. diam., intus roseo-farctis; ostiolo conoideo epidermidem perforante, obtuso; peritheci contextu distincte parenchymatico, ochraceo-fuligineo; sporulis tereti-oblongis, utrinque rotundatis, 8-9 \approx 1 $\frac{1}{2}$ -2, 2-guttulatis, hyalinis. 743
- Hab.* in caulibus emortuis *Centaureæ Scabiosæ*, in colibus Vittorio in Italia bor.
365. **Phoma subconfluens** Mont. et Dur. Fl. Alg. I. pag. 601, Syll. 744

n. 976. — Peritheciis membranaceis, confertis confluentibusque, epidermide tandem secedente tectis, atris, opacis, poro apicali pertusis, intus corneis; sporulis oblongis.

Hab. super tuberculis *Centaureæ sphærocephalæ* vulnere insectorum in caule procreatis, Alger (DURIEU).

366. **Phoma Anethi** (Pers.) Sacc. Mich. II. p. 336, *Sphæria Anethi* 745

Pers. Syn. p. 30, *Dothidea Anethi* Fr. Summa Veg. Scand. p. 387. — Elongata, interrupta, rugosa, nigrescens; peritheciis cohærentibus, subnudis, papillatis, intus albobarctis; sporulis minutis, ovato-cylindræis, 4 μ . longis (sec. Fuck.).

Hab. in caulibus *Anethi graveolentis*, in Germania, Gallia, Suecia, Lusitania et Belgio. — Jam in caulibus semivivis observatur, subcinerea, mollior, astoma, *Dothideam* referens. Perithecia polyserialia, prominula, epidermide tenui solum tecta, in strias 2-4 lin. longas, 1-2 latas inæquales aggregata. — Sec. Fuck. Symb. p. 396 cum iisdem sporulis modo descriptis adsunt sporulæ majores, oblongæ, 30 = 6, oblique 1-septatæ, hyalinæ. — Var. **Apii-Petroselini** Desm. Typo paulo minor. In Gallia et Belgio.

367. **Phoma Preussii** Sacc. *Phoma myelocola* Preuss F. Hoyersw. 746

n. 29. — Peritheciis globosis, minutissimis, confertis, papillatis, nigris, in myelostromate (?) elongato conceptis; nucleo albo, mucoso; sporulis ovatis oblongisve, continuis, albis.

Hab. ad caules *Anethi graveolentis*, Hoyerswerda.

368. **Phoma fœniculina** Sacc. Mich. II. p. 95. — Peritheciis grega- 747

riis, initio tectis, globoso-oblongis; sporulis fusoides, 8 = 3, 2-guttulatis, basidiis uncinatis, 20 = 1, suffultis.

Hab. in caulibus *Fœniculi arvensis*, Saintes in Gallia (BRUNAUD), et *Angelicæ*, Malmedy (LIBERT). — Spermogonium *Diaporthes*.

369. **Phoma longissima** (Pers.) West. Not. III. p. 13 (1854), Berk. 748

Outt. p. 314 (1860), *Sphæria longissima* Pers. Syn. p. 31. — Tecta, nigra; peritheciis minutis, in series longissimas parallelas confluentibus; ostioliis obsolete; sporulis ovoideis, 4-6 = 1,5-2, bi-guttulatis, hyalinis.

Hab. in caulibus *Umbelliferarum*, *Atriplicis*, *Chenopodii*, *Bliti*, in Gallia, Britannia, Suecia, Italia, Germania, Belgio, Sibiria et America. — Striæ lineares, ab uno caulis nodo ad alterum porrectæ, vix lineam latæ, passim confluentes, epidermide mox nigrescente tectæ. Perithecia stromate tenuissimo insidentia, demum subprominula.

370. **Phoma obtusa** Fuck. Symb. p. 378. — Peritheciis seminis *Pa-* 749
paveris magnitudine, sparsis, primo tectis, dein liberis, compressis,
vertice applanatis et subtilissime papillatis; sporulis oblongis, utrin-
que obtusis, 1-2-guttulatis, simplicibus, 12 \approx 4, hyalinis.

Hab. in caulibus Dauci Carotæ, rarius, in Rhenogovia.

371. **Phoma Eryngii** Sacc. et Roum. Reliq. Lib. IV. n. 78. — Peri- 750
theciis epidermide immutata velatis, globosis, obtuse papillatis;
ostiolo vix emergente, $\frac{1}{5}$ mill. diam.; sporulis cylindræis, utrin-
que rotundatis, medio leniter coarctatis, 12-13 \approx 3, hyalinis.

Hab. in caule Eryngii, in Gallia et Germania.

372. **Phoma complanata** (Tode) Desm. Exs. Mich. II. p. 337, *Sphaeria* 751
complanata Tode Meck. II. p. 21. — Peritheciis erumpenti-super-
ficialibus, majusculis, $\frac{1}{2}$ mill. diam., mox compresso-umbilicatis;
ostiolo papillato; contextu parenchymatico, atrofuligineo, solidius-
culo; sporulis oblongis, curvulis, 5-6 \approx 2-2 $\frac{1}{4}$, biguttulatis, hyalinis.

Hab. in caulibus emortuis Heraclei, Rhinanthi, Ange-
licæ etc., in Suecia, Gallia, Germania, Italia et in Amer. bor.

373. **Phoma caulographa** Dur. et Mont. Fl. Alg. et Mont. Syll. n. 978. 752
— Peritheciis oblongis, lineari-confluentibus, linea atra, caulem
penetrante circumscriptis; basidiis elongatis sporulas oblongas ful-
cientibus.

Hab. in caulibus exsiccatis semicorruptis Smyrnii Olusa-
tri, ad Bouzaréah (DURIET); in Chærophyllis temulento,
ad Sedanum in Gallia (MONTAGNE).

374. **Phoma Asteriscus** Berk. Ann. N. H. n. 394. — Peritheciis con- 753
vexis, brunneo-piceis, punctiformibus, margine pallidioribus; nu-
cleis sporularum strato celluloso obscuriore tectis; sporulis oblon-
go-ellipsoideis vel elongatis.

Hab. in caulibus emortuis Heraclei, in Britannia.

375. **Phoma decipiens** Mont. Fl. Chil. VII. p. 488. — Oblonga, atra, 754
elevata, marginata; peritheciis immersis, globosis, membranaceis,
pallidis, poro perforatis; sporulis oblongis, guttulis polaribus, con-
fluentibus, septum transversum mentientibus.

Hab. ad caulem Umbelliferæ, Monte la Leone in Chile.
(BERTERO).

376. **Phoma projecta** Cooke in Grevillea. — Peritheciis gregariis 755
erumpentibus, globosis, nigris, ostiulis prominulis epidermidem ni-
grificatam perforantibus; sporulis anguste ellipsoideis, 1-3-nuclea-
tis, 15 μ . longis.

Hab. in caulibus Umbelliferarum, in Britannia.

377. **Phoma eupyrena** Sacc. Mich. I. p. 526. — Peritheciis subgre- 756
gariis, depresso-conicis, $\frac{1}{4}$ mill. diam., innato-erumpentibus, per-
tuis; contextu fuligineo, conspicue parenchymatico; sporulis ovoi-
deis, $4 \approx 1\frac{1}{2}$, hyalinis (basidiis non visis).

Hab. in caulibus Solani tuberosi, in Gallia (BRUNAUD). —
Status *Pleosporæ* cujusdam.

378. **Phoma dulcamarina** Sacc. *Phoma Dulcamaræ* Thüm. Contr. 757
Myc. Lus. n. 569, nec Nits. — Peritheciis gregariis, parvulis, in-
terdum confluentibus, punctiformibus, fere emersis, nigris; sporu-
lis minutis, ellipticis, utrinque subrotundatis, sæpe uni-nucleatis,
achrois, $3 \approx 2$.

Hab. ad ramulos denudatos emortuosve Solani Dulcamaræ,
Choupal prope Coimbra in Lusitania (MOLLER).

379. **Phoma pampeana** Speg. Fung. Arg. Pug. IV. n. 278. — Peri- 758
theciis lenticulari-hemisphæricis, 180-200 μ . diam., densiuscule
sparsis, prominulis, primo tectis, dein erumpentibus vel cortice se-
cedente liberis, basi ligno late nigrificato semiinfossis, atris, sub-
carbonaceis, ostiolo minuto non vel vix papillulato pertuis, gla-
bris, atris; sporulis ellipticis, utrinque acutiusculis, $6-8 \approx 2-3,5$,
grosse 2-guttulatis, hyalinis; sterigmatibus simplicibus, concolo-
ribus, basi incrassatulis, $10-15 \approx 1,5$, fultis.

Hab. in ramulis dejectis putrescentibus Solani glauci in
uliginosis de la Pampa de Tuyú in Argentina. — Status spermo-
gonicus *Diaporthes* (Euporthe) *pampeanæ* Speg.

380. **Phoma Dulcamaræ** (Nits.) Sacc. Mich. II. p. 272. — Peritheciis 759
subcutaneis, gregariis, atris; sporulis fusoides, $8-10 \approx 2$, 2-guttu-
latis, hyalinis, basidiis filiformi-hamatis, $25 \approx 1\frac{1}{2}$, suffultis.

Hab. in caule Solani Dulcamaræ, in Italia boreali et in
Gallia. — Spermogonium *Diaporthes Dulcamaræ*.

381. **Phoma venenosa** Sacc. Mich. II. p. 94. — Peritheciis gregariis, 760
epidermide nigricante tectis, oblongis; sporulis oblongo-cylindra-
ceis, $7 \approx 2\frac{1}{2}$, basidiis filiformibus fultis.

Hab. in caulibus Daturæ Stramonii, Toulouse in Gallia
(ROUMEGUÈRE). — Spermogonium *Diaporthes*.

382. **Phoma importata** (Nits.) Sacc. Mich. II. p. 380. — Peritheciis 761
laxe gregariis, subcutaneis, vix erumpentibus, depresso-globosis,
 $\frac{1}{3}$ mill. diam., vix papillatis, griseo-nigris; sporulis tereti-fusoi-
deis, utrinque obtusiusculis, $7-8 \approx 2\frac{1}{2}-3$, biguttulatis, hyalinis, ba-
sidiis fasciculatis acicularibus, $18-20 \approx 2$, fultis.

Hab. in caulibus emortuis Lycii sinensis, in horto botanico

- Patavino (Bizzozero). — Certe *Diaporthes* (Tetrastaga) *importatæ* Nits. spermogonium.
383. **Phoma Tatulæ** Ksch. et Cooke Grevillea 1880, p. 18. — Spar- 762
sa, minima; peritheciis membranaceis, punctiformibus, fuscis; sporulis ellipticis, hyalinis, $6,5 \approx 4$.
Hab. in caulibus *Daturæ Tatulæ*, in Africa australi.
384. **Phoma silvatica** Sacc. Mich. II. p. 337. — Peritheciis grega- 763
riis, subcutaneis, prominulis, globulosis, 150μ . diam., ostiolo minuto; sporulis oblongo-cylindræis, minutis, $4 \approx 1$, utrinque rotundatis, 2-guttulatis, hyalinis.
Hab. in caulibus emortuis *Melampyri silvatici*, Rouen in Gallia (MALBRANCHE).
385. **Phoma acanthina** Sacc. et Roum. Mich. II. p. 335. — Perithe- 764
ciis dense gregariis, subcutaneis, globoso-depressis, pertusis, 150μ . diam.; sporulis oblongis, leniter curvis, utrinque obtusiusculis, $16-18 \approx 6-7$, nubiosis, hyalinis; basidiis filiformibus, sesquilongioribus suffultis.
Hab. in caulibus *Acanthi mollis* culti, Montauban in Gallia.
386. **Phoma cordobensis** Speg. Fung. Arg. Pug. II. n. 95. — Peri- 765
theciis dense sparsis, minutis, $100-110 \mu$. d., lenticulari-globosis, tectis, prominulis, atris, tenui-membranaceis, contextu minutissime parenchymatico, fuligineo, ostiolo impresso pertusis; sporulis ellipticis, quandoque inæquilateralibus, utrinque obtusis ac 1-guttulatis, $5-8 \approx 2-4$, hyalinis.
Hab. in caulibus emortuis *Privæ levis*, in herbosis prope Cordoba in Argentina.
387. **Phoma nitidula** Sacc. Mich. II. p. 96. — Peritheciis gregariis, 766
epidermide nitida velatis, globoso-depressis, $\frac{1}{4}$ mill. diam.; sporulis fusoides, $10-11 \approx 2-2\frac{1}{2}$, 2-guttulatis, hyalinis, basidiis paulo longioribus, $15 \approx 1$, suffultis.
Hab. in caulibus *Scrofulariæ nodosæ*, in Gallia (LETENDRE). — Spermogonium *Diaporthes*.
388. **Phoma errabunda** Desm. Ann. Sc. Nat. 1849, p. 282. — Peri- 767
theciis globoso-depressis, 200μ . diam., pertusis, nigris, nitidulis, $\frac{1}{4}$ mill. diam., contextu parenchymatico distincto, fuligineo; sporulis perexiguis, ovoideis, $3-4 \approx 1\frac{1}{2}$, hyalinis.
Hab. in caulibus *Verbasci Thapsi*, thapsiformis, nigri, in Gallia, Britannia, Belgio et Germania.
389. **Phoma Veronicæ** Roum. Fungi Gallici exsic. cent. XXX. Revue 768
Mycolog. Ann. VI. p. 160. — Peritheciis innatis, numerosis, densis,

convexo-rotundatis, nigris, poro pertusis; nucleo albo; sporulis ovoideis, $5 \approx 2,5$, hyalinis, non guttulatis; basidiis

Hab. in caulibus siccis *Veronicæ spicatae*, Grand Quevilly (Seine infer.) in Gallia.

390. **Phoma Phlogis** Roum. Fungi Gallici exsic. cent. XXX. Revue 769
Mycolog. Ann. VI. p. 160. — Peritheciis aggregatis, numerosis, conicis, basi depressis, nigris, epidermide nigro-nebulosa tectis; nucleo albido; sporulis cylindricis, utrinque obtusis, $4-5 \approx 1,5-2$, hyalinis, 2-guttulatis; basidiis

Hab. in caulibus siccis *Phlogis Drummondii*, Grand Quevilly (Seine infer.) in Gallia (LETENDRE).

391. **Phoma verbascicola** (Schw.) Cooke in Rav. F. Amer. n. 141, 770
Sphæria verbascicola Schw., Sacc. Syll. II. p. 428. — Peritheciis tectis, globoso-depressis, dein collapsis, centro pertusis; sporulis ellipsoideis, hyalinis, $4-4,5 \mu$. longis.

Hab. in caulibus *Verbasci Thapsi* et aff., in Carolina et Pennsylvania.

392. **Phoma Phlomidis** Thüm. Pilzfl. Sibir. n. 788. — Peritheciis gre- 771
gariis, submagnis, epidermide pertusis, conicis, nitido-atris, semiimmersis; sporulis bacillari-fusiformibus, utrinque rotundatis, subrectis vel arcuatulis, continuis, bi-quinquenucleatis, hyalinis, $10-12 \approx 2-2,5$.

Hab. in caulibus emortuis *Phlomidis tuberosæ*, prope Minussinsk in Sibiria asiatica.

393. **Phoma Sceptri** Karst. Hedw. 1884, p. 59. — Peritheciis gre- 772
gariis, subcutaneis, orbicularibus aut anguloso-vel oblongato-rotundatis, applanatis, astomis vel ostiolo subpapillato, contextu celluloso, $3-5 \mu$. lat.; sporulis elongatis, solito rectis, utrinque obtusis, hyalinis, $5-7 \approx 1-2$.

Hab. ad caules emortuos *Pedicularis Sceptri-Carolini*, in Lapponia rossica extrema prope Subori.

394. **Phoma Marrubii** (D. et M.) Sacc. *Sphæronæma Marrubii* Dur. 773
et Mont. Fl. Alg. p. 530. — Caulicula, innato-erumpens, gregaria; peritheciis hemisphæricis, $\frac{1}{5}$ mill. diam., tandem vertice conico, denudatis, atris, opacis, poro pertusis, intus corneis; globulo sordide albo; sporulis oblongis sub-binucleatis, 10μ . long., hyalinis.

Hab. in caule *Marrubii hispanici*, prope Oran in Algeria (DURIÉU).

395. **Phoma polygramma** (Fr.) Sacc. *Sphæria polygramma* Fr. S. M. 774
 II. p. 432, *Sphæropsis polygramma* Fr. S. Veg. Sc. p. 419. —
 Tecta; peritheciis prominulis seriatis, subconfluentibus, in maculas
 late effusas dispositis, albofarctis, apice umbilicatis.
Hab. in caulibus Ballotæ nigræ, in Suecia et Germania.
 — Analoga cum *Phoma nebulosa*. Stroma nullum. Perithecia pro-
 minula, ut facile superficialia crederes, minuta, globoso-depressa,
 mollia, astoma, nigra, nitida, sæpe in maculas eleganter effigura-
 tas, scripturam tenuissimam referentes, aggregata. — v. **albicans**
 Fr.: peritheciis gregariis epidermidem elevatam exalbicantibus. In
 durissimo caule. — v. **scripta** Fuck. In caulibus Galeopsidis
 Tetrahit. — v. **Plantaginis**. In scapis Plantaginis lanceo-
 latæ. — Cfr. *Sphærella polygramma* Syll. I. p. 521.
396. **Phoma phyllostictea** Sacc. et Penz. Mich. II. p. 618. — Peri- 775
 theciis gregariis, epidermide velatis, globoso-lenticularibus, 100-
 110 μ . diam., pertusis; sporulis perexiguis, oblongo-teretiusculis,
 utrinque rotundatis, subrectis, 3,5 \approx 1,5, hyalinis.
Hab. in caule putrescente Ballotæ, Alais (bords du Gardon)
 in Gallia (THERRY).
397. **Phoma Betonicæ** Sacc. *Rhaphidosporæ Betonicæ* spermogonium 776
 Thüm. F. Austr. n. 16. — Peritheciis atris, subrotundis; sporulis
 elongato-ellipticis, 4-guttulatis, hyalinis.
Hab. in caulibus emortuis Betonicæ hirsutæ rarissime,
 prope Budweis in Bohemia (KIRCHNER).
398. **Phoma montana** Speg. Mich. I. p. 482. — Peritheciis subepi- 777
 dermicis, erumpentibus, membranaceo-carbonaceis, 110-150 μ . d.,
 sublenticularibus; sporulis fusoidis, utrinque acuminatis, nubiloso-
 granulosis, non vel 2-guttulatis, 6-10 \approx 1½-2.
Hab. in ramis emortuis Saturejæ montanæ, Susegana in
 Italia boreali.
399. **Phoma denigrata** Desm. 22 Not. pag. 6. — Peritheciis sparsis, 778
 majusculis, convexis, nigris, epidermide atrata tectis, dein erum-
 pentibus, subinde circumscisso-deciduis; ostiolo papillato, nitido;
 nucleo griseo; sporulis fusoidis, 10-12 \approx 3½-4, 2-guttulatis; ste-
 rigmatibus hamatis, 20-24 \approx 1, fultis.
Hab. in caule atrato putrido Prunellæ vulgaris, in Gal-
 lia et Italia. — Spermogonium *Diaporthes Desmazierii* Niessl.
400. **Phoma multipunctata** Sacc. Mich. II. pag. 275. — Peritheciis 779
 dense et late gregariis, epidermide velatis, atris, globoso-depres-
 sis, ¼ mill. diam.; sporulis oblongo-ellipsoideis, utrinque obtusius-

culis, $6-7\frac{1}{2} \approx 2-3$, 2-guttatis, hyalinis; basidiis filiformibus, hamatis, $20-22 \approx 1-1\frac{1}{2}$, pluriguttulatis, hyalinis.

Hab. in caulibus emortuis Lamii, Padova in Italia boreali.
— Spermogonium *Diaporthes*.

401. **Phoma Stigma** Cooke et Harkn. in Grevillea n. 64. — Cauli- 780
cola; peritheciis minutis, sparsis vel subgregariis, punctiformibus, semiimmersis, poro pertusis; sporulis ellipticis, continuis, hyalinis, $6 \approx 3$.

Hab. in caulibus Portulacæ, in California.

402. **Phoma exserta** Thüm. Myc. Univ. n. 95. — Peritheciis globosis, 781
atris, exsertis, dense gregariis; sporulis ellipsoideis, binucleatis, hyalinis, minimis.

Hab. in caulibus foliisque aridis Melandryii noctiflori, Bayreuth in Bavaria (Dr. WALTHER).

403. **Phoma collabens** Dur. et Mont. Syll. n. 984. — Peritheciis elli- 782
ptico-subrotundis, primo epidermide tectis, dein erumpenti-prominulis, atris, nitidis, umbilicato-collabentibus, poro minimo pertusis; sporulis ovoideis, hyalinis.

Hab. in caule foliisque Minuartiæ campestris et M. montanæ, in Algeria occidentali.

404. **Phoma intermedia** Sacc. F. V. N. ser. IV. 9. sub n. 21. — Pe- 783
ritheciis sphæroideis, rugulosis, inter corticem lignumque nidulantibus, aterrimis, nucleo fusco foetis; sporulis breve fusoides, utrinque acutis, $6 \approx 2,5$, crasse 2-guttatis, hyalinis; basidiis filiformihamatis, $20 \approx 1\frac{1}{2}$.

Hab. in caulibus Saponariæ, in Italia boreali, socia *Diaporthe intermedia* Sacc., cujus est status spermogonicus.

405. **Phoma Causcoræ** Rabenh. Hedw. 1878, p. 176. — Peritheciis 784
punctiformibus, atris, gregariis, epidermide velatis; sporulis oblongo-fusiformibus, guttulatis, $5-7 \approx 2$, hyalinis.

Hab. in caule Causcoræ decussatæ, in India orient. (KURZ).

406. **Phoma striæformis** Dur. et Mont. Alg. p. 603. Syll. n. 977. — 785
Peritheciis ovoideis, subaggregato-seriatis, innato-erumpentibus, atris, opacis, ostiolo conspicuo instructis seu perforatis; basidiis brevibus sporulas oblongas fulcientibus.

Hab. in ramis dejectis Sambuci nigræ, ad Flenzen, nec non in caulibus Ricini etc., apud Alger (DURIEU), Coimbra (MOLLER), in ramis demum decorticatis Sambuci nigræ, Toulouse in Gallia (ROUMÈGUÈRE). — Perithecia in striolas hysteriaceas hinc inde arcte digesta, globulosa, pertusa; sporulæ $6-7 \approx 3$, 2-guttulatæ, hyalinæ,

brevi stipitatae. — v. **hysteriola** Sacc. Mich. II. pag. 93: sporulæ 7-8 \approx 2½-3, 4-guttulatae, longius stipitatae; perithecia similia. In caule Dipsaci, Rumicis Acetosæ et Papaveris somniferi, Saintes, Rouen in Gallia.

407. **Phoma ebulina** Sacc. et Schulz. Micr. Slav. n. 40. Schulz. Ill. 786
Fung. Slav. n. 703. — Ut *Phoma Ebuli*, sed sporulis ovoideo-oblongis, utrinque obtusiuscule attenuatis, biguttulatis, hyalinis, 6-12 μ . longis.

Hab. in caule Sambuci Ebuli, prope Vinkovce. — Probabiliter status spermogonicus *Diaporthes* cujusdam.

408. **Phoma ebulicola** Sacc. et Schulz. Micr. Slav. n. 41. Schulz. Ill. 787
Fung. Slav. n. 702. — Peritheciis ut in *Phoma Ebuli*; sporulis 5-10 μ . longis, hyalinis, cylindraceutis, curvulis.

Hab. in caule Sambuci Ebuli pr. Vinkovce.

409. **Phoma Ebuli** Schulz. et Sacc. Micr. Slav. n. 39. Schulz. Ill. Fung. 788
Slav. n. 701. — Peritheciis globosis, epidermide velatis, subastomis, 0,2 mill. diam., intus albidis; sporulis ovatis v. oblongis, hyalinis, perexiguis, 1,5-2,5 μ . longis.

Hab. in caule Sambuci Ebuli, pr. Vinkovce.

410. **Phoma Lobeliæ** B. et Br. F. of Ceyl. n. 802. — Pustulis epidermide alba tectis, demum emersis; sporulis ellipticis, 3,5-4 μ . longis.

Hab. in *Lobelia nicotianæfolia*, Nuwara Eliya in Ceylon.

411. **Phoma Heuffelii** (B. et C.) Sacc. *Sphæropsis Heuffelii* B. et C. Exot. Fungi, pag. 280. — Peritheciis globosis, demum liberatis, basi floccis brunneis cinctis; sporulis oblongis, hyalinis, subinde curvulis, 16-17 μ . longis.

Hab. in caulibus vivis *Lobeliarum*, in India occid. (SCHWEIN).

412. **Phoma devastatrix** B. et Br. Ann. N. H. n. 813. — Peritheciis perexiguis, punctiformibus, nigris, globosis, poro pertusis; sporulis oblongis, hyalinis, 2-3-guttulatis, 8-10 μ . longis.

Hab. in *Lobeliis* cultis in hortis, quibus damnum maximum affert, in America boreali.

413. **Phoma Spirææ** Desm. Observ. crypt. 1830, p. 13. — Peritheciis epidermidem sublevantibus, minimis, numerosis, suborbicularibus, convexis, nigris, nitidis, pertusis; sporulis ovato-oblongis, 10-12 μ . longis, utrinque 1-guttatis, hyalinis.

Hab. in caulibus *Spirææ Arunci*, in Gallia. — «Sporulæ a me visæ fusoideæ, 10 \approx 3, 2-guttulatae, hyalinæ, basidiis bacillaribus subæquilongis suffultæ».

414. **Phoma herbarum** West. Exs. 965, Mich. II. p. 92. — Perithe- 793

ciis gregariis, epidermide initio velatis, globoso-depressis, papillulatis, nigris; sporulis ovoideis vel ovoideo-oblongis, plerumque 2-guttulatis, hyalinis, 6-11 \approx 3-4, basidiis brevissimis suffultis.

Hab. in caulibus herbarum fere omnium in Europa tota, Amer. bor., Sibiria asiatica. — Habentur plurimæ formæ: **Thulensis** Karst. Hedw. 1884, p. 39: perithecia 90-100 μ . diam.; sporulæ rectæ 7-10 \approx 10, eguttulatæ. In caulibus *Pedicularis*, Thule. — **Dipsaci**: spor. 8-9 \approx 3-4, 2-guttulatæ, hyalinæ. — **Mercurialis**: spor. 6-7 \approx 2 $\frac{1}{2}$, lenissime curvæ, 2-guttulatæ. — **Sambuci nigræ**: spor. 6-8 \approx 3-3 $\frac{1}{2}$, curvulæ. — **Solidaginis**: spor. 7-9 \approx 3-4, rectæ. — **Aristolochiæ Siphonis**: spor. 7 \approx 4-4 $\frac{1}{2}$. — **Valerianæ**: spor. 6 \approx 3 $\frac{1}{2}$. — **Antirrhini**: spor. 8-9 \approx 3 $\frac{1}{2}$. — **Galiorum**: spor. ovato-oblongæ 2-guttulatæ, hyalinæ, basidiis brevissimis suffultæ, 8 \approx 3. — **Marrubii**: spor. 8-10 \approx 3. — **Absinthii**: spor. 10 \approx 3-4. — **Urticæ**: spor. 7 \approx 4, nec non **Verbenæ**, **Lactucæ**, **Helichrysi**, **Brassicæ**, **Hyoscyami**, **Euphrasiæ**, **Humuli**: sporulæ 6-7 \approx 2 $\frac{1}{2}$ -3; perithecia 110-120 μ . diam. — **Rubi**: spor. 7 \approx 3 $\frac{1}{2}$ -4. — **medicaginea**: perith. 200 μ . diam., contextu rufo-fuligineo; spor. 5-6 \approx 3, leniter curvæ. — **Medicaginis** Fuck. Symb. 134: sporulæ oblongæ rectæ, 10 \approx 3, 1-2-guttulatæ. — **Catalpæ capsularum**: spor. 7-8 \approx 3 $\frac{1}{2}$. — **Dahliæ**: spor. 7-8 \approx 4, 2-guttato-nubilosæ. — **Calystegiæ**: spor. 7-8 \approx 2 $\frac{1}{2}$, curvulæ, 2-guttulatæ. — **Fœniculi**: spor. 6-7 \approx 3 $\frac{1}{2}$ -4, curvulæ. — **Phytolaccæ**: spor. 6 \approx 3 $\frac{1}{2}$, rectiusculæ. — **Schoberia**: spor. 7-9 \approx 3-3 $\frac{1}{2}$, curvulæ, 3-guttulatæ; perithecia conoidea. — **Salicariæ**: spor. 8-9 \approx 3-3 $\frac{1}{2}$; perithecia depresso-conoidea, 150 μ . diam. — **Blattariæ**: spor. 10-12 \approx 4, rectiusculæ 2-4-guttulatæ; perithecia globoso-depressa 90-100 μ . diam. — **Capparidis**: spor. 7-8 \approx 4, minute 2-guttulatæ; perithecia globoso-depressa 100 μ . diam. — **Lilacis**: spor. 7 \approx 4, curvulæ. — **Phlæi**: spor. 10-12 \approx 3 $\frac{1}{2}$ -4, rectiusculæ, eguttulatæ; perithecia globoso-depressa $\frac{1}{4}$ mill. diam. — E formis modo enumeratis sequentes: *Phoma Schoberia*, *Blattaria* et *Phlæi*, ut satis desciscentes distingui possent.

415. **Phoma acuta** Fuck. Symb. myc. p. 125, Mich. II. p. 93. — Pe- 794

ritheciis globosis majusculis, initio velatis, dein denudatis; ostiolo acute conoideo; sporulis oblongis, 4 \approx 1 $\frac{1}{2}$, 2-guttulatis, hyalinis.

Hab. in caulibus *Urticæ*, *Scrofulariæ*, *Ballotæ*, in Britannia, Germania, Italia, Gallia et in Amer. bor. — *Aposphaeria acuta* Berk Outl. 315 huc verisimillime spectat. — ***Ph. amplior** S. et R.; sporulis longioribus, nempe 7 \approx 2; peritheciis quoque

- paulo majoribus, nempe $\frac{1}{2}$ mill. diam. In caule Fæniculi, in Gallia et Germania.
416. **Phoma bacillaris** Sacc. Mich. II. p. 273. — Peritheciis subgre- 795
gariis, globoso-conicis, subcutaneo-erumpentibus, $\frac{1}{6}$ mill. diam.,
pertusis, intus pallidis; sporulis cylindræis, leniter curvis, $15 \approx 2$,
utrinque obtusis, sub-4-guttulatis, hyalinis, basidiis filiformibus
simplicibus furcatisve, $15-16 \approx 2$, suffultis.
Hab. in caule Aconiti Napelli, Cichorii et Arabidis
Thalianæ, in Gallia; et in caule Medicaginum, in Italia bo-
reali. — Affinis quoque *Phomæ ancipiti* Sacc., quæ præcipue pe-
ritheciis depressis, majoribus differt.
417. **Phoma Berkeleyi** Sacc. F. V. N. ser. II. p. 306, sub n. 20, et 796
ser. V. p. 200. — Peritheciis minutis, innato-superficialibus, sphæ-
roideis, papillulatis; sporulis cylindræis, $8-10 \approx 2$, biguttulatis,
hyalinis (sed coacervatis dilutissime luteolis).
Hab. in caulibus Lappæ, Lathyri, Galeopsidis etc., in
agro Tarvisino, socia *Phomatospora Berkeleyi*, cujus status sper-
mogonicus videtur.
418. **Phoma exigua** Desm. Exs. n. 1869. — Peritheciis copiosis, 797
sparsis v. approximatis, minutis, globosis, poro pertusis, epidermi-
de tectis, brunneis, dein nigris; nucleo albido; sporulis ovoideis,
exiguis, hyalinis, $5-7 \mu$. longis.
Hab. in caulibus folisque Polygoni tatarici, Lini et Sam-
buci, in Gallia, Britannia et Belgio. — Var. **Ranunculorum** Desm.:
peritheciis sæpe ovatis; sporulis minoribus, $3-4 \mu$. longis. In foliis
Ranunculorum in Gallia.
419. **Phoma Epilobii** Preuss Hoyersw. n. 282. — Macula subrotun- 798
do-diformi, ambiente lævigata, uniformi; peritheciis piceis, cel-
lulosis, albo-farctis, apice sæpe depressis; sporulis subfusiformibus,
plus minus apice rotundatis, albis, guttulis oleosis repletis.
Hab. in caule Epilobii angustifolii, Hoyerswerda.
420. **Phoma œnotherella** Sacc. Mich. I. p. 524. — Peritheciis gre- 799
gariis, tectis, lenticularibus, pertusis, 110μ . diam.; contextu cir-
ca ostiolum subfimbriato pallidiore; sporulis ovatis v. subrenifor-
mibus, $7 \approx 4$, hyalinis (basidiis non visis).
Hab. in caule *Ænotheræ* biennis, Rouen in Gallia (LE-
TENDRE).
421. **Phoma Ænotheræ** Sacc. Mich. I. p. 524. — Peritheciis subcu- 800
taneis, globoso-lenticularibus, late pertusis, 140μ . diam., grega-

riis; sporulis oblongis, deorsum attenuatis, $8 \approx 2$, 2-guttatis, hyalinis, basidiis filiformibus, $20 \approx 2$, sursum acutioribus suffultis.

Hab. in caule *Ænotheræ* biennis, Rouen in Gallia (LE-TENDRE).

422. **Phoma nebulosa** (Pers.) Mont. Berk. Outl. p. 314. *Sphæria nebulosa* Pers. Syn. p. 31, *Sphæroopsis nebulosa* (Pers.) Fr. S. M. II. p. 430. — Tecta; peritheciis minimis gregariis, maculas griseas interruptas inæqualiter lineatas efformantibus; ostioliis promi- 801
nulis subacutis; sporulis oblongo-ovoideis, 2-guttulatis, hyalinis.

Hab. in caulibus *Petroselini*, *Solani*, *Phlogis*, *Pastinacæ*, *Malvæ*, *Urticæ*, *Cruciferarum* etc., in Germania, Britannia, Suecia, Gallia, Italia, Belgio, America boreali, nova Zelandia. — Maculis griseis forma et magnitudine variis, e crustula subcuticulari nigra ortis, facile dignoscitur: perithecia admodum pusilla, inter se libera et irregulariter seriata. — ***Althææ** Sacc. In caulibus *Althææ* off. in Gallia. Perithecia punctiformia, 80
 μ . diam.; sporulæ oblongatæ, $7-8 \approx 1\frac{3}{4}-2$, hyalinæ.

423. **Phoma oleracea** Sacc. Mich. I. p. 91. — Peritheciis sparsis, 802
globoso-depressis, papillulatis, $\frac{1}{4}-\frac{1}{3}$ mill. diam., initio velatis; sporulis oblongo-subcylindræis, medio quandoque subconstrictis, utrinque obtusiusculis, $5-6 \approx 2$, 2-guttulatis, hyalinis.

Hab. in caulibus *Brassicæ oleracæ*, in Gallia, sicut et varietates sequentes. — Affinis, sed non identica cum *Ph. herbarum* West., a qua sporulis angustioribus differt. — Var. **Antirrhini**: sporulis, $4-5 \approx 1\frac{1}{2}-2$. — v. **Urticæ**: sporulis $5-6 \approx 2$. — v. **Dipsaci**: sporulis $5 \approx 1\frac{1}{2}$. — v. **Scrophulariæ**: sporulis $5 \approx 2$. — v. **Solidaginis**: sporulis $5-6 \approx 1\frac{1}{4}$, curvulis. — v. **Helianthi tuberosi**: sporulis $5 \approx 2$, rectis.

424. **Phoma punctata** Speg. Revue myc. II. p. 161. — Peritheciis ma- 803
jusculis $150-180 \mu$. diam., lenticularibus, subepidermicis, in matrice late dealbata nidulantibus, epidermidi superne adnatis atque atro maculantibus; sporulis hyalinis, ellipticis, non vel 2-guttulatis, utrinque obtusis, $8 \approx 3-4$.

Hab. ad caules dejectos putrescentes *Cucurbitacæ* vel *Borraginæ* cujusdam, S. Vincent insula Africae.

425. **Phoma melæna** (Fr.) Mont. et Dur. Alger., Kickx Fl. I. p. 437. 804
Sphæria melæna Fr. S. M. II. p. 431 p. p. — Indeterminata, ambiente effusa, epidermide atrata tecta; peritheciis seriatis, albofarctis, subastomis; sporulis ellipticis, obtusiusculis, enucleatis, hyalinis ($5-6 \approx 3$ in forma *Silenes*).

Hab. in caulibus exsiccatis Lathyri, Ervi, Astragali, Viciæ, Medicaginum, Silenes, in Suecia, Gallia, Germania, Sibiria, Belgio, Italia. — Nudo oculo caules modo undique atro-inquinati apparent; sed his dissectis observantur perithecia subglobosa, inter se libera, secundum fibras caulis seriata, stromate effuso atro conjuncta, leviter prominula, subglobosa, demum pertusa. — *Phoma melæna* Pr. Hoyer. n. 280, forte eadem species est. *Sphærella melæna* (Syll. I. p. 513) est probabiliter status ejusdem ascophorus.

426. **Phoma subordinaria** Desm. 17 Not. p. 12. — Peritheciis minutis, $\frac{1}{4}$ - $\frac{1}{2}$ mill. diam., numerosis, subseriatis, ovatis, convexis, intus sordidis, epidermide tectis; ostiolis minutis, nudis, dein deciduis; sporulis oblongis, 7 μ . longis, biguttulatis, hyalinis.

Hab. in scapis siccis Plantaginis lanceolatæ, in Gallia, Italia, Belgio, Britannia. — Spermogonium *Diaporthes adunca* (Desm.).

427. **Phoma Menispermi** Peck Rep. on the St. Mus. N. Y. — Peritheciis minutis, sparsis, prominulis, atro-nitidulis, subcutaneis, dein erumpentibus; sporulis minutis.

Hab. in caulibus emortuis Menispermi canadensis, Greenbush in America boreali. — Perithecia denique secedentia foveolasque albas linquentia. An eadem ac *Ph. sarmenticia* Sacc.?

428. **Phoma sarmenticia** Sacc. Mich. II. p. 94. — Peritheciis gregariis, tectis, oblongis; sporulis oblongis, 8-10 \approx 2-2 $\frac{1}{4}$, 2-guttatis, basidiis uncinatis, 20 \approx 1, fultis.

Hab. in sarmentis Menispermi canadensis, in horto botanico Rothomagensi in Gallia (MALBRANCHE). — Spermogonium *Diaporthes*

429. **Phoma inconspicua** Speg. Nov. Add. n. 146. Mich. II. p. 273 (nec Desm. Cfr. *Aposphæria*). — Peritheciis minutissimis 100 μ . diam., globoso-lenticularibus, subepidermicis, ostiolatis, prominulis, atris, contextu membranaceo-parenchymatico, olivaceo-fuligineo; sporulis minutis, numerosis, hyalinis, 4-6 \approx 2-3.

Hab. in scapis floralibus emortuis Droseræ rotundifoliæ, in sphagnetis alpinis silvæ Cansiglio in Italia boreali.

430. **Phoma alpina** Speg. Nov. Add. n. 145. Mich. II. p. 272. — Peritheciis lenticularibus, primo epidermide tectis, dein liberis, atris, 120-150 μ . diam., ostiolo parum prominulo donatis, parenchymatico-membranaceis; sporulis ellipticis vel elliptico-ovoideis, hyalinis, 3-5 \approx 1 $\frac{1}{2}$ -2.

Hab. in scapis dejectis putrescentibus *Saxifragæ Aizoon*, in alpinis M. Marmolada (Cadore) in Ital. bor. — Var. **planiuscula** Karst. Hedw. 1884, pag. 38. — Peritheciis subgregariis, epidermide tectis, orbicularibus, applanatis, papilla brevissima, latiuscula erumpente, atra, 200 μ . lat.; sporulis elongato-vel oblongato-fusoideis, rectis, eguttulatis, hyalinis, 3-4 \approx 1,5-2. Ad caules siccos *Saxifragæ hieraciifoliæ*, in Green Harbour Spetsberg.

431. **Phoma Dictamni** Sacc. *Rhaphidosporæ* (Ophioboli) *Dictamni* 810
Spermog. Fuck. Symb. p. 125. — Peritheciis tectis, subrotundis, atris, ostioliis cylindraceutis, perithecium æquantibus, prominulis; sporulis elongato-ellipsoideis, hyalinis, 4-guttatis.

Hab. in caulibus *Dictamni Fraxinellæ*, rarius pr. Gausalgesheim in Rhenogovia. — Ad *Sphæroncema* vergit.

432. **Phoma leptidula** Sacc. Mich. I. p. 522 (sub *leptidea*). — Peri- 811
theeciis subparallele gregariis, oblongis, subcutaneo-erumpentibus, $\frac{1}{2} \approx \frac{1}{6}$ mill. diam., subastomis; sporulis fusoideis, curvulis, 10-12 \approx 3, 3-4-guttulatis, hyalinis, basidiis filiformibus, sesquilongioribus, fasciculatis suffultis.

Hab. in caulibus *Hyperici Androsæmi*, prope Rouen in Gallia (LETENDRE).

433. **Phoma atrificans** Sp. Pug. Fung. Arg. III. n. 97. — Peritheciis gre- 812
gariis, fere totum corticem occupantibus, atris, lenticulari-globosis, 120-140 μ . d., carbonaceo-membranaceis, ostiolo impresso perforatis; sporulis ellipticis, v. ovoideis, hyalinis, simplicibus, 6-8 \approx 2.

Hab. in sarmentis emortuis *Araujæ albentis*, ubique vulgarissima in Argentina, regione Americæ merid.

434. **Phoma Centranthi** Sacc. Mich. II. p. 92. — Peritheciis dense 813
gregariis, epidermide tectis, globoso-depressis, $\frac{1}{6}$ mill. diam.; sporulis oblongis, 9 \approx $1\frac{1}{2}$ -2, eguttulatis, hyalinis.

Hab. in caulibus *Centranthi rubri*, Toulouse in Gallia. — Affinis *Ph. herbarum* West.

435. **Phoma Rubiæ** Sacc. Mich. I. pag. 526. — Peritheciis subgre- 814
gariis, epidermide æquali velatis, globoso-lenticularibus, $\frac{1}{4}$ - $\frac{1}{3}$ mill. diam.; sporulis oblongis, quandoque curvulis, 8 \approx $2\frac{1}{2}$ -3, 2-guttulatis, hyalinis, basidiis cylindro-conicis, 15 μ . long. suffultis.

Hab. in caulibus *Rubiæ peregrinæ*, Saintes in Gallia (BRUNAUD).

436. **Phoma elliptica** Peck 27 Rep. p. 101. — Peritheciis initio epi- 815
dermide tectis, dein liberatis, sparsis, ellipsoideis, nigris; sporulis oblongo-ellipsoideis, hyalinis, biguttatis, 8-9 \approx 4.

Hab. in caule emortuo Galii borealis, West Albany in America boreali. — Perithecia subinde secedunt foveolamque albam nigro-limitatam relinquunt.

437. **Phoma Crucianellæ** (Dur. et Mont.) Sacc. *Sphæroopsis Crucianellæ* D. et M., Fl. Alg. p. 463. Syll. I. p. 826. — Erumpens, mox nuda; peritheciis pro ratione magnis ovoideis, sparsis aggregatisve, confluenti-subseriatis, atris, ostiolatis; ostiolo prominulo; sporulis linearibus, rectis aut curvulis, uno latere gibbosis (ascis diffluentibus?).

Hab. in caulibus Crucianellæ maritimæ, La Calle in Algeria (DURIEU).

438. **Phoma Cacti** Berk. in Welw. Pl. Port. p. 12. — Maculis sub-orbicularibus vel effusis; peritheciis majusculis, innato-prominulis; sporulis minutis, oblongo-ellipsoideis; basidiis filiformibus.

Hab. in caule Cacti peruviani, Lumiar et Coimbra in Lusitania. — Var. **Opuntiae** Sacc. Mich. I. p. 524. Peritheciis sublenticularibus, 100-110 μ . diam., pertusis; sporulis ovoideis, 5-7 \approx 4, hyalinis, basidiis brevissimis suffultis. In caule Opuntiae, Saintes in Gallia (BRUNAUD).

439. **Phoma torrens** Sacc. Miscell. Mycol. p. 26. — Peritheciis dense gregariis, plagas in plantis initio vivis magis magisque diffusas, arescendo griseo-ochraceas afficientibus, punctiformibus, globoso-hemisphaericis, 100-150 μ . diam., initio epidermide velatis, dein erumpentibus, vertice obtusiusculo pertusis; contextu parenchymatico fuligineo, solidiusculo; sporulis in basi sporigera subsessilibus, obovatis, 8-10 \approx 7, nunc minute pluriguttulatis, nunc crasse 1-2-guttulatis, hyalinis.

Hab. in Cereis, Echinocactis, Mammillariis cultis, quibus cutem mox urit et tandem mortem affert, in horto botanico Romano, ubi cum amico prof. PIROTTA legi auctumno 1883, nec non in hortis Patavinis. — Cum *Phoma Cacti* Berk. non comparanda. Sporulae saepe guttulis minutis farctae ascos polysporos fere imitantur.

440. **Phoma anthracina** Speg. F. Arg. Pug. IV. n. 274. — Peritheciis minutis, 100-110 μ . diam., conoideo-lenticularibus, atris, subcarbonaceis, densissime gregariis, saepissime confluentibus, matricem strato subcrustaceo atro hinc inde per corticem erumpente inquinantibus; sporulis ellipticis, quandoque subinaequilateralibus, utrinque obtuse rotundatis, non v. 2-guttulatis, 5-7 \approx 2, hyalinis.

Hab. in ramulis languidis Rhipsalidis sarmentaceae ad

- truncos *Erythrinæ Cristæ-galli* in paludibus, Ensenada in Argentina.
441. **Phoma Stapeliæ** Kalch. et Cooke Grev. 1880, p. 18. — Sparsa, 820
epidermide nigrificata tecta; peritheciis globoso-depressis; sporulis
arcte ellipticis, hyalinis, binucleatis, $10-12 \approx 3$.
Hab. in caulibus *Stapeliæ moschataæ*, in Africa australi.
442. **Phoma muralis** Sacc. Mich. II. p. 91. — Peritheciis epidermide 821
tectis, gregariis, globoso-depressis, $\frac{1}{5}$ mill. diam., papillulatis, con-
textu parenchymatico, fuligineo, solidiusculo; sporulis ellipsoideis,
 $6 \approx 5$, utrinque rotundatis, inordinate pluriguttulatis, hyalinis.
Hab. in caulibus emortuis *Sedi albi*, prope Rouen in Gal-
lia (MALBRANCHE).
443. **Phoma oculata** (Pr.) Sacc. *Sphærocista oculata* Preuss Hoyersw. 822
n. 310. — Pustulis gregariis minutis, rotundatis; peritheciis glo-
bosis, corneis, ad basin hyphis ligna penetrantibus vestitis; ostio-
lo acuto perforante; basidiis tenuibus, abbreviatis; sporulis subfu-
siformibus, utrinque rotundatis, biguttatis, guttulis oleo repletis,
hyalinis, albis.
Hab. in cortice *Sedi hybridi*, Hoyerswerda.
444. **Phoma Phytolaccæ** B. et C. North Am. F. n. 385. — Sub cu- 823
ticula dealbata oriunda, nitens; sporulis fusiformibus binucleatis,
 10μ . longis, hyalinis.
Hab. in caulibus *Phytolaccæ*, New Jersey et New York in
America boreali. — Sec. Peck. 33 Rep. pag. 23: perithecia de-
pressa, orbicularia v. oblonga, sæpe seriata, ostiolo instructa; spo-
rulae, $12-13 \mu$ longæ, 4-6-nucleatae.
445. **Phoma lirella** Desm. Ann. Sc. nat. 1849, pag. 281. — Innata, 824
erumpens, minuta, nigra, lineari-oblonga, 1 mill. long. $\frac{1}{4}-\frac{1}{3}$ mill.
cr.; stromate albido; peritheciis 3-5 exiguis, seriatis, poro pertu-
sis; sporulis stipitatis, $5-7 \mu$. long., 2-guttatis, hyalinis.
Hab. in ramis siccis denudatis *Vincæ minoris*, in Gallia.
446. **Phoma salsa** Sacc. Mich. I. p. 126. — Peritheciis gregariis pun- 825
ctiformibus, epidermide velatis erumpentibusque, globoso-depres-
sis, 100μ . diam., pertusis; contextu distincte celluloso, ochraceo-
fuligineo; sporulis cylindræis, lenissime curvis, $4 \approx 1$, utrinque ro-
tundatis, 1-guttulatis, hyalinis.
Hab. in ramis bracteisque *Salsolæ Kali*, ad Nord-canal pr.
Berolinum in Germania (P. MAGNUS).
447. **Phoma superflua** Sacc. Mich. I. p. 522. — Peritheciis gregariis, 826
punctiformibus, $80-90 \mu$. diam., epidermide velatis, minute pertu-

sis, contextu olivaceo-fuligineo; sporulis cylindræis, utrinque obtusis, sæpe curvis, 10-15 = 3-3½, 2-guttulatis, hyalinis (basidiis non visis).

Hab. in caule Scabiosæ Columbariæ, pr. Rouen in Gallia (LETENDRE). — *Sphærellam superfluam* habitu æmulans.

448. **Phoma sarmentella** Sacc. Mich. II. p. 618. — Peritheciis gregariis, subcutaneis, oblongis, atris; sporulis tereti-fusoideis, hyalinis, curvulis, obtusis, 5-6 = 2-3; basidiis bacillaribus sporula subduplo longioribus.

Hab. in sarmentis Humuli Lupuli, prope Rouen in Gallia (MALBRANCHE). — Spermogonium, ut videtur, *Diaporthes sarmenticiæ* Sacc.

449. **Phoma Durandiana** Sacc. et Roum. Reliq. Myc. Libert. Ser. V. n. 67. — Peritheciis gregariis, epidermide nigro-punctata tectis, globoso-depressis obtusis; sporulis oblongo-fusoideis, 2-guttatis, 7-9 = 2-3, deorsum tenuatis; basidiis bacillaribus, fasciculatis, subæquilongis.

Hab. in caule Rumicis, in Gallia et Germania. — Verisimiliter *Diaporthes maculosæ* Sacc. spermogonium.

450. **Phoma picea** (Pers.) Sacc. *Sphæropsis picea* (Pers.) Fr. S. v. Sc. p. 419. Fuck. Symb. p. 397. *Sphæria picea* Pers. Syn. p. 31. — Elongata, inæqualis, picea; peritheciis sparsis subdepressis, latentibus, astomis, demum pertusis.

Hab. ad caules Atriplicis patulæ, Hyperici perforati, Artemisiæ Verbenæ officinalis, in Germania, Sibiria, Suecia. Descriptionem sporularum non vidi. — Cfr. *Diaporthe picea* Syll. I. p. 648, cujus species hæc est verisimiliter spermogonium.

451. **Phoma atriplicina** West. Exs. n. 1233. — Peritheciis ovoideis, membranaceis, nigris, epidermide atrata tectis; ostiolo papillato; sporulis ovoideis, 2-guttulatis, hyalinis, 10 = 5.

Hab. in caulibus Atriplicis hortensis et A. Halimi, in Belgio et Gallia.

452. **Phoma Rheea** Cooke in Grevillea. — Sparsa, parvula; peritheciis globoso-compressis, tectis; sporulis ellipsoideis, utrinque nucleatis, 10 = 3.

Hab. in caulibus Bœhmeriæ niveæ, Assam in India.

453. **Phoma Urticæ** Schulz. et Sacc. Schulz Ill. fung. Slav. n. 700. — Peritheciis globosis depressis, gregariis, caule immersis v. subsuperficialibus, 0,14-0,4 mill. diam., intus pallidis, poro pertusis; sporulis oblongo-teretiunculis, hyalinis, 4-6 = 2.

Hab. in caule *Urticæ dioicæ*, in Italia, Hungaria, Sibiria.
An forma *Phomæ herbarum*? — Huc verisimiliter spectat *Cli-*
sosporium Urticæ Bon. Abhandl. p. 140.

454. **Phoma Janiphæ** (Thüm.) Sacc. Mich. II. p. 335. *Sphæropsis Ja-* 833
niphæ Thüm. in Flora 1878, p. 179. — Peritheciis subcarbona-
ceis, phomæformibus, dense gregariis, numerosissimis, oblongis vel
elliptico-orbiculatis, subplanis, pro ratione magnis, nigris; sporu-
lis ellipsoideis, utrinque obtuso-rotundatis, hyalinis, bi-trinuclea-
tis, nucleis majusculis; sterigmatibus brevibus, fasciculatis, hyali-
nis, filiformibus, $12 \approx 4-5$.

Hab. ad caules emortuos *Jatrophæ Janiphæ*, in Carolina
austr. (RAVENEL). — Forma **microspora** Roum. F. G. n. 718: spo-
rulis, $5 \approx 3$, ovoideis, 2-guttulatis. In caule *Jatrophæ Janiphæ*
cultæ, Collioure in Gallia (ROUMEGUÈRE).

455. **Phoma Ricini** (Cooke) Sacc. *Sphæropsis Ricini* Cooke Grev. 834
XII. p. 23. — Caulicola, sparsa; peritheciis atris, subglobosis, de-
mum depressis, poro pertusis; sporulis elongato-ellipticis, hyali-
nis, $20 \approx 5$.

Hab. in caule *Ricini communis*, in Carolina austr. Ame-
ricæ borealis (RAVENEL).

456. **Phoma macropyrena** Thüm. Contr. Myc. Lusit. n. 336. — Pe- 835
ritheciis submembranaceis, numerosis, subgregariis, irregulariter
orbiculatis et sæpe confluentibus, fere applanatis, cito liberis et
epidermide disrumpenti cinctis, opaco-nigris; sporulis numerosis,
typicis, cylindrico-ellipsoideis, utrinque rotundatis, simplicibus, cum
nucleis maximis, duobus, achrois vel subnebulosis, $8 \approx 3,5-4$.

Hab. ad caules emortuos *Ricini communis*, in horto bota-
nico, Coimbra in Lusitania (MOLLER).

457. **Phoma Euphorbiæ** Sacc. Mich. II. p. 339. — Peritheciis grega- 836
riis subcutaneis, oblongis, griseo-nigris; sporulis ovato-oblongis,
obtusiusculis, $7 \approx 3-3\frac{1}{2}$, 2-guttulatis, basidiis fasciculatis, acicula-
ribus, paulo longioribus suffultis.

Hab. in caulibus *Euphorbiæ Characiæ*, in Gallia australi.
— Spermogonium *Diaporthes Euphorbiæ* Cooke.

458. **Phoma cyclospora** Sacc. Mich. I. p. 370. — Peritheciis lenticu- 837
laribus, subcutaneis distincte et firme parenchymaticis, pertusis;
sporulis globulosis, v. quandoque obtuse angulosis, 1-3-pluriguttu-
latis, $5,5-6,5 \mu$. diam., hyalinis, basidiis cylindræis, $5 \approx 1,5$, facil-
lime deciduis fultis.

Hab. in caulibus emortuis *Euphorbiæ Cyparissæ*, Co-

- negliano in Italia bor., socia *Physalospora minutula* S. et S., cu-
jus forte spermogonium.
459. **Phoma microsperma** Preuss F. Hoyersw. n. 278. — Perithe- 838
ciis tenuibus lentiformibus, pertusis, epidermidi insertis; nucleo
pulposo; sporulis minutissimis, rotundatis, albis.
Hab. ad caules herbarum, Hoyerswerda.
460. **Phoma fusca** Preuss F. Hoyersw. n. 283. — Peritheciis tenui- 839
bus lentiformibus, pertusis subsuperficialibus, luteo-fuscis; nucleo
pulposo, albo; sporulis oblongis; medio unistriatis, albis.
Hab. ad caules dejectos herbarum, Hoyerswerda.
461. **Phoma Hysteropsis** Peck. et C. 33 Rep. St. Mus. New York p. 23 840
sub nom. *Ph. hysterellæ*). — Peritheciis immersis, prominulis, sub-
hysterioideis, epidermide tectis, atris, ostiolo papillulato; sporulis
ellipsoideis v. subfusoides, hyalinis, bi-guttulatis, 7-8 μ . longis.
Hab. in caulibus emortuis herbarum, Buffalo in America
boreali (G. W. CLINTON).
462. **Phoma irregularis** (B. et C.) Sacc. *Sphæropsis irregularis*, B. 841
et C. Cub. Fungi n. 563. — Peritheciis epidermide tectis, conve-
xis; sporulis irregularibus, subglobosis vel subclavatis, hyalinis,
7-8 \approx 5.
Hab. in caulibus herbarum minorum, in Cuba.
463. **Phoma hysteriiformis** Cooke F. of Texas p. 141. — Peritheciis 842
gregariis, atris, elongato-hysteriiformibus, basi applanatis; sporulis
ellipsoideis, hyalinis, binucleatis, 10-12 μ . longis.
Hab. in caule herbarum, Galveston, Texas (RAVENEL).
464. **Phoma catenulata** Preuss Hoyersw. n. 28. — Peritheciis gre- 843
gariis, semiinnatis, nigris, magni-papillatis, atris, tenuibus, longe
seriato-cellulatis, compositis; sporulis continuis, in series subcate-
natis, mucro involutis, oblongis, nucleum includentibus, albis.
Hab. in stipitibus herbarum majorum, Hoyerswerda. —
«Species dubia, ad *Phomam* vix pertinens».
465. **Phoma Preussii** Sacc. *Phoma cylindrispora* Preuss Hoyersw. 844
n. 26. — Peritheciis sphæricis, gregariis, immersis, tenuibus cel-
lulatis, atris; sporulis continuis, cylindricis, utrinque rotundatis,
albis.
Hab. in stipitibus majoribus herbarum, Hoyerswerda.
466. **Phoma rhodosperma** Preuss F. Hoyersw. n. 277. — Perithe- 845
ciis tenuibus lentiformibus, papillatis, epidermidi insertis; nucleo
pulposo, roseo; sporulis oblongo-cylindricis, utrinque rotundatis
albis.

Hab. ad caules herbarum, Hoyerswerda.

467. **Phoma caulicola** (Schw.) Sacc. *Sphæronæma caulicola* Schw. 846
Syn. Am. bor. n. 2143. — Peritheciis aggregatis, subdifformibus
aut sphæriæmorphis, nigris, rugosis, subcompressis, coronatis glo-
bulo nigro, intus albofaretis.

Hab. in caulibus vetustis ignotis, Bethlehem in Amer. bor.

B) Foliicolæ.

468. **Phoma tagana** Thüm. Contr. Myc. Lusit. n. 333. — Perithe- 847
ciis minutissimis, epiphyllis, dense gregariis, conico-emersis, atris
in macula orbiculari, arescendo-albicante, anguste violaceo-pur-
pureo-cincta; sporulis ellipsoideis vel ovato-ellipticis, utrinque ro-
tundatis, simplicibus, enucleatis, achrois, $5 \approx 2-2,5$.

Hab. in foliis vivis Centaurææ taganæ, Pinhal de Marro-
cos pr. Coimbra in Lusitania (MOLLER). — Habitus fere *Phyllo-*
stictæ, sed perithecia *Phomæ*.

469. **Phoma Jowana** Sacc. Mich. II. p. 574. — Peritheciis in macu- 848
lis adustis, subphyllachoroideis, gregariis, innato-prominulis, glo-
boso-depressis, ostiolo obsolete, solidiusculis, nigris; sporulis ovoi-
deis, $10-12 \approx 8$, crasse, 1-3-guttatis, hyalinis; basidiis fasciculatis,
acicularibus, $6-7 \approx 2$, hyalinis.

Hab. in foliis subvivi Asteris ptarmicoidis, Jowa in
America boreali ubi legit J. C. ARTHUR, et Asteris puniceæ,
White Mout. (FARLOW).

470. **Phoma Raui** (Peck) Sacc. *Sphæropsis Raui* Peck Bot. Gaz. 1878, 849
p. 34. — Maculis indefinitis, brunneis; peritheciis copiosis, grega-
riis, minutis, submembranaceis, nigris, $150-170 \mu$. diam.; sporulis
obovato-oblongis, hyalinis, $16-20 \mu$. longis.

Hab. in foliis vivis Artemisiæ scopulorum, in America
boreali.

471. **Phoma ferruginea** Sacc. Cfr. Fuck. Symb. App. II. p. 20 et Sacc. 850
Syll. I. p. 537. — Peritheciis sparsis, subsuperficialibus, ovato-
globosis, submajusculis, atris, apice pilis paucis concoloribus, pe-
ritheciis longitudine in acumen connatis instructis; sporulis cylin-
draceis, subrectis, continuis, $6 \approx 2$.

Hab. in foliis marcescentibus Artemisiæ vulgaris, socia
Sphærella ferruginea, cujus spermogonium est, in Rhenogovia. —
« An potius *Pyrenochæta?* ».

472. **Phoma Filaginis** West., Kickx Fl. Fl. I. p. 442. — Peritheciis 851

sparsis, minutis, copiosis, tectis, dein erumpenti-prominulis, matricis superficiem denigrantibus, globosis, atronitidis; ostiolo papillato; sporulis cylindræis, rectis, hyalinis, $5 \approx 1,3$.

Hab. in foliis *Filaginis arvensis*, in Belgio.

473. **Phoma sordida** Dur. et Mont. Alg. p. 607. Syll. n. 983. — Am- 852
phigena; peritheciis punctiformibus, maculari-confertis, prominulis, fusco-atris opacis, apice poro perforatis; sporulis minutissimis, ovato-oblongis, hyalinis.

Hab. in foliis *Othonnæ cheirifoliæ*, Constantine in Algeria (DURIEU).

474. **Phoma minutissima** Cooke in Grevill. — Maculis irregularibus, 853
nigricantibus; peritheciis semiimmersis, atris, punctiformibus, congestis; sporulis minimis, $4 \approx 2$.

Hab. in foliis *Liatris odoratissimæ*, Aiken in Carolina Americæ borealis.

475. **Phoma Hedysari** DR. et M. F. Alg. p. 608. Syll. n. 985. — 854
Epi-raro hypophylla; peritheciis hemisphæricis, atris, siccis, collapse-corrugatis, in maculam atram, fusco-marginatam congregatis; sporulis ovoideis, minutis, hyalinis.

Hab. in foliis *Hedysari coronarii*, Constantine in Algeria (DURIEU).

476. **Phoma leptothyrioides** Karst. Hedw. 1884, p. 58. — Perithe- 855
ciis gregariis, subcutaneis, mox nudis, sphæroideo-cupulatis, nitidis, astomis, 2μ . lat.; sporulis elongatis, utrinque acutatis, curvatis, $7-8 \approx 1,5$.

Hab. in pagina superiore foliorum emortuorum *Fragariæ*, in Mustiala.

477. **Phoma tricolor** (Dur. et Mont.) Sacc. *Sphæronæma tricolor* 856
Dur. et Mont. Fl. Alg. p. 579. — Foliicola, amphigena, sparsa; peritheciis innato-erumpentibus, globoso-ovoideis, atris, opacis, albo-farctis, poro pertusis; globulo fugaci pallide rubro; sporulis cylindricis obtusis, $5 \approx 2$.

Hab. in foliis emortuis *Diplotaxis vimineæ*, in deserto Tilleri nuncupato in Algeria (GUYON).

478. **Phoma effusa** Rob. Des. 22 Not. p. 8. — Epi-raro hypophylla, 857
subgregaria, dein effusa; peritheciis punctiformibus, intus albis, epidermide tectis, $\frac{1}{3}$ mill. diam.; ostiolis erumpentibus papillatis, quandoque halone alba cinctis; sporulis oblongis, obtusiusculis, circiter $7-5 \approx 2,5$.

Hab. in foliis siccis *Hellebori*, in Gallia.

479. **Phoma punctiformis** Desm. XVII. Not. p. 11. — Peritheciis an- 858
 phigenis, sæpius epiphyllis, numerosis, sparsis, rotundatis, convexis,
 nigro-fuscis, epidermide tectis, papillatis, dein poro pertusis, $\frac{1}{5}$
 mill. diam.; cirris pallide griseis; sporulis oblongis, inæqualibus,
 5-7 μ . longis, hyalinis.

Hab. in foliis emortuis *Lychnidis chalcædonicæ*, in
 Gallia.

480. **Phoma radiata** (Pr.) Sacc. *Gerulajacta radiata* Preuss Hoyersw. 859
 n. 313. — Peritheciis hemisphæricis, socialibus, atris, membrana-
 ceis; nucleo albo, mucoso; basidiis concentricis, longis, filiformi-
 bus, albis; sporulis ovatis, minutis, albis.

Hab. in foliis *Saponariæ*, Hoyerswerda.

481. **Phoma Massalongi** Speg. Rev. myc. IV. p. 79. — Peritheciis spar- 860
 sis, minutis, 100-120 μ . diam, punctiformibus, atris, ostiolo im-
 presso pertusis, subcarbonaceo-membranaceis; sporulis elliptico-cy-
 lindræis, sæpius curvulis, 4-5 = 1, 2-3-guttulatis, hyalinis.

Hab. in foliis languidis *Cherleriæ sedoidis*, Lac d'Oncet
 Hautes-Pyrénées et in *Alpibus italicis* (C. MASSALONGO).

482. **Phoma Violæ** West. Exs. n. 525, Kickx Fl. Fl. I. p. 442. — 861
 Peritheciis globulosis, levibus, in pustulas subrotundas minutas
 aggregatis, epidermide laciniata et circumcirca flavicante cinctis;
 ostiolo papillato, nitidulo, caduco; sporulis ovoideis perexiguis, bi-
 guttulatis, hyalinis.

Hab. in foliis *Violæ caninæ*, in Belgio. — «Sec. Kickx pe-
 rithecia in soris *Pucciniæ* enascuntur: an ergo *Darlucæ*?»

483. **Phoma Vincæ** (Curr.) Sacc. *Sphæropsis Vincæ* Curr. Simpl. 862
 Sphær. p. 333, Kickx Fl. Fl. I. p. 402. — Peritheciis globulosis,
 erumpentibus, prominulis, nigris, levibus, sparsis, copiosis, poro
 pertusis; nucleo albido; sporulis oblongo-ellipsoideis, hyalinis, 15-
 18 μ . longis.

Hab. in foliis emortuis *Vincæ majoris*, in Britannia et
 Belgio.

484. **Phoma Westendorpii** Tosq. et West. Not. V. p. 21. — Perithe- 863
 ciis copiosis, sparsis, innato-erumpentibus, sphæroideis, tandem
 collabescentibus, brunneo-rufis, dein nigricantibus; ostiolo papilla-
 to; sporulis ovoideo-oblongis, 10 = 3; basidiis tenellis, subramosis.

Hab. in foliis putrescentibus *Nupharis lutei*, pr. Ypres in
 Belgio. — Cum *Phoma Crepinii* (Mont.) comparanda species.

485. **Phoma Saxifragarum** West. Not. VI. p. 23. Mich. II. p. 617. 864

- Peritheciis gregariis, innato-erumpentibus, punctiformibus, globulosis, pertusis; sporulis oblongis, utrinque obtusiusculis, 6-7 \approx 2 $\frac{1}{2}$, interdum medio subconstrictis, biguttulatis, hyalinis.
Hab. in foliis languidis præcipue ad nervos Saxifragæ crassifoliæ cultæ in Belgio, Gallia et Germania.
486. **Phoma Debeauxii** Roum. Rev. Myc. IV. p. 216, t. XXXII f. G. 865
 — Peritheciis punctiformibus, $\frac{1}{6}$ mill. diam., copiosis, aggregatis, nigris, in macula subcirculari; sporulis hyalinis, exiguis, ovoideo-oblongis.
Hab. in pag. superiore foliorum languidorum *Statice oxylepidis*, Oran in Algeria (DEBEAUX).
487. **Phoma Letendrei** Sacc. Mich. I. p. 526. — Peritheciis epiphyllis, sparsis, erumpenti-superficialibus, lenticularibus, majusculis, $\frac{1}{2}$ - $\frac{2}{3}$ mill. diam., atro-nitentibus, subastomis; contextu parenchymatico, atro-fuligineo; sporulis fusoido-falcatis, utrinque acutis, 7-9 \approx 1 $\frac{1}{2}$, hyalinis, basidiis filiformibus, furcatis, 18-22 \approx 1, suffultis.
Hab. in pag. superiore foliorum *Lysimachiae Nummulariæ*, pr. Rouen in Gallia (LETENDRE).
488. **Phoma Jasiones** Thüm. Contr. Myc. Lus. n. 153. — Peritheciis gregariis, minutis, globosis, atris, in caulium partibus aridis vel in pagina inferiore foliorum flavescenti-arida; sporulis fere globosis vel globoso-ovoideis, achrois, enucleatis, 3-4 μ . longis.
Hab. in foliis caulibusque subviviis et languidis *Jasiones montanæ*, pr. Coimbra Lusitaniæ (MESNIER).
489. **Phoma Atomus** (Lév.) Auersw. Hedw. 1866, p. 192. *Sphæropsis Atomus* Lév. Ann. Sc. nat. — Peritheciis hypophyllis v. caulogenis, gregariis puncto minoribus, tectis, globosis, nigris; ostioliis erumpentibus, prominulis; sporulis minutissimis cylindræis, utrinque obtusis (Sec. Auersw.: sporulis cylindræis, 12 \approx 8, utrinque rotundatis, curvulis, biguttatis).
Hab. in foliis caulibusque *Rubiæ tinctoriæ* et *peregrinæ*, in Germania et Gallia.
490. **Phoma fragilis** (Mont.) Sacc. *Sphæropsis fragilis* Mont. Cent. VI. n. 41, p. 52, et Syll. n. 964. — Epiphylla; peritheciis sparsis, innato-erumpentibus, solitariis aut raro 2-3 aggregatis, globoso-ovatis, atris opacis, cuticulâ lacerata tectis, tandem basi circumscissa cupulam in foliis nigram linquentibus, albo-nucleatis; sporulis oblongis hyalinis, episporio vitreo fragili, endosporium granulatum dimittente.

Hab. in folio ejusdam Rubiaceæ(?) exoticæ (non in ramis Hederæ ut in Mont. Syll. n. 964).

III. *In fructibus et floribus Dicotyledonearum.*

491. **Phoma leguminum** West. Exs. n. 1135. — Peritheciis punctiformibus sparsis, copiosis, globulosis, nigris, innato-erumpentibus, poro pertusis; nucleo albido, dein sordido; sporulis ovoideis v. oblongo-ovoideis, $5 \approx 2,5$, obtusiusculis, hyalinis; basidiis brevissimis. 870
Hab. in leguminibus Cercidis Siliquastri, Robiniæ, Coluteæ, Gleditschiæ, Laburni, in Belgio, Italia, Gallia et Austria.
492. **Phoma lathyrina** Sacc. Mich. II. p. 274, M. V. Cent. XV. — 871
 Peritheciis gregariis, velatis, globoso-depressis, atronitidis, $\frac{1}{4}$ mill. diam.; sporulis oblongis, inæquilateralibus, $9-10 \approx 2\frac{1}{2}$, 2-guttulatis, hyalinis; basidiis
Hab. in leguminibus emortuis Lathyri latifolii, Padova in Ital. bor. — Spermogonium *Diaporthes*. A *Ph. leguminum* West. diversa.
493. **Phoma Triacanthi** Sacc. *Sphæropsis Gleditschiæ* Cooke in Rav. 872
 Fung. Amer. n. 145, nec Thüm. — Subgregaria, erumpens; peritheciis atris, sæpe 2-4 congestis, supra obtusis vel depressis; sporulis arcte ellipticis, hyalinis, $15 \approx 3$.
Hab. in leguminibus Gleditschiæ, Aiken in Carolina (RAVENEL).
494. **Phoma phyllostictoides** Desm. Crypt. de France, Ser. III. n. 694. 873
Hab. in leguminibus aridis sed adhuc pendulis Coluteæ arborescentis, in Gallia, et Gorizia in Italia boreali (Diagnosim comparare non potui).
495. **Phoma capsularum** Cooke et Harkn. in Grevillea 1881, p. 82. 874
 — Erumpens; peritheciis atris, nitidis, in maculas orbiculare congestis; sporulis ellipticis, hyalinis, continuis, $6,5 \approx 2,5-2,8$.
Hab. in leguminibus Robiniæ, in California.
496. **Phoma clitoricarpa** (Cooke) Sacc. *Sphæropsis Clitoreæcarpa* 875
 Cooke in Grevillea. — Sparsa, punctiformis; peritheciis atris, subglobosis, primo tectis, demum erumpentibus; sporulis late ellipticis, hyalinis, $20-25 \approx 12-14$.
Hab. in leguminibus Citoreæ, Madras (Doct. BIDIE).
497. **Phoma cassiocarpa** (Cooke) Sacc. *Sphæropsis cassiocarpa* Cooke 876
 in Grevillea. — Punctiformis, sparsa; peritheciis depressis, atris,

poro pertusis; sporulis cylindricis, utrinque rotundatis, hyalinis, 25-30 \approx 6.

Hab. in leguminibus Cassiæ Absus et Citoreæ, Madras. 877

498. **Phoma Acaciæ** Penz. et Sacc. F. Mortol. n. 23, tab. IV. fig. 10.

— Peritheciis sparsis vel laxe gregariis, majusculis, subsuperficialibus, 200-240 μ . diam.; contextu parenchymatico, atrobrunneo; ostiolo haud prominente; sporulis oblongo-ellipticis, utrinque acutiusculis, biguttulatis, hyalinis, 7-8 \approx 2-3; basidiis obsoletis.

Hab. in leguminibus dejectis Acaciæ cyanophyllæ, Mortola in Italia bor.

499. **Phoma Cucurbitacearum** (Fr.) Sacc. *Sphæria Cucurbitacearum* 878

Fr. Syst. Myc. II. p. 602. — Gregaria; peritheciis emerso-innatis, hemisphæricis, levibus, nitidis, astomis, gelatina molli; sporulis oblongis 7,5 μ . longis.

Hab. in fructibus vivis et semivivis Cucurbitæ, Momordicæ, Luffæ, in Europa et America. — Nulli maculæ insidet, ceterum *Sphæriæ? epymici* non absimilis, si a statura minore discesseris.

500. **Phoma subvelata** Sacc. Mich. I. p. 524. — Peritheciis gregariis, 879

globoso-lenticularibus, epidermide velatis, $\frac{1}{4}$ mill. diam., late pertusis; contextu minute parenchymatico circa ostiolum densiore, fuligineo; sporulis cylindræo-oblongis, 8-9 \approx 2-2 $\frac{1}{2}$, medio leniter constrictis sed continuis, 2-guttulatis, hyalinis, basidiis filiformibus, curvulis, 30 \approx 1, fultis.

Hab. in epicarpio Cucurbitæ Peponis vel aurantiiformis, Saintes in Gallia (BRUNAUD).

501. **Phoma decorticans** De Not. Micr. it. Dec. II. fig. 7. — Peri- 880

theeciis gregariis, epidermide dein frustulatim secedente initio velatis, globoso-depressis, papillulatis, atris; sporulis oblongo-fusoides, 10 \approx 2-2 $\frac{1}{2}$, 2-guttulatis, hyalinis.

Hab. in cortice fructus Cucumis sativi, in Italia, Germania et Gallia.

502. **Phoma mucosa** Speg. Mich. II. p. 273. — Peritheciis lenticula- 881

ribus, subcutaneis, 100-120 μ . diam., membranaceis, olivaceis; sporulis cylindræo-ellipticis, granuloso-farctis, hyalinis, 10 \approx 2.

Hab. in cortice putri fructus Cucurbitæ Melopeponis, in hortis et arvis, Belluno in Italia bor.

503. **Phoma Lagenariæ** (Thüm.) Sacc. *Sphæropsis Lagenariæ* Thüm. 882

Contr. Myc. Lusit. n. 553. — Peritheciis gregariis, lentiformibus, applanatis, primo tectis, demum liberatis, fusco-atris, submagnis;

sporulis cylindræis, utrinque rotundato-subacutatis, continuis, achrois, endoplasmate grumuloso, 16-18 \approx 4, basidiis brevibus, fasciculatis, flexuosis, hyalinis fultis.

Hab. in epicarpio putrido Lagenariæ vulgaris, in horto botanico Coimbra Lusitaniæ (MOLLER).

504. **Phoma lagenicola** Sacc. *Phoma Lagenariæ* Thüm. Contr. Myc. 883

Lus. n. 567. — Peritheciis numerosis, minutis, punctiformibus, immersis, nigris in macula magna, irregulari, ochraceo-ferruginea; sporulis ellipticis, utrinque rotundato-acutatis, continuis, enucleatis, 4-5,5 \approx 2,5, hyalinis.

Hab. in epicarpio arido Lagenariæ vulgaris, in horto botanico, Coimbra in Lusitania (MOLLER).

505. **Phoma cucurbitalis** B. et C. North Amer. Fungi n. 379. — 884

Sparsa, deplanata, nitida; sporulis breviter oblongis, binucleatis, minutis, 5-7 μ . long.

Hab. in seminibus Cucurbitæ Citrulli (*Water Melon*) in Amer. bor.

506. **Phoma Citrulli** B. et C. North Amer. Fungi n. 378. — Depla- 885

nata superficialis; sporulis fusiformibus, bi-trinucleatis, 20 μ . longis; basidiis sporulâ brevioribus.

Hab. in seminibus Cucurbitæ Citrulli, in Carolina infer. Americæ bor.

507. **Phoma seminalis** (B. et C.) Sacc. *Sphærospis seminalis* B. et C. 886

North Amer. Fungi n. 415. — Peritheciis sparsis, brunneis, applanatis; sporulis oblongis, inæquilateralibus, 15 \approx 5-7, granulosis.

Hab. in seminibus Citrulli, in Carolina infer.

508. **Phoma uvicola** B. et C. North Amer. Fungi n. 382. — Irregu- 887

laris subcutaneo-erumpens et tunc cuticulâ anguste cincta; sporulis oblongis, 7-8 μ . longis.

Hab. in baccis Vitis, in Carolina infer. Americæ bor.

509. **Phoma uvarum** (B. et C.) Sacc. *Sphærospis Uvarum* B. et C. 888

North Amer. Fungi n. 417. — Peritheciis innumeris, collabascensibus, cuticulâ membranacea tectis, hyalinis, centro nigris; sporulis breviter cymbæformibus leniterve curvis, 7-10 \approx 5.

Hab. in baccis Vitis (Scuppernong), in Carolina infer.

510. **Phoma baccæ** Catt. in Pir. F. Vitigni p. 56. — Peritheciis glo- 889

bosis, atris, maculis brunneis circumdatis, ostiolo minuto pertusis, subcutaneo-erumpentibus nucleo-albido; sporulis ovoideis, utrinque rotundatis, 1-3-nucleatis, hyalinis, 12 μ . longis; basidiis clavatis, radiantibus, apice 2-3, sterigmata sporophora gerentibus.

- Hab.* in baccis submaturis, in Etruria (TARGIONI-TOZZETI). — « An *Dendrophoma?* ».
511. **Phoma strobilaria** (Preuss) Sacc. *Gerulajacta strobilina* Pr. 890
Hoyersw. n. 314. — Peritheciis membranaceis, erumpentibus, globosis, atris, dein pertusis; nucleo albo; basidiis clavæformibus; sporulis ovatis albis.
Hab. ad conos dejectos Pini, Hoyerswerda.
512. **Phoma strobiligena** Desm. 17 Not. p. 8. — Peritheciis minutis, 891
subsuperficialibus, $\frac{1}{5}$ - $\frac{1}{4}$ mill. diam., sæpe gregariis, globosis, nigris, astomis, subrugulosis, collabascendo concavis, intus albis; sporulis minutissimis ovoideis vel ovoideo-oblongis, 6-8 \approx 3, hyalinis, 2-guttulatis.
Hab. in squamis strobilorum Cedri Libani, Thujæ, Pinorum, in Gallia, Italia et Belgio. — F. **microspora** Sacc. Reliq. Lib. V. n. 69: sporulis minutis, 4 \approx 2, biguttulatis. In strobilis Pini silvestris, in Italia, Gallia et Germania.
513. **Phoma Pinastri** (Oud.) Sacc. *Coniothyrium Pinastri* Oud. Aanv. 892
1876-77, p. 8. — Peritheciis membranaceis, subtilissimis, atris, contextu (sub microscopio) atrovioleaceo, minuto, celluloso, irregulariter dehiscentibus, sparsis cæspitosisve, subcompressis; sporulis achromis, mucilagine conjunctis, minimis, 3 \approx 1,5.
Hab. ad squamas strobilorum maturorum Pini Pinastri, in Neerlandia.
514. **Phoma occulta** Sacc. Cfr. Fuck. Symb. App. III. p. 23. — Peritheciis sub epidermide in stromate tenuissimo nigro limitato nidulantibus, pustulatis, demum subrimose dehiscentibus; nucleo griseo; sporulis oblongo-ovatis, biguttatis, 7 \approx 3.
Hab. in squamis conorum Abietis, in Rhenogovia. — Spermogonium *Diaporthes occulta*.
515. **Phoma conorum** Sacc. Mich. II. p. 615. — Peritheciis gregariis 894
innato-erumpentibus, globoso-depressis, subastomis; nucleo griseo; sporulis fusoides, rectis 10-14 \approx 2- $2\frac{3}{4}$, 1-guttulatis, hyalinis; basidiis uncinatis, 24 \approx 1, suffultis.
Hab. in squamis conorum Abietis, in Gallia et Germania. — Spermogonium *Diaporthes conorum*.
516. **Phoma arctica** (B. et C.) Sacc. *Sphæropsis arctica* B. et C. 895
F. N. Pac. n. 124. — Peritheciis erumpentibus, elongato-prominulis, patellæformibus vel subcompressis, hyalinis, fusiformibus.
Hab. in conis Pini Ajanensis, Kamtschatka.
517. **Phoma lineolata** Desm. Exs. Ser. II. n. 58 et 19 Not. p. 3. — 896

Peritheciis innato-erumpentibus, nigris, exiguis, in series breves connato-digestis, poro pertusis, epidermide demum fissa tectis; nucleo albo; sporulis ovoideis vel oblongis, denique cirrose expulsis, 5-7 μ . longis; basidiis brevibus.

Hab. in squamis conorum Laricis europææ, in Gallia et Belgio.

518. **Phoma galbulorum** Sacc. et Therry Mich. II. p. 617. — Peri- 897
theeciis sparsis, innato-erumpentibus, globuloso-depressis, minutis; ostiolo obtuso; sporulis oblongo-subfusoides, 7-7,5 \times 2,5-3, hyalinis; basidiis sporulâ subduplo longioribus, bacillaribus, fasciculatis.

Hab. in fructibus (galbulis) Juniperi Oxycedri, Ruoms (Ardèche) in Gallia (THERRY).

519. **Phoma entomogenea** Sacc. et Penz. Mich. II. p. 615. — Peri- 898
theeciis sparsis, erumpentibus, globulosis, nigris, obtusis, $\frac{1}{4}$ mill. diam.; sporulis ellipsoideo-oblongis, rectiusculis, 7-8 \times 3, 2-guttatis, hyalinis; basidiis subnullis.

Hab. in amentis Abietis ab insectis monstrose transformatis, Le Sapey (Isère) in Gallia (THERRY).

520. **Phoma nitens** Sacc., Rouss. et Bomm. Miscell. mycol. n. 8 (sub 899
nomine *nitidulæ*). — Peritheciis gregariis, globoso-hemisphæricis, atris, nitidissimis, subsuperficialibus, $\frac{1}{6}$ mill. diam., vix papillatis; sporulis bacillaribus, rectis, utrinque obtusiusculis, 16-20 \times 1,8-2, hyalinis; basidiis perexiguis.

Hab. in glandibus quercinis prope Bruxelles in Belgio. — Affinis *Phomæ cylindrosporæ*, sed perithecia diversa.

521. **Phoma glandicola** (Desm.) Lév. Ann. Sc. Nat. 1846, p. 281, *Spo-* 900
ronema glandicola Desm. — Peritheciis gregariis, erumpentibus, subglobosis, levibus, nigris, epidermide lacerata cinctis; ostiolo obsoleto; sporulis oblongis, 6-7 \times 1 $\frac{3}{4}$ -2, hyalinis, basidiis simplicibus obclavatis, 20 \times 2, e strato prolifero fuligineo oriundis, suffultis.

Hab. in glandibus quercinis, in Gallia, Germania, Italia, Britannia et Lusitania. — ***cupulæ** Sacc. Mich. II. p. 272: peritheciis globoso-papillatis emergentibus; sporulis oblongis, 6-8 \times 2 $\frac{1}{2}$ -3, 2-guttulatis, hyalinis, basidiis filiformibus quandoque furcatis triplo longioribus suffultis. In cupulis Quercus Ilicis, Padova. — ***Coryli-putaminis** Sacc. Mich. II. p. 272: sporulis 6 \times 2 $\frac{1}{2}$, basidiis 20 \times 1 suffultis. In putamine Coryli, Conegliano in Italia bor.

522. **Phoma cœnanthicola** Thüm. Pom. p. 106. — Peritheciis pro ra- 901
tione magnis, numerosissimis, densissime gregariis, hemisphæricis, induratis, fructum fere totum ambientibus et obtegentibus, opaco-

nigris; sporulis numerosis, cylindrico-fusiformibus, subarcuatis v. fere rectis, utrinque leniter acutatis, binucleatis, hyalinis, $7 \approx 3$.

Hab. in cœnanthio submaturo exsiccato, sed non putrido *Ficus caricæ*, Parenzo in Istria (BOLLE).

523. **Phoma endogena** Speg. Mich. I. p. 482. — Peritheciis in mem- 902
brana cotyledones obvolvete nidulantibus, griseis, quandoque sub-
tomentellis, lenticulari-sphæroideis, tenue-membranaceis; contextu
parenchymatico-celluloso, 150-200 μ . d.; sporulis hyalinis, granu-
loso-nubiloso-farctis, ovoideis vel ellipticis, $6-8 \approx 2-3$, eguttulatis.

Hab. in seminibus maturis *Castaneæ vescæ* cortice integro
vestitis, adhuc vegetis, Conegliano in Italia bor. et Lyon in Gal-
lia. In utroque loco (mirum!) socia adest *Mycogone cervina* Link.

524. **Phoma brunneotincta** B. et C. (Citatur in Rep. on the St. Mus. 903
New York).

Hab. in interiore parte *Castanearum coctarum*, Buffalo
in Amer. bor. (CLINTON). — Diagnosis desideratur.

525. **Phoma Amenti** (C. et H.) Sacc. *Sphæropsis Amenti* Cooke et 904
Hark. in Grevillea 1881, p. 82. — Peritheciis minimis, membra-
naceis, sparsis, convexis, brunneis; sporulis ellipticis, hyalinis, con-
tinuis, $10 \approx 5$.

Hab. in amentis *Alni*, in America bor.

526. **Phoma nyssocharpa** Cooke in Grevillea. — Sparsa; peritheciis 905
epidermide tectis, vix prominulis; sporulis ellipticis, hyalinis, $7 \approx 3$.

Hab. in fructibus *Nyssæ*, Aiken Amer. bor. (RAVENEL).

527. **Phoma Juglandis** (Preuss) Sacc. *Nemaspora Juglandis* Preuss 906
Hoyersw. n. 149. — Pustulis hemisphæricis gregariis; peritheciis
ostiolo centrali pertusis; nucleo pulposo candido, in cirros tenel-
los, longos, tortos, subdiaphanos pallidos eructato; sporulis fusi-
formibus, utrinque rotundatis, minutis, albis; basidiis filiformibus.

Hab. in nucibus immaturis nigrescentibus *Juglandium*, prope
Hoyerswerda.

528. **Phoma pomorum** Thüm. Fungi Pom. p. 105. — Peritheciis sub- 907
depresso-globosis, sparsis, paucis, semiemergentibus, atris in ma-
cula plus minusve orbiculata, depresso-applanata, arescendo nivea,
indurata, margine distincto, angusto, lineariformi, purpureo-nigro;
sporulis paucis, ellipsoideo-globulosis, nubiloso-cinereis, sub-
diaphanis, enucleatis, $5-7 \mu$. diam.

Hab. in fructibus maturis vivis *Piri Mali*, Bayreuth in
Bavaria.

529. **Phoma malorum** (Berk.) Sacc. *Sphæropsis Malorum* Berk. Outl. 908

p. 316. — Peritheciis globosis vel subglobosis, cuticulâ nigrificata tectis, ostiolis erumpentibus longiuscule papillatis; stromate nigricante; sporulis ellipsoideis, tunicatis, granulosis, chlorinis, 30 μ . longis.

Hab. in fructibus Mali humistratis vel adhuc pendulis, in Britannia et America bor. — «An demum *Diplodia?*».

530. **Phoma Aceris-Negundinis** Arcang. Erb. Critt. It. Ser. II. n. 1379. 909

— Peritheciis sparsis; sporulis ellipticis, utroque fine bi-triguttulatis, 8 = 3.

Hab. in fructibus exsiccatis Aceris Negundinis, in horto botanico pisano (ARCANGELI).

531. **Phoma samaricola** Sacc. *Sphæropsis Samarorum* Mont. Cent. 910

VI. n. 89, in Ann. 3, XII. p. 307 et Syll. n. 965. — Peritheciis innatis cuticula tectis, globoso-depressis, atris, albo-farctis; sporulis oblongis, hyalinis, granulosis, primitus sat longe pedicellatis, 20-30 = 7-8.

Hab. in fructu (non in alis) Aceris Negundinis, in horto botanico massiliensi in Gallia (CASTAGNE), et Coimbra in Lusitania (MOLLER).

532. **Phoma samararum** Desm. Crypt. Fr. ed. II. n. 148. — Perithe- 911

ciis exiguis, convexis, nigris, epidermide dein fissa tectis, pertusis; poro subinde rimoso epidermide dealbata cincto; sporulis minutis, oblongo-ellipsoideis, 2-guttulatis, 7 μ . longis.

Hab. in samaris dejectis Fraxini excelsioris, rarius Aceris et Paliuri, in Italia, Gallia, Belgio, Germania et Britannia.

533. **Phoma pterophila** (Nits.) Fuck. Symb. myc. p. 377, *Sphæria* 912

pterophila Nits. — Peritheciis majusculis, gregariis globoso-depressis, pertusis atris; sporulis oblongis, 8 = 3, biguttatis, hyalinis, basidiis filiformibus suffultis.

Hab. in samaris dejectis Fraxini excelsioris, in Germania, Italia et Gallia. — A *Phoma samararum* Desm. peritheciis multo majoribus imprimis differt. *Diaporthes samaricolæ* Plow. verisimiliter uti status spermogonicus habenda est.

534. **Phoma siliquæ** Sacc. Mich. II. p. 272. — Peritheciis gregariis, 913

innato-erumpentibus, globoso-conoideis, $\frac{1}{6}$ mill. diam., nigris; sporulis minutis, oblongo-ovoideis, 4 = 1, hyalinis.

Hab. in siliquis Cheiranthi Cheiri, Possagno in Italia bor. (A. Rossi).

535. **Phoma siliquarum** Sacc. et Roum. Reliq. Lib. V. n. 80. — Pe- 914

peritheciis laxè gregariis, tectis, globoso-depressis, papillulatis, $\frac{1}{5}$ mill. d., atris; sporulis oblongis, $8 \approx 3$; basidiis bacillaribus, paulo brevioribus.

Hab. in siliquis Brassicæ, sæpius in earumdem areis dealbatis, in Germania et Gallia.

536. **Phoma Siliquastrum** Desm. XVII. Not. p. 8. — Maculis oblongis 915
olivaceo-brunneis; peritheciis numerosis, minutissimis, approximatis, fusco-nigris, poro apertis; sporulis perexiguis, oblongis, 2-guttatis, 5 μ . longis.

Hab. in siliquis pedunculisque Brassicæ, in Gallia.

537. **Phoma morphæa** Sacc. Mich. II. p. 273. — Peritheciis grega- 916
riis, subcutaneo-erumpentibus, globoso-depressis, 150 μ . diam., poro pertusis; contextu minute parenchymatico fuligineo; sporulis oblongis, utrinque rotundatis, $7-8 \approx 2\frac{1}{2}$, inæquilateralibus, hyalinis, 2-guttulatis, basidiis fasciculatis, deorsum crassiusculis, 18-20 \approx 2-3, suffultis.

Hab. in stigmatè fructus Papaveris somniferi, Conegliano in Italia boreali (SPEGAZZINI).

538. **Phoma Bellyneckii** West. Exs. n. 630. — Peritheciis innatis dein, 917
epidermide secedente, superficialibus, punctiformibus, sparsis, globulosis, membranaceis, atro-fuscis; nucleo albo; sporulis ovoideo-oblongis, 2-guttulatis.

Hab. in squamis involucri floralis Cynaræ Scolymi et C. Cardunculi, in Belgio et Gallia.

539. **Phoma Liriodendri** West. Exs. n. 967, Lamb. Myc. Belg. III. 918
p. 83 (sub *Ceuthospora Liriodendri*). — Peritheciis minutis, nitidis, atris, sparsis, initio epidermide atrata tectis, dein erumpentibus; ostiolo papillato, plus v. minus elongato; nucleo albo; sporulis ovoideo-oblongis, 2-guttatis, hyalinis.

Hab. in fructibus Liriodendri Tulipiferæ, Namur in Belgio (BELLYNCK). — Diagnosis allata nullo modo cum *Ceuthospora* congruit. *Ph. Liriodendri* West. ramicola in Thüm. Fung. Litor. n. 170 (Gorizia) forte speciem alienam sistit.

540. **Phoma eriophora** B. et Br. Ann. N. H. n. 812. — Peritheciis 919
globosis, liberis initio pallidis, denique nigricantibus, deorsum albo v. flavido-tomentellis, e mycelio simili emergentibus; contextu rubescente; sporulis copiosissimis, curvulis, hyalinis, 6 μ . longis.

Hab. in fructibus Æsculi Hippocastani, in Britannia.

541. **Phoma platensis** Speg. Arg. Pug. II. p. 34. — Peritheciis glo- 920
boso-lenticularibus, tectis sed prominulis, atris, ostiolo papillato,

perforante donatis, $\frac{1}{3}$ - $\frac{1}{2}$ μ . diam.; contextu dense parenchymatico, fuligineo-atro; sporulis ellipticis, utrinque acutiuscule rotundatis, biguttulatis, hyalinis, 5-8 = 2-3, in sterigmatibus filiformibus, hyalinis, 15-20 = 1. acrogenis.

Hab. in fructibus exsiccatis vetustis Solani elæagnifolii, in pratis circa Chacarita in America meridionali.

542. **Phoma carpophila** (Lév.) Sacc. *Sphæropsis carpophila* Lév. Ann. 921

Sc. Nat. 1845, p. 62. — Erumpens; peritheciis sparsis subconicis, basi applanatis, epidermide fissa tectis; ostioli papillatis; sporulis ellipsoideis, continuis, hyalinis.

Hab. ad fructus Lauri Ravensaræ («?»), in Madagascar.

543. **Phoma Leburtonii** West. Bull. Ac. Belg. t. XIX. n. 9. — Pe- 922

ritheciis sparsis, exiguis, punctiformibus, atro-nitidis, immersis; ostiolo papillato; nucleo albido; sporulis minutissimis, ovoideis, hyalinis, 2-guttulatis.

Hab. in seminibus Althææ roseæ, Louvain in Belgio (LEBURTON).

544. **Phoma folliculorum** (Lév.) Sacc. *Sphæropsis folliculorum* Lév. 923

Ann. Sc. Nat. p. 63. — Erumpens; peritheciis gregariis, subtectis, glabris, nigris, conicis, circa ostiolum papillatum depressis, macula albicante insidentibus; sporulis ovoideis, continuis, hyalinis.

Hab. ad folliculos Asclepiadis curassavicæ (herb. DECAISNE).

545. **Phoma Vincetoxici** West. Exs. n. 1134, Mich. I. p. 272. — Pe- 924

ritheciis gregariis atro-brunneis, epidermide diaphana tectis erumpentibusque, exiguis, poro pertusis; sporulis ovoideis, hyalinis, biguttulatis, 7,5-8 = 3-4.

Hab. in folliculis ramulisque Cynanchi Vincetoxici, in Belgio et Italia boreali.

546. **Phoma deusta** Fuck. Symb. myc. p. 377. *Sphæronæma Rhi-* 925

nanthi Lib. Exs. p. 263. *Sphæria Rhinanthi* Sommerf.? — Peritheciis tectis, in macula atro-fusca, minutis, ostioli truncatis, prominulis; sporulis in sporophorum filiformium, simplicium apicibus, cylindræis, rectis, simplicibus, 10 = 2, hyalinis.

Hab. in bracteis, capsulis, caulibusque Rhinanthi minoris et R. cristæ-galli, in Germania et Belgio.

547. **Phoma Catalpæ** (Thüm.) Sacc. *Sphæropsis Catalpæ* Thüm. F. 926

Austr. n. 80. — Peritheciis sparsis, ellipticis, conico-emersis, pustulæformibus, mediis, fusco-atris; sporulis ellipsoideis vel longe

ovatis, utrinque rotundatis, simplicibus, interdum medio subconstrictis, achrois, 8-12 \approx 4.

Hab. in capsulis emortuis Catalpæ syringifoliæ, Vindobonæ in Austria (THÜMEN).

548. **Phoma carpogena** Sacc. et Roum. Mich. II. p. 339. — Peritheciis sparsis majusculis, $\frac{1}{2}$ mill. d., globoso-depressis, atronitidulis, initio velatis; sporulis fusoidis, 6-8 \approx 2 $\frac{1}{2}$, biguttulatis, hyalinis.

Hab. in interiore capsularum Catalpæ syringifoliæ, pr. Toulouse in Gallia. — Forte Diaporthes spissæ Sacc. et Speg. spermogonium.

549. **Phoma dalmatica** (Thüm.) Sacc. *Phyllosticta dalmatica* Thüm. Pilze d. Ölb. p. 40. — Peritheciis solitariis sparsis, sub epidermide nidulantibus subimmersisque, punctiformibus, majusculis, nigris, in macula suborbiculari fusca, pruinosa, marginata sitis; sporulis clavato-fusoidis, apice subacutatis, basi incrassato-rotundatis, continuis, rectis v. interdum curvulis, hyalinis, nubiosis, 22 \approx 6-7.

Hab. in fructibus Oleæ europææ, in Austria.

550. **Phoma Olivarum** Thüm. Pilze d. Ölb. p. 40. — Peritheciis densis submagnis, hemisphæricis, emergentibus, subinde confluentibus, nigris; sporulis breve cylindræo-ellipsoideis, utrinque rotundatis, grosse 2-nucleatis, 3-5 \approx 1,5-2, hyalinis.

Hab. in fructibus Oleæ europææ, in Austria.

551. **Phoma Passifloræ** Penz. et Sacc. F. Mortol. n. 24. tav. IV. fig. 11. — Peritheciis laxè congregatis, minutis, aterrimis, hypodermicis, dein prorumpentibus, globosis, duris, carbonaceis; sporulis ellipticis, acutiusculis, biguttulatis, hyalinis, 7-8 \approx 3-3,5; basidiis dense cæspitosis, simplicibus, integris, hyalinis, 11-12 \approx 2-2,5.

Hab. in pedunculis exsiccatis Passifloræ hybridæ, Mortola in Ital. bor.

552. **Phoma fallax** Berk. in Fl. New Zeal. p. 193. — Peritheciis subglobosis fuscis supra translucidis; sporulis oblongis, subcymbiformibus, hyalinis, 14-15 μ . longis.

Hab. in fructu Rhipogoni parviflori, Bay of Islands Novæ Zelandiæ (HOOKER).

IV. In Monocotyledoneis.

553. **Phoma cocoina** Cooke in Grevillea, t. 86, fig. 4. — Sparsa; peritheciis erumpentibus, demum detectis, globosis, atris; sporulis minutis, arcte ellipticis, hyalinis, 8 μ . longis.

- Hab.* in petiolis vetustis *Cocos nucifera*, Demerara in India.
554. **Phoma Palmarum** (Cooke) Sacc. *Sphæropsis palmarum* Cooke 933
in *Grevillea* t. 86, f. 1. — Erumpens; peritheciis subglobosis, applanatis, demum superne detectis, atris; sporulis ellipticis, hyalinis, intus granulosis, 20 \approx 12.
Hab. in petiolis nervisque *Cocos nucifera*, Demerara in India.
555. **Phoma striolata** Speg. *Revue myc.* II. p. 161. — Peritheciis 934
subglobosis, minutis, 100–110 μ . diam., stromate nigro lineariter elongato subepidermico immersis; sporulis copiosis, hyalinis, 1–2-guttulatis, 5–7 \approx 3–4.
Hab. in spatha dejecta putrescente *Cocos nucifera*, S. Vincent insula Africae.
556. **Phoma maculata** (Cooke et Harkn.) Sacc. *Sphæropsis maculata* 935
Cooke et Harkn. in *Grevillea* n. 64. — Maculis atris, effusis, difformibus; peritheciis gregariis, magnis, globosis, rugulosis, erumpentibus; sporulis ellipticis, profusis, hyalinis, 10 \approx 5.
Hab. in foliis v. petiolis v. stipitibus *Palmarum*, in California.
557. **Phoma Pritchardiae** Cooke et Harkn. in *Grevillea* n. 64. — Sub- 936
gregaria; peritheciis semiimmersis primo tectis, atris, nitidis, poro pertusis; sporulis cylindrico-ellipticis, utrinque obtusis, continuis, binucleatis, hyalinis, 14 \approx 3.
Hab. in foliis *Pritchardiae*, in California.
558. **Phoma Desmonci** Rabenh. *Hedw.* 78, p. 60. — Peritheciis.....; 937
sporulis cylindratis, rectis curvatisve, utroque polo obtusis, 5 \approx 1,5–2.
Hab. in foliis *Desmonci melanochæti*, in India or.
559. **Phoma Sabaleos** Ces. *Hedw.* 1882, p. 10. — Erumpens, subhemi- 938
sphaerica, membranacea, contextu minute celluloso; sporulis ellipticis, acutiusculis, pallidis, 6 \approx 4.
Hab. in lamina exsiccata foliorum *Sabal Adansonii*, in horto botanico neapolitano.
560. **Phoma Pandani** (Lév.) Sacc. *Sphæropsis Pandani* Lév. *Ann.* 939
Sc. Nat. 1846, p. 293. — Peritheciis confertis, erumpentibus, subglobosis, intus albis, receptaculo effuso, nigro, tenui insidentibus, ostioliis subobsoletis pertusis; nucleo albo; sporulis magnis ovatis continuis vel bilocularibus.
Hab. ad fructus *Pandanorum* (GAUDICHAUD in herb. Mus. Par.). — Si sporulae vere biloculares, a *Phoma* nimis differret.
561. **Phoma alliicola** Sacc. et Roum. *Reliq. Lib. Ser. IV.* n. 79. — 940

Peritheciis gregariis, epidermide secedente superficialibus, globulosis, aterrimis, exiguis, vix 130 μ . diam., obtusis, vertice pertusis; sporulis oblongis, biguttulatis, 5 = 2, hyalinis; basidiis obsoletis.

Hab. in caule Alliorum, Malmedy (LIBERT).

562. **Phoma Agapanthi** (Thüm.) Sacc. *Sphæroopsis Agapanthi* Thüm. 941

Contr. Myc. Lusit. n. 319. — Peritheciis sparsis, emersis, sublineariformibus, primo epidermide tectis, demum liberis, subelevatis, aterrimis; sporulis ellipsoideis, utrinque subacutiusculis, continuis, griseis, 6-10 = 4.

Hab. ad scapos emortuos Agapanthi umbellati, in horto botanico, Coimbra Lusitaniæ (MOLLER).

563. **Phoma Ornithogali** Thüm. in Flora. — Peritheciis dense gre- 942

gariis, colonias irregulares, magnas formans, subparvis, semiimmersis, liberis, globoso-depressis, fusco-nitidis; sporulis numerosis, ellipticis vel cylindrico-ovoideis, vertice rotundato-dilatatis, apice angustatis et subobtusis-acutatis, simplicibus, binucleatis, achrois, 4-5 = 1,5.

Hab. ad caules emortuos Ornithogali altissimi, pr. Somerset-East, Promont. bonæ spei (MAC-OWAN).

564. **Phoma Liliacearum** West. 5. Not. p. 20. — Peritheciis innatis, 943

ovoideo-oblongis, secundum fibras dispositis seriatisque; ostiolo poriformi; sporulis ovoideis, hyalinis, 2-guttulatis, 7,5-1-2.

Hab. in pedunculis Hemerocallidis fulvæ, in Belgio.

565. **Phoma crocophila** (Mont.) Sacc. *Perisporium crocophilum* Mont. 944

Syll. n. 902 et Étude microgr. du Tacon (Maladie du safran), in Mém. Soc. de Biologie, tom. I. 1849, p. 68, et interpr. angl., in Journ. of the Hort. Soc., 1849, cum icone. — Peritheciis minutis, ovoideo-globosis, atro-nitentibus, apice poro pertusis, e basi fibras irradians emittentibus; nucleo primitus celluloso, cellulis subconcatenatis; sporulis globosis minimis.

Hab. in bulbis Croci sativi, morbo nomine *Tacon* nuncupato vitiat, in Gallia.

566. **Phoma macrothecia** Thüm. in Flora 1876, p. 571. — Perithe- 945

ciis amphigenis, sed præcipue epiphyllis, exsertis tuberculiformibus, orbicularibus, epidermide expallescenti tectis, postremo liberis, atris; sporulis numerosissimis, longo-ovoideis, utrinque leniter acutatis, binucleatis, interdum concatenatis (?), 10-12 = 3,5-4, hyalinis.

Hab. ad folia viva Morææ grandifloræ, in summo monte Boschberg pr. Somerset-East, Promont. bonæ spei (MAC-OWAN).

567. **Phoma elongata** (B. et C.) Sacc. *Sphæroopsis elongata* B. et C. 946

North Am. Fungi n. 412 (bis). — Peritheciis minutis, nitidis, sparsis; ostioliis breve emergentibus; sporulis oblongis, subfusiformibus, enucleatis, $20 \approx 3,5-4$; sporophoris sursum attenuatis.

Hab. in caulibus Gladioli, Alabama in Amer. bor. (PETERS). 947

568. **Phoma Gladioli** (Cooke) Sacc. *Sphæroopsis Gladioli* Cooke Grev. XII. p. 23. — Follicola, gregaria, in maculis pallidis sita; peritheciis minimis, subglobosis, atris; sporulis elongato-ellipsoideis, hyalinis, $20 \approx 5$.

Hab. in foliis Gladioli, in Carolina austr. Americæ borealis (RAVENEL).

569. **Phoma microscopica** B. et Br. Ann. N. II. n. 401. — Peritheciis subglobosis, levibus, sparsis, epidermide ad ostiola nigrificatâ velatis, poro pertusis, in areis decoloratis sitis; sporulis oblongo-ellipsoideis, magnitudine satis variis, subinde biguttatis, hyalinis.

Hab. in caule emortuo Potamogetonis, in Britannia.

570. **Phoma filamentosa** (Cooke) Sacc. *Sphæroopsis filamentosa* Cooke Grev. XII. p. 22. — Peritheciis sparsis, punctiformibus, subglobosis, atris, cuticulâ hyalina tectis; sporulis cylindræis, utrinque obtusis, hyalinis, $18-20 \approx 3-4$.

Hab. in caule Yuccæ filamentosæ, in Carolina Americæ borealis (RAVENEL).

571. **Phoma gloriosa** Sacc. Mich. II. p. 274. — Peritheciis amphigenis, subcutaneis, hinc inde gregariis lineaque nigra tortuosa circumdatis, globoso-depressis; sporulis oblongo-ellipsoideis, 2-guttulatis, hyalinis, $8 \approx 3$, basidiis bacillaribus, $15 \approx 2$, curvulis suffultis.

Hab. in foliis putrescentibus Yuccæ gloriosæ, Selva et Crespano in Italia boreali. — Spermogonium *Diaporthes* (A. Rossi).

572. **Phoma Yuccæ** Cooke in Grevillea. — Sparsa, tecta; peritheciis prominulis, papillatis; sporulis ellipticis, utrinque nucleatis, hyalinis, $9 \approx 3$.

Hab. in foliis Yuccæ, Aiken in Carolina Amer. bor.

573. **Phoma Dasyliirii** Ces. Hedw. 82, p. 9. Rabh. FE. 2655. — Peritheciis hyalinis tenuissimis, lanâ viridula primitus obductis (?); sporulis olivaceis, irregulariter lato-ellipticis, $7 \approx 6$.

Hab. in foliis Dasyliirii juncei, in horto botanico neapolitano Ital. austr.

574. **Phoma æquivoca** (Ces.) Sacc. *Sphæroopsis æquivoca* Ces. Hedw. 1882, p. 9 et Fungi Eur. n. 2655. — Peritheciis laxè cellulosis; sporulis elongatis obscurissime (?) 1-septatis, irregulariter linguiformibus, 24μ . longis, hyalinis.

Hab. in foliis *Dasyliirii juncei*, in horto botanico neapolitano (CESATI).

575. **Phoma brunneola** (B. et C.) Sacc. *Sphæropsis brunneola* B. et C. North Am. F. n. 416. — Peritheciis epidermide brunneola tectis, hysteriiformibus; sporulis breviter subfusiformibus, subinde apice crassioribus, 10 μ . longis.

Hab. in ramis *Smilacis rotundifoliæ*, New England in America boreali (SPRAGUE).

576. **Phoma smilacina** (Peck) Sacc. *Sphæropsis smilacina* Peck 33 Rep. St. Mus. 24. — Maculis orbicularibus, 4-6 mill. diam., are-scendo dealbatis, fusco-marginatis; peritheciis epiphyllis, subhemisphæricis v. depressis, nigris, sæpe concentrice dispositis; sporulis oblongis v. subfusoideis, hyalinis, 20-30 \approx 7,5.

Hab. in foliis subvivi *Smilacis rotundifoliæ*, Wading River in America boreali.

577. **Phoma atomoides** Penz. et Sacc. F. Mortol. n. 17, tav. IV. fig. 5 (sub nom. *atomospora*, sed non Cooke). — Peritheciis dense congregatis, minusculis, epidermide tectis, dein prorumpentibus, sphæroideis, papillatis, aterrimis, 180-220 μ . diam.; contextu parenchymatico; sporulis minutissimis, 0,7-1 \approx 0,3-0,4, cylindraceutis, utrinque rotundatis, medio haud constrictis, hyalinis, eguttulatis; basidiis obsoletis.

Hab. in ramulis inflorescentiæ *Agaves* sp. Mortola in Italia boreali.

578. **Phoma brevipes** Penz. et Sacc. F. Mortol. n. 18, tav. IV. fig. 6. — Peritheciis laxè congregatis, hypodermicis, solo ostiolo papilloso prominente, globosis, haud depressis, nigerrimis, contextu duro, parenchymatico; sporulis ellipsoideis, utrinque acutiusculis, hyalinis, eguttulatis, plasmate granuloso farctis, 13-16 \approx 7-8, basidiis brevissimis, papilliformibus, hyalinis, 2-3, suffultis.

Hab. sub epidermide scapi floralis *Agaves* sp. Mortola in Italia boreali.

579. **Phoma Debeauxiana** Sacc. *Glæosporium Debeauxii* Roum. Rev. Myc. V. p. 28. — Peritheciis globosis, nigris, aggregatis, in maculis subcircularibus, confluentibus, albidis, dein fuscis, margine elevato purpureo; sporulis elongatis, rectis, utrinque obtusis, 12 \approx 2.

Hab. in foliis *Aloes spicatæ*, Oran in Algeria (DEBEAUX).

— «Cum perithecia describantur, species *Phomæ* videtur».

580. **Phoma Fourcroyæ** Thüm. Contr. Myc. Lus. n. 332. — Peritheciis numerosis, epiphyllis, dense gregariis, conico-elevatis, par-

vulis, aterrimis, ostiolatis, primo epidermide papyraceo-membranacea, scariosa tectis, demum liberis; sporulis numerosissimis, ellipsoideis vel ovatis, simplicibus, enucleatis vel cum nucleo unico minimo, achrois, $3,5-5 \approx 1,5-2$.

Hab. ad folia emortua *Fourcroyæ giganteæ*, Coimbra Lusitaniæ in horto botanico (MOLLER).

581. **Phoma Polygonati** Thüm. Pilzfl. Sib. n. 603. — Peritheciis numerosissimis, densissime gregariis, lenticulari-disciformibus, ovalibus, applanatis, obscure fuscis vel fere nigris, submagnis; sporulis numerosis, bacillari-cylindricis, utrinque rotundato-obtusis, simplicibus, enucleatis, achrois, $4-6 \approx 2-2,5$.

Hab. in caulibus emortuis *Polygonati vulgaris*, prope Petroschilowo in Sibiria asiatica.

582. **Phoma Convallariæ** West. Bull. Ac. Belg. XIX. n. 9. — Peritheciis subglobosis vel oblongis, innatis, sparsis, minutis, atris, papillulatis; nucleo albo; sporulis ovoideis, minutis, biguttulatis.

Hab. in foliis *Polygonati multiflori*, in Belgio. — Spermogonium *Diaporthes*. — ***Ph. polygonatea** Sacc. cfr. Mich. II. p. 617: peritheciis oblongis, intus subgriseis; sporulis oblongis, utrinque rotundatis, $9-10 \approx 3$, hyalinis. In caule emortuo *Polygonati vulgaris*, Rouen in Gallia.

583. **Phoma Solierii** (Mont.) Sacc. Mich. I. p. 525, *Ascospora Solierii* Mont. Syll. n. 1001. — Peritheciis punctiformibus, globosis, depressis, epidermide atrata tectis, ostiolo late umbilicato prominulo; sporulis cylindraceo-oblongis, utrinque rotundatis, 2-guttatis vel nubiosis, $28-30 \approx 6$, hyalinis ($20 \approx 7$ et 4-guttatis sec. Mont.).

Hab. in caule *Asphodeli racemosi* et *Asph. albi*, in Gallia.

584. **Phoma Asphodeli** Sacc. Mich. I. p. 521. — Stromate longitudinaliter effuso, nigricante; peritheciis gregariis, innato-erumpentibus, globulosis, $100-120 \mu$. diam., pertusis; sporulis ovato-oblongis, $8 \approx 3$, 2-guttatis, hyalinis; basidiis acicularibus sesquilateralibus.

Hab. in caule putrescente *Asphodeli*, Rouen in Gallia (LE-TENDRE). — Spermogonium *Diaporthes*.

585. **Phoma asphodelina** Thüm. Contr. Myc. Lusit. I. n. 156. — Peritheciis sparsis, pro ratione mediis, subimmersis, conicis, atris, obsolete angustissime fusco-cinctis; sporulis ellipsoideis, utrinque rotundatis, enucleatis, hyalinis, $4-6 \approx 2-3,5$.

- Hab.* in capsulis aridis adhuc pendulis prope Penedo da Saudade in Lusitania (MESNIER). — A *Ph. Asphodeli* Sacc., caulicola, satis differre videtur.
586. **Phoma Cordylines** (Thüm.) Sacc. *Sphæropsis Cordylines* Thüm. 965
 Contr. F. Lusit. n. 554. — Peritheciis numerosis, dense gregariis, hypophyllis, diu tectis pustulæformibus, dein liberis et apice poro centrali pertusis, aterrimis; sporulis longe ellipticis, utrinque rotundatis, nucleolatis vel endoplasmate grumuloso, continuis, hyalinis, 13-15 \times 6-8, basidiis fasciculatis, brevibus, subrectis, hyalinis fultis.
Hab. in foliis emortuis *Cordylines australis*, in horto botanico Coimbra Lusitaniæ (MOLLER).
587. **Phoma Asparagi** Sacc. Mich. I. p. 257. — Peritheciis gregariis, 966
 epidermide velatis, globoso-depressis; sporulis oblongis, 7-8 \times 3, 2-guttulatis, hyalinis; basidiis nullis visis.
Hab. in caulibus putrescentibus *Asparagi officinalis*, in Italia bor., Gallia et Sibiria. — Spermogonium *Diaporthes Asparagi* Nits.
588. **Phoma lanceolata** (C. et E.) Sacc. *Sphæropsis lanceolata* C. et E. 967
 in *Grevillea*. — Sparsa, epidermide nigrificata tecta; peritheciis brunneis, submembranaceis, poro pertusis; sporulis lanceolatis, hyalinis, rectis, granulis repletis, 30 \times 7.
Hab. in caule *Asparagi*, New Jersey in Amer. bor. (ELLIS).
589. **Phoma Rusci** West. Bull. Ac. Belg. Ser. II. t. 7. n. 5. — Pe- 968
 ritheciis amphigenis, sparsis, nigris, innatis; ostiolo papillato epidermidem elevante et perforante; sporulis ovoideo-elongatis, hyalinis.
Hab. in foliis (cladodiis) *Rusci aculeati*, in Belgio et Lusitania.
590. **Phoma Hippoglossi** (Mont.) Sacc. *Sphæropsis Hippoglossi* Mont. 969
 Syll. n. 966. — Peritheciis in macula pallida nunc indeterminata, nunc rufo-cincta gregariis, epidermide velatis, globoso-depressis, $\frac{1}{10}$ mill. diam., poro albo pertusis; sporulis globoso-ovoideis, 10-12 \times 8-11, guttulis minutis farctis, hyalinis, initio brevissime stipitellatis.
Hab. in cladodiis languidis *Rusci Hippoglossi* et *R. aculeati*, in Gallia et Italia.
591. **Phoma Strelitziae** Thüm. Contr. Myc. Lus. I. p. 22. — Peritheciis 970
 epiphyllis, dense gregariis, fere lineariformi-dispositis in areis maximis, irregularibus, cinereis, primo epidermide tectis, demum ostiolo

minutissimo conico pertusis, atris, globosis, parvis; sporulis minutis, ellipticis vel globosis, 1,5 μ . diam., achrois.

Hab. ad folia emortua Strelitzæ augustæ, prope Lisboa in Lusitania.

592. **Phoma Musarum** Cooke Grev. XII. pag. 22. — Minuta, sparsa, 971
punctiformis; peritheciis subglobosis, atris, epidermide tenui tectis;
sporulis ellipsoideo-elongatis, 10 \approx 3.

Hab. in petiolis Musarum, Georgia in Amer. bor. (RAVENEL).

593. **Phoma Musæ** (Cooke) Sacc. *Sphæropsis?* *Musarum* Cooke in 972
Grevillea. — Peritheciis semiimmersis, atris, nitidis, subconicis,
in maculis parvulis congestis; sporulis subglobosis vel ovatis vel
ellipticis, hyalinis, 12-22 \approx 10-14; basidiis nullis visis.

Hab. in Musa paradisiaca, Belgaum in India orientali.

594. **Phoma Oncidii** Speg. F. Arg. Pug. V. n. 277. — Maculis nul- 973
lis; peritheciis parvis, lenticularibus, 90-100 μ . diam., epidermide
tectis eaque adnatis, tenui-membranaceis, contextu parenchyma-
tico, olivaceo; sporulis ellipticis vel navicularibus, utrinque obtu-
sissime rotundatis ac 1-guttulatis, 4 \approx 2, hyalinis.

Hab. ad scapos aridos Oncidii speciei cujusdam in truncis
vetustis, in silvis de Corrientes Argentinae.

595. **Phoma Orchidearum** Ces. Myc. Born. — Peritheciis epidermide 974
obtectis, microscopicis, in greges minutos compositis, membrana-
ceis, depresso-globosis.

Hab. ad folia Orchideæ majoris, Ceylon Peradenya.

596. **Phoma corrientina** Speg. F. Arg. Pug. IV. n. 275. — Maculis 975
latissimis, indeterminatis, arescenti-albis; peritheciis hinc inde
sparsis, globosis, 150-180 μ . diam., immersis, atris, crassiuscule
membranaceis, coriacellis, contextu indistincto, opaco, fuligineo;
sterigmatibus cylindræis, erectis, 15 \approx 1,5-2, dense constipatis,
hyalinis; sporulis acrogenis, ellipticis, sæpius inæquilateralibus,
utrinque plus minusve acutatis ac 1-guttulatis, 9-10 \approx 3, hyalinis.

Hab. in foliis emortuis putrescentibus Oncidii speciei cujus-
dam ad truncos vetustos, in silvis de Corrientes Argentinae.

597. **Phoma Surinamensis** (B. et C.) Sacc. *Sphæropsis surinamensis* 976
B. et C. Exot. F. Schwein. p. 280. — Sparsa nigra; peritheciis
depresso-globosis; sporulis hyalinis, elliptico-oblongis, majoribus,
24-28 μ . long.

Hab. in petiolis foliorum Caladii cujusdam, Surinam.

598. **Phoma Typharum** Sacc. *Pleosporæ* (Leptosphaeriæ) *Typharum* 977
Pycnidium Fuck. Symb. p. 137. — Peritheciis minutis, subliberis,

globoso-conicis; ostiolis perithecium subæquantibus; sporulis minutissimis, cylindræis, curvatis, hyalinis.

Hab. in foliis putrescentibus *Typhæ latifoliæ*, in Rhénogovia.

599. **Phoma lacustris** Karst. Hedw. 1884, p. 58. — Peritheciis sub- 978
gregariis, innatis, sphæroideis, atris, punctiformibus; sporulis oblongatis vel elongatis, rectis, hyalinis, 7-12 \approx 2,5-4.

Hab. in calamis emortuis *Scirpi lacustris*, prope Mustiala Fennia.

600. **Phoma Caricis** (Fr.) Sacc. *Sphæropsis Caricis* (Fr.) Kickx Flandr. 979
I. p. 403. — Peritheciis nigris, globulosis, astomis, membranaceis, seriato-aggregatis, subinde confluentibus, innatis, epidermide nigricata tectis, dein erumpentibus; sporulis cylindræo-oblongis, obtusis, hyalinis.

Hab. in foliis *Caricis stellulatæ*, in Belgio.

601. **Phoma caricina** (Thüm.) Sacc. *Sphæropsis caricina* Thüm. 980
Contr. Myc. Lus. n. 324. — Peritheciis numerosis, gregariis, hemisphærico-punctiformibus, primo epidermide tectis, dein poro pertusis, glauco-atris; sporulis magnis, ellipticis, utrinque rotundatis, interdum nucleatis, continuis, episporio subcrasso, achrois, 20-22 \approx 10; basidiis brevissimis.

Hab. ad culmos emortuos *Caricis maximæ*, Fonte do Castanheiro prope Coimbra in Lusitania (P. G. MESNIER).

602. **Phoma Junci** Preuss Hoyersw. n. 281. — Tecta, dein rimoso, 981
seriato-erumpens, subrotunda, tuberculosa; peritheciis seriatis, nigro-farctis, stromate nigricante primo immersis; sporulis fusiformibus, utrinque subacutis cum guttulis oleosis.

Hab. in culmis exsiccatis *Junci conglomerati*, prope Hoyerswerda.

603. **Phoma neglecta** Desm. 22 Not. pag. 8. — Peritheciis paucis, 982
sparsis, ovatis, prominentibus, nigris, nitidis, intus albis, poro pertusis, epidermide integra aut tandem fissa tectis; sporulis oblongis, 5 \approx 1,7.

Hab. in pedunculis et squamis exsiccatis *Junci maritimi*, in Gallia.

604. **Phoma arundinacea** (Berk.) Sacc. *Sphæropsis arundinacea* Berk. 983
Outl. p. 316. — Peritheciis uni-biseriatis, subconnatis; ostiolo obsoleto; sporulis oblongis, 8-10 \approx 3-4, 2-guttatis, hyalinis.

Hab. in culmis *Phragmitis*, in Britannia, Italia et Gallia.

605. **Phoma occulta** Desm. Exs. n. 1868, Kickx Fl. Fl. I. p. 442. — 984

Peritheciis perexiguis, sparsis, tectis, dein erumpentibus et subsuperficialibus, griseo-fuscis; nucleo albo; ostiolo papillato vel conico-cylindraco; sporulis ovoideis, copiosis.

Hab. in culmo putri interiore Phragmitis communis, in Belgio (WESTENDORP) et Gallia (DESMAZIERII).

606. **Phoma rimosa** West. Not. III. p. 13, Kickx Fl. Fl. I. p. 436. 985

— Peritheciis ovoideis, convexis, plus minusve compressis, pluri-seriatis (seriebus approximatis plagulas ovaes formantibus), minutis, nigris, astomis, innatis, epidermide nigricante velatis; nucleo albido; sporulis subcylindracois, angustis, subcurvis, utrinque obsolete 1-guttatis, hyalinis.

Hab. in vaginis siccis Phragmitis communis, prope Gand in Belgio. — Verisimiliter sistit spermogonium *Scirrhia rimosæ*.

607. **Phoma vaginæ** Sacc. Mich. II. p. 617 (sub nomine *Sphæroopsis* 986

vaginæ Rabh. quæ vero *Hendersonia*). — Peritheciis laxè gregariis, tectis, globoso-depressis, $\frac{1}{4}$ mill. diam.; ostiolo vix erumpente; sporulis oblongo-ellipsoideis, 10-15 \approx 2, hyalinis; basidiis bacillaribus sporulâ sublongioribus.

Hab. in vaginis emortuis Phragmitis communis, Lyon in Gallia (THERRY).

608. **Phoma donacella** (Thüm.) Sacc., *Coniothyrium donacinum* 987

Thüm. Contr. Myc. Lusit. n. 340. — Peritheciis aut solitariis aut confluenti-aggregatis, punctiformibus, emersis, atris, minutis; sporulis numerosissimis, simplicibus, ellipsoideis, enucleatis, achrois, 3-4 \approx 1,5.

Hab. in culmis emortuis Donacis arundinacæ, prope Coimbra in Lusitania (MOLLER).

609. **Phoma arundinella** Sacc. — Peritheciis globulosis, immersis, 988

atris; sporulis minutissimis oblongis, 3 \approx 1, hyalinis, basidiis cylindracois crassiusculis suffultis.

Hab. in culmis Arundinis Donacis, socia *Eutypa arundinacea*, Sacc., cujus forte spermogonium. Cfr. Syll. I. p. 169.

610. **Phoma culmicola** Schw. Syn. Amer. bor. n. 2170. — Sparsa, 989

eleganter erumpens, globosa aut elliptico-elevata, fere semilineam alta, extus atra, rugosa, convexa; ore majusculo, albocincto, aperto; disco pallide flavo excavato; massa interna grumosa; juniore ætate epidermide tecta.

Hab. in culmis Andropogonis scoparii, Bethlehem in America bor.

611. **Phoma viridispora** Cooke in Grevillea. — Sparsa, cuticulâ ni- 990

grificatâ tecta; peritheciis applanatis; sporulis cylindrico-ellipticis, rectis, viridibus, 10 \approx 4.

Hab. ad Phormium, Banks' Peninsula, Dunedin in Nova Zelandia. — «An *Coniothyrium?*».

612. **Phoma Phormii** (Cooke) Sacc. *Coniothyrium Phormium* Cooke 991
in Grevillea. — Gregaria, minima, semiimmersa, elongato-fissa;
sporulis hyalinis, ovalibus, 4 \approx 3.

Hab. in foliis Phormii tenacis, in horto botanico Bruxel-
lensi Belgii.

613. **Phoma pelliculosa** B. et Br. F. of Ceyl. n. 801. — Grisea, e 992
matrice secernibilis; peritheciis minutissimis epidermidem elevan-
tibus; ostiolo amplo; sporulis angustis, quam basidio triplo brevioribus,
2,5-3 μ . longis.

Hab. in culmo Bambusæ, Peradeniya in Ceylon.

614. **Phoma linearis** (Thüm.) Sacc. *Coniothyrium lineare* Thüm. 993
Fungi Amer. trig. Spec. n. 12. — Cæspitibus linearibus, secundum
nervos dispositis, atris, inquinantibus; peritheciis, 200-250 μ . d.,
globosis, fusco-lutescentibus, episporio levi, granuloso; sporulis
ellipsoideis, utrinque rotundatis, sine nucleo, hyalinis, interdum
leniter acutatis, 6 \approx 3-4.

Hab. in culmis emortuis Gynerii argentei, Aiken in Carolina austr. (RAVENEL).

615. **Phoma Sacchari** (Cooke) Sacc. *Sphæropsis Sacchari* Cooke in 994
Grev. XII. p. 23. — Sparsa vel in plagas irregulares consociata;
peritheciis atris, subglobosis, erumpentibus; sporulis lanceolatis,
hyalinis, 32-42 \approx 12.

Hab. in culmis Sacchari officinarum, Darien Georgia in Amer. bor. (RAVENEL).

616. **Phoma Ammophilæ** Dur. et Mont. Flor. Alg. p. 564, Mont. Syll. 995
n. 901. — Emergens, globosa, minutissima, myriadea, atra, maculæ
cinereæ insidens; sporulis..... — Species dubia.

Hab. in foliis Ammophilæ arenariæ, La Calle in Algeria (DURIEU),

617. **Phoma graminella** Sacc. Mich. I. p. 127. — Peritheciis grega- 996
riis, subcutaneis, globoso-depressis, $\frac{1}{6}$ - $\frac{1}{5}$ mill. diam., atris, ostiolo
obtusiusculo brevi perforante; contextu peritheci distincte laxius-
cule celluloso, fuligineo; sporulis ovato-fusoideis, utrinque acutius-
culis, rectis, 15-18 \approx 4, hyalinis.

Hab. in foliis Calamagrostidis, ad Helgoland (P. MAGNUS).

— Species a *Ph. biocellata* Mont., *Ph. Graminis* West. et *Sphæroside arundinacea* Berk. certe distinguenda.

618. **Phoma nitida** Rob. Des. 22 Not. p. 8. — Epiphylla, sparsa, mi- 997
nuta, nitida; peritheciis hemisphæricis, intus albis, epidermide de-
mum longitudinaliter fissa obtectis; ostiolo papillæformi; sporulis
subovoideis, 5 μ . longis.

Hab. in foliis exsiccatis Calamagrostidis arenariæ, in Gallia.

619. **Phoma Graminis** West. in Kickx Fl. Flandr. I. p. 441. — Pe- 998
ritheciis globosis vel angulosis, nigris, seriatim dispositis pustulas-
que elongatas formantibus, rugulosis, atro-griseis; ostiolo papilla-
to; nucleo albo; sporulis ovoideis, 1-2-guttulatis, hyalinis, madore
in cirrum expulsis.

Hab. in culmo Poæ cujusdam, in Belgio.

620. **Phoma Hennebergii** J. Kühn Hedw. 1877, p. 121. — Peritheciis 999
sparsis, primo tectis, dein apertis, rotundatis, vertice plerumque
concavis, 100 μ . diam., atris; nucleo albo; sporulis cylindræis
curvulis vel rectis, 14-18 \times 2-2,5, hyalinis.

Hab. in valvis, paleis et aristis Tritici vulgaris æstivi, in Germania.

621. **Phoma lophiostomoides** Sacc. Mich. II. p. 338. — Peritheciis 1000
seriatim et parallele gregariis, compressis, minutis, nigris, ostiolo
subrimoso; sporulis teretiusculis, utrinque rotundatis, 8 \times 1, 2-gut-
tulatis, hyalinis, bacillaribus, 18-24 \times 2, parce et breve ramulosis
suffultis.

Hab. in culmis Tritici vel Secalis, Rouen in Gallia (LE-
TENDRE).

622. **Phoma biocellata** Mont. Syll. n. 973. — Minutissima, innato- 1001
erumpens; peritheciis orbicularibus, depressis, solitariis aut lineari-
seriatis, atris, apice poro pertusis; sporulis oblongis, utroque fine
guttulam foventibus.

Hab. in culmis Graminum, Chile (GAY).

623. **Phoma hysteroidea** B. et Br. F. of Ceyl. n. 803. — Elliptica, 1002
nigra, epidermide cincta, opaca; sporulis oblongis minimis.

Hab. in graminibus Ceylon. — Forte spermogonium *Phylla-
choræ graminis*.

V. In Acotyledoneis.

624. **Phoma aquilina** Sacc. et Penz. Mich. II. p. 615. — Peritheciis 1003
gregariis, subcutaneis, sed parum prominulis, e globoso compres-

siusculis, vix papillatis, $\frac{1}{6}$ mill. diam.; sporulis subellipsoideis, 3,6-4 = 2-2,5, eguttulatis, hyalinis; basidiis subnullis.

Hab. in caule submortuo Pteridis aquilinæ, Lyon in Gallia (THERRY).

625. **Phoma Equiseti** Desm. Exs. n. 183. — Peritheciis sparsis, globosis, punctiformibus, epidermide dealbata tectis, poro pertusis; nucleo fusco; sporulis ovoideis, 2-guttulatis, hyalinis. 1004

Hab. in caulibus exsiccatis Equiseti limosi, arvensis, in Gallia, Belgio et Helvetia. — *Phoma Equiseti* Lév. in Ann. H. N. 1846, p. 282 eadem species videtur.

626. **Phoma epitricha** (B. et Br.) Sacc. *Sphæropsis epitricha* B. et Br. 1005

Ann. H. N. n. 422. — Peritheciis globosis, subiculo furcato-ramoso cinereo insidentibus; sporulis oblongis, diametro transverso triplo longioribus.

Hab. in caule emortuo Equiseti palustris, Wilts in Britannia. — Filamenta mycelii septata, furcata, apice obtusa, vere peculiaria.

627. **Phoma stelligera** Mont. Syll. n. 986 et Mém. sur la multiplicat. 1006
des Charagnes par division, in Ann., 3. XVIII. p. 74, t. 2, f. 13 et 14. — Peritheciis depressis, minutis, dimidiatis, atris; sporulis oblongis, guttulam in utroque fine foventibus.

Hab. ad bulbos peponomorphos vetustos, quibus nodi Charæ (Nitellæ) stelligeræ cinguntur, apud Chabreville (D.^a DUFRENOY) prope Burdigalam (RAMEY).

VI. In insectis, charta, stercore.

628. **Phoma alicola** Speg. Arg. Pug. II. p. 34. — Peritheciis sparsis, lenticularibus, immersis, 80-100 μ . diam., contextu laxo pareachymatico, fuligineo, ostiolo impresso pertusis, atris; sporulis ellipsoideis vel ovatis sæpe inæquilateralibus, utrinque obtusis, 5-8 = 3, granuloso-farctis, hyalinis. 1007

Hab. in alis putrescentibus Fidicinæ (Cicadæ) bonariensis, cerca de Barracas des Sur in Argentina.

629. **Phoma chartarum** B. et C. North Amer. Fungi n. 390. — Sparsa, e subiculo tenero byssoideo oriunda; peritheciis sparsis; sporulis minimis, 3 μ . longis, subinde in cirrum expulsis. 1008

Hab. in charta alba, Alabama in Amer. bor. (BEAUMONT).

630. **Phoma charticola** Speg. F. Arg. Pug. n. 99. — Peritheciis superficialibus, lenticularibus, minutis, 80-90 μ . diam., atris, ostiolo impresso perforatis, membranaceis; contextu parenchymatico, fuli- 1009

gineo; sporulis ellipticis, 4-5 = 2-2,5, utrinque obtusiusculis et 1-guttulatis, hyalinis.

Hab. in charta stercoreata putrescente in nemorosis de la Recoleta in Argentina.

631. **Phoma fimicola** (West.) Sacc. *Sphæropsis fimicola* West. in 1010
Kickx Fl. Fl. I. p. 403. — Peritheciis perexiguis, punctiformibus, sphaericis, nigris, nitidulis, initio immersis, dein superficialibus, ostio-
lo papillato; sporulis ovatis, hyalinis, majusculis, 20-30 = 13-14.

Hab. in fimo vaccino, in Belgio. — Teste auctore pycnidium sistit *Coprolepæ fimeti*.

632. **Phoma stercorearia** P. et C. Rep. on St. Mus. N. Y. — Peri- 1011
theeciis minutis, membranaceis, sparsis, nigris; sporulis majusculis, ellipsoideis, 12-15 μ . longis.

Hab. in stercore anserino, Portage in Amer. bor. (CLINTON).

VII. *Species nomine tantum mihi notæ.*

633. **Phoma Andrachnes** Lév. in Desm. Voy. 110, t. VI. f. 3. — In 1012
Tauria.

634. **Phoma Belangerii** West. Bull. Brux. 1852, III. p. 117. — In 1013
Belgio.

635. **Phoma clandestina** West. Bull. Brux. 1852, III. p. 117. — In 1014
Belgio.

636. **Phoma Dahlia** Berk. in Sm. Fl. Br. V. p. 284. — In Britannia. 1015

637. **Phoma Laricis** Lév. in Demid. Voy. p. 111. t. 4, f. 5. — In 1016
Tauria.

638. **Phoma Podagrariæ** West. Bull. Ac. Brux. 1852, III. p. 116. 1017
— In *Ægopodio Podagraria* in Belgio.

AOSPHÆRIA Berk. Outl. p. 315 emend. Sacc. Mich. II. p. 4 (Etym. *apo* ab, et *Sphæria*). — Perithecia globulosa, papillata, subcarbonacea, superficialia, vel basi ligno vel cortice duriore insculpta. Sporulæ ovoideæ vel oblongæ vel subsphæricæ, continuæ, hyalinæ. Basidia nulla vel exigua. — Est *Phoma* superficialis.

1. **Aosphæria epileuca** (Berk.) Sacc. *Phoma epileuca* Berk. Hook. 1018
Journ. 1853, p. 40, t. III. f. 2. — Maculis indeterminatis, albis; peritheciis elongatis; sporulis hyalinis, majusculis, oblongis, enucleatis, 3-4 μ . longis, subinde uno apice crassioribus.

Hab. in assere pineo dealbato, in Britannia et Sibiria.

2. **Aosphæria pinea** Sacc. Mich. I. p. 126 (*Phoma*). — Peritheciis 1019
dense gregariis, superficialibus, epixylis, globulosis vix papillatis,

80-150 μ . diam., aterrimis; sporulis cylindræis, utrinque acutatis, curvulis, 5 \approx 1, hyalinis.

Hab. in libro putri Pini silvestris, in Germania et Gallia. — *Sphæria pinea* Fuck. Symb. p. 112, nec Desm. (quæ *Diplodia*) est quoque *Phomæ* species: sporulis cylindræis, curvatis, hyalinis, incolitque folia Pini silvestris in Germania.

3. **Aposphæria? hemisphærica** (A. S.) Sacc. *Sphæronæma hemisphæricum* (A. S.) Fr. S. M. II. p. 539, *Sphæria hemisphærica* A. S. Lus. p. 51, t. 8, f. 8. — Peritheciis hemisphæricis, subellipsoideis, levibus, nigris, globulo albo sublivescente; sporulis in globulum sordidum expulsis, filiformibus. 1020

Hab. in ligno indurato fagineo et pineo, in Germania, Suecia et Belgio. — Sparsa, ligno lævigato innata, depressa, æqualis, coronata globulo regulari mox deciduo, tum poro vel rimula hemiellipsoidea aperta. — An novi generis typus?

4. **Aposphæria hysterella** Sacc. *Sphæronæma subtile* B. et C. North Amer. Fungi n. 407. — Hysteriiformis; sporulis minutis, oblongo-ellipticis, 6-7 μ . longis, episporio hyalino ornatis. 1021

Hab. in ligno pineo, Massachusetts Amer. bor. (RUSSELL).

5. **Aposphæria mediella** Karst. Hedw. 1884, pag. 59. — Peritheciis erumpenti-superficialibus, cæspitose aggregatis vel solitariis, difformibus, rotundatis vel angulosis vel depressiusculis, vix papillatis, demum ore lato apertis, contextu carbonaceo, atris 5 μ . lat.; sporulis ovalibus, hyalinis, 4-6 \approx 2-3. 1022

Hab. in cortice Pini silvestris, in Fennia saltem australi passim.

6. **Aposphæria collabascens** Schulz. et Sacc. Micr. Slav. n. 53 (*Ph. collabens*), Schulz. Ill. Fung. Slav. n. 707. — Peritheciis superficialibus, globoso-depressis, 160-250 μ . diam., ostiolo impresso pertusis, atris, denique collabascendo exquisite scutellatis; sporulis oblongis, perexiguis, hyalinis, 2,5-3 μ . longis; basidiis nullis vel obsoletis. 1023

Hab. in ligno ramorum emortuorum Piri communis, prope Vinkovce. — *Phomæ labenti* Sacc. affinis videtur.

7. **Aposphæria clypeata** (C. et Ell.) Sacc. *Phoma clypeata* C. et Ell. Grev. V. p. 33, t. 75, fig. 10. — Peritheciis applanatis, papillatis, nigrocinctis, subsparsis, superficialibus; sporulis minutis, ellipticis, hyalinis, 6 μ . longis. 1024

Hab. in ligno putri, Maine New Jersey Amer. bor. (BLAKE).

8. **Aposphæria Brunaudiana** (Thum.) Sacc. *Phoma Brunaudiana* 1025

Thüm. in Reuve Mycol. — Peritheciis numerosis, lignicolis, lenticulari-subdisciformibus, emersis vel exsertis, aterrims; sporulis numerosis, oblongis, utrinque rotundatis, enucleatis, achrois, 4-5 \approx 2-3.

Hab. in ligno vetusto Fraxini excelsioris, Saintes Gallæ (BRUNAUD).

9. **Aposphæria bicuspidata** (Berk.) Sacc. *Phoma bicuspidata* Berk. 1026

Ann. N. H. n. 740. — Peritheciis elongatis, nigris, minutis, secundum fibras dispositis, initio sparsis, subinde confluentibus; sporulis breve fusoides, 2-guttulatis, 7-8 μ . longis, utrinque papillulatis, hyalinis; basidiis brevibus.

Hab. in asseribus pineis, in Britannia.

10. **Aposphæria allantella** Sacc. et Roum. Reliq. Liber. Ser. IV. n. 1027

83. — Peritheciis gregariis, subsuperficialibus, globoso-depressis, vix papillatis, $\frac{1}{5}$ mill. diam.; sporulis allantoideis, hyalinis, 5-6 \approx 1,5; basidiis obsoletis.

Hab. in ligno putri quercino, in Gallia et Germania.

11. **Aposphæria subtilis** (Fr.) Sacc. *Sphæronæma subtile* Fr. in Myc. 1028

Heft. II, p. 57. — Peritheciis globosis, regularibus, levibus, atris; globulo fugaci, exiguo, albido.

Hab. ad ligna mucida Sorbi, Salicis, Coryli etc. in Suecia et Germania. — Sparsa minuta (sed magnitudine varia), subnatis, levis, forma globosa; apex obtusus, poro pertusus.

12. **Aposphæria agminalis** Sacc. Mich. II. p. 379 (*Phoma*). — Peri- 1029

theciis hinc inde dense et late gregariis, subsuperficialibus, punctiformibus, globoso-conicis, 90-100 μ . diam., pertusis, atro-nitidulis; sporulis ellipsoideis, utrinque obtusis, 3 \approx 2, biguttulatis, hyalinis.

Hab. in ligno indurato *Æsculi Hippocastani*, Padova Ital. bor. (BIZZOZERO). — Ab *A. Pulviscula* Sacc. differt sporulis ellipsoideis, ab *A. fuscidula* Sacc. sporulis pariter ellipsoideis et hyalinis. — *Zignoellæ* cujusdam probabile spermogonium.

13. **Aposphæria Calathiscus** (Corda) Sacc. *Sphæronæma calathiscus* 1030

Corda Icon. IV. p. 40, f. 115. — Peritheciis gregariis, minutissimis, epixylis, convexis, rotundis, membranaceis, fuscis, nitidis; ostiolo centrali obtuse papillato; sporulis oblongis, hyalinis, 6-7 μ . long.

Hab. in asseribus putrescentibus Fagi, Reichenberg Bohemiæ.

14. **Aposphæria Rhododendri** (Schw.) Sacc. *Sphæronæma Rhododen-* 1031

dri Schw. Syn. Am. bor. n. 2141. — Peritheciis sparsis, complanatis, subnatis, ovatis, striatis, nigris; globulo albo deciduo, tum quasi perforata apparent perithecia, ceterum minuta.

- Hab.* in ligno decorticato Rhododendri, Bethlehem Americæ borealis.
15. **Aposphæria mollis** (Lév.) Sacc. *Sphæropsis mollis* Lév. Ann. Sc. 1032
Nat. 1846, p. 295. — Peritheciis gregariis, adnatis, nigris, nudis, hemisphæricis, demum collapsis; ostiolis obsoletis; sporulis ovato-oblongis, obtusis, hyalinis.
Hab. ad ramos Spartii juncei, Marseille Galliæ.
16. **Aposphæria difformis** Sacc. Mich. I. p. 125 (*Phoma*). — Peri- 1033
theeciis gregariis, erumpenti-superficialibus, epixylis, e globoso conoideis difformibusque, $\frac{1}{4}$ - $\frac{1}{2}$ mill. diam., varie breve papillatis, aterrimis, subcarbonaceis; sporulis ellipsoideis, $2\frac{1}{2}$ -3 \approx 2, hyalinis in basidiis fasciculatis, crassiuscule filiformibus, acrogenis.
Hab. in ligno putri Tiliæ? Berolini (P. MAGNUS).
17. **Aposphæria stenostoma** (Penz.) Sacc. Penz. Mich. II. p. 432. — 1034
Peritheciis laxè gregariis, ligno semiimmersis, atro-brunneis, sphæroideis, vix mammillatis, 110-120 μ . diam.; ostiolo minimo, circulari; sporulis minutis, 2,5-3,5 \approx 1,5-2, hyalinis, eguttulatis; basidiis fasciculatis, cylindricis, simplicibus, continuis, 10-12 \approx 1-1,5.
Hab. in ligno vetusto decorticato Citri Aurantii, in frigidariis horti patavini.
18. **Aposphæria sepulta** (Penz.) Sacc. *Phoma sepulta* Penz. Mich. 1035
II. p. 431. — Peritheciis sparsis, ligno immersis, minutissimis, 72-90 μ . d., brunneo-atris; ostiolo obsoleto; contextu parenchymatico; sporulis numerosissimis, exiguis, subsphæricis, 3-3,5 μ . d., hyalinis, biguttulatis; basidiis filiformibus, simplicibus, 10-14 \approx 2-2,5.
Hab. in ligno decorticato Citri Aurantii, in frigidariis horti botanici patavini, rarius.
19. **Aposphæria stigmatospora** Sacc. et Lamb. Misc. Mycol. p. 19. — 1036
Peritheciis subsuperficialibus, hinc inde dense gregariis, globosis, obtuse breve papillatis, atris, $\frac{1}{4}$ mill. diam.; sporulis copiosissimis, globosis, perexiguis 1-1,5 μ . diam., subhyalinis; basidiis acicularibus, 7-9 \approx 1,3, fasciculatis, hyalinis.
Hab. in ramis corticatis emortuis Callunæ vulgaris, Verviers Belgii (LAMBOTTE).
20. **Aposphæria fibrisequa** Sacc. *Aposphæria fibricola* Pass. et Beltr. 1037
F. Sic. n. 22, nec Berk. — Peritheciis superficialibus, pusillis, subglobosis, atris, in collum cylindricum iis subæquilongum vertice protractis; sporulis minutissimis, globosis.
Hab. ad fibras ligneas denudatas Opuntia Ficus Indicæ, Licata Siciliae.

21. **Aposphæria Artemisiæ** (Corda) Sacc. *Sphæronæma Artemisiæ* 1038
Corda Ic. IV. p. 39, f. 114. — Peritheciis gregariis, atris, subglo-
bosis, glabris, subnitidis, superficialibus; ostiolo minuto, subacuto;
globulo minuto albo; sporulis oblongis, utrinque obtusis, hyali-
nis, 3,5-4.
Hab. in radicibus caulibusque imis Artemisiæ Abrotani,
p. Pragam Bohemiæ.
22. **Aposphæria densiuscula** Sacc. et Roum. Reliq. Libert. Ser. IV. 1039
n. 86. — Peritheciis dense gregariis, superficialibus, globosis, co-
nicis variisve, atris, $\frac{1}{4}$ mill. diam.; sporulis ovoideo-oblongis, 5
 \approx 2, hyalinis; basidiis bacillaribus paulo brevioribus.
Hab. in trunco decorticato Brassicæ, in Germania et Gallia.
— Diversa a *Ph. Lingam. oleracea* et *incrustante* quoque bras-
sicolis.
23. **Aposphæria librincola** (C. et H.) Sacc. *Phoma librincola* Cooke 1040
et Harkn. in Grevillea 1881, p. 82. — Exigua, gregaria, inter fi-
brillas nidulans; peritheciis globosis, numerosis, atris; sporulis el-
lipsoideis, continuis, hyalinis, 8-9 \approx 4.
Hab. in libro Acaciæ, areas latas occupans et exasperans, in
California Amer. bor.
24. **Aposphæria labens** Sacc. Mich. I. p. 125 (*Phoma*). — Perithe- 1041
ciis gregariis, superficialibus, $\frac{1}{4}$ mill. diam., globosis, vix papilla-
tis, membranaceo-molliusculis, dein collabascendo excavatis, fuli-
gineo-atris; sporulis cylindræis, 4 \approx 1, lenissime curvulis, hyali-
nis, basidiis filiformibus, fasciculatis sporulâ duplo longioribus,
8 \approx 1, ex strato prolifero celluloso fuligineo oriundis fultis.
Hab. in libro v. ligno Robiniæ Pseudacaciæ, Quercus
etc., in Italia, Germania, Gallia. — *Phomæ seriatae* (Pers.) affinis.
25. **Aposphæria fuscidula** Sacc. Mich. II. p. 271 (*Phoma*). — Peri- 1042
theciis ligno basi infossis gregariis, globoso-conoideis, papillulatis,
atris; sporulis oblongis, utrinque obtuse rotundatis, 3-4 \approx 1 $\frac{1}{2}$ -2,
2-guttulatis, e hyalino flavidulis.
Hab. in ramis decorticatis Sambuci nigræ, Cadore Italiæ
borealis. — Forte spermogonium *Melanommatis fusciduli* Sacc.
26. **Aposphæria fibriseda** (C. et Ellis) Sacc. *Phoma fibriseda* C. et 1043
Ellis in Grevillea. — Peritheciis gregariis, immersis; ostiolo bre-
ve emergente; sporulis *Phomæ* (Cooke).
Hab. in ramis decorticatis Rhos venenatæ, New Jersey
Amer. bor. — Habitus totus *Sphæropsidis fibrisedæ* C. et E.,
sed sporulæ *Phomæ*.

27. **Aposphæria fusco-maculans** Sacc. Mich. II. p. 275 (*Phoma*). — 1044
 Peritheciis late gregariis, ligno superficie infuscato, semi- v. fere totis immersis, $\frac{1}{5}$ mill. diam., globulosis v. subcompressis, nigris; ostiolo obsoleto; sporulis oblongis, utrinque rotundatis, $5 \approx 1-1\frac{1}{4}$, dilutissime olivaceis, basidiis fasciculatis deorsum incrassatis, $8 \approx 2$, hyalinis suffultis.
Hab. in ligno decorticato Piri Mali, in Italia bor. — Affinis *Aposph. fusciculæ* Sacc., a qua basidiis, matrice infuscata etc. satis recedere videtur.
28. **Aposphæria macrosperma** (Cooke et Harkn.) Sacc. *Sphæropsis* 1045
macrosperma Cooke et Harkn. in Grevillea n. 64. — Superficialis sparsa; peritheciis subglobosis, atris, punctiformibus, levibus, vix papillatis; sporulis magnis, ellipticis, utrinque rotundatis, hyalinis, $32-40 \approx 12$, granulis repletis, episporio crasso.
Hab. in cortice dejecto Eucalypti, in California.
29. **Aposphæria cava** Sacc. et Schulz. Micr. Slav. n. 50. Schulz. III. 1046
 Fung. Slav. n. 103. — Peritheciis subsuperficialibus, globoso-depressis, vertice obtusissimo minute pertusis, atris, $\frac{1}{3}-\frac{1}{6}$ mill. diam., intus cavis; sporulis breve cylindræis, utrinque truncatis, $3\frac{1}{2} \mu$. longis, hyalinis; basidiis bacillaribus, triplo longioribus, hyalinis.
Hab. in ramis corticatis Cydoniæ vulgaris, pr. Vinkovce.
30. **Aposphæria Mori** (Mont.) Sacc. *Phoma Mori* Mont. Cent. VI. n. 1047
 88, in Ann., 3, XII. p. 306. Syll. n. 975. — Peritheciis dimidiatis, minutissimis, superficialibus, conico-hemisphæricis, apice poro pertusis, tandem circumscisso-deciduis; sporulis erectis brevibus sporas oblongo-fusiformes, $5-6 \mu$. longas sustinentibus.
Hab. in ligno decorticato Mori albæ, Perpignan Galliæ.
31. **Aposphæria Prillieuxiana** Sacc. et Roum. Reliq. Lib. V. n. 84. — 1048
 Peritheciis densissime gregariis, superficialibus, globoso-conicis, obtuse papillatis, majusculis, $\frac{3}{4}$ mill. diam., atris, subcarbonaceis; sporulis oblongis, utrinque rotundatis, $6 \approx 2$, $5-3$, medio rarius lenissime coarctatis, hyalinis; basidiis bacillaribus, subæquilongis, fasciculatis.
Hab. in ligno putrescente Vitis, in Gallia et Germania.
32. **Aposphæria inconspicua** (Desm.) Sacc. *Sphæria inconspicua* Desm. 1049
 Nouv. n. 1843, p. 20. — Peritheciis superficialibus, microscopicis, confertissimis, subglobosis, atris, levibus, nitidis, astomis, maculæ indeterminatæ fuliginæ insidentibus; sporulis minutissimis, $3-4 \mu$. longis, 2-guttatis.
Hab. ad corticem truncorum Aceris platanoidis, in Gallia.

33. **Aposphæria inophila** (Berk.) Sacc. *Ph. inophila* Berk. Ann. N. 1050
Hist. n. 735. — Maculis indeterminatis, sericeo-nitidulis; peritheciis oblongis; sporulis oblongis, minutissimis, utrinque 1-guttulatis, 1.5-2 μ . longis, hyalinis.

Hab. in asseribus Aceris, in Britannia.

34. **Aposphæria seriata** (Pers.) Sacc. *Sphæria seriata* Pers. Ic. pict. 1051
t. 16, f. 2. — In seriem elongatam conferta, atra; peritheciis minutis, mollibus, rugulosis, orbiculatim depressis, papillatis; sporulis minutis, oblongis, hyalinis.

Hab. in ligno molli quercino, in Gallia, Suecia.

35. **Aposphæria Pulviscula** Sacc. Mich. I. p. 258 (*Phoma*). — Peri- 1052
theciis subsuperficialibus epixylis, gregariis, subglobosis, papillulatis, 100 μ . diam.; contextu minute parenchymatico fuligineo; sporulis oblongis, minutissimis, 4-4.5 = 1.5-2, hyalinis, basidiis, 5-8 = 2, sursum attenuatis suffultis.

Hab. in ligno udo et in cortice duriore salicino, in Italia et Gallia. — Probabiliter status *Melanommatis Pulvisculæ*. — *Aposphærie pineæ* Sacc. affinis.

36. **Aposphæria ulmicola** (Berk.) Sacc. *Phoma ulmicola* Berk. Ann. 1053
N. H. n. 737. — Peritheciis dense hinc inde gregariis, plagulasque oblongas minutas brunneas gignentibus; sporulis minutis, ellipsoideis, hyalinis, 2 μ . long., nucleis obsoletis.

Hab. in asseribus Ulmi, in Britannia.

37. **Aposphæria mucifera** (Berk.) Sacc. *Phoma mucifera* Berk. Ann. 1054
N. H. n. 736. — Peritheciis sparsis, oblongis; sporulis minutissimis, muco persistente involutis, oblongis, biguttulatis, hyalinis, demum cirrose expulsis.

Hab. in asseribus Ulmi, in Britannia.

38. **Aposphæria glomerata** (Corda) Sacc. *Coniothyrium glomeratum* 1055
Corda Ic. IV. f. 108. — Peritheciis in cæspitulos minutos nigros congregatis, superficialibus convexis, rugulosis, brunneis; sporulis oblongis, utrinque rotundatis, hyalinis, 5-6 μ . longis.

Hab. in asseribus lignisque Ulmi, etc. in Bohemia et Britannia.

39. **Aposphæria consors** Schulz. et Sacc. Micr. Slav. n. 52. Schulz. 1056
Ill. Fung. Slav. n. 841. — Peritheciis superficialibus, v. basi ligno infossis, globoso-depressis, minutis, 170 μ . diam., nigris, intus pallidis; sporulis ellipsoideis, hyalinis, 5-6 μ . longis; basidiis non visis.

Hab. in ramis decorticatis Ulmi suberosæ, socia *Eutypa polymorpha*, cujus forte spermogonium, pr. Vinkovce.

40. **Aposphæria minutula** (Peck.) Sacc. *Coniothyrium minutulum* 1057
Peck Bot. Gaz. 1880, p. 33. — Peritheciis minutis, sparsis, sub-
globosis v. depressis, atris, 150-160 μ . diam.; sporulis minutis,
ovato-oblongis v. ellipsoideis, hyalinis, 3,5-4 \approx 2.
Hab. in ligni durioris superficie dealbata, Vermont Amer.
bor. (PRINGLE). — Peritheciis pars superior tandem decedit.
41. **Aposphæria fibricola** (Berk.) Sacc. *Phoma fibricola* Berk. Ann. 1058
N. H. n. 739. — Maculis indeterminatis; peritheciis sparsis v.
hinc inde aggregatis, secundum fibras dispositis; sporulis ovoideis
v. subellipsoideis, 6 μ . longis, chlorinis, enucleatis.
Hab. in ligno Quercus, Fraxini, Ulmi, Populi, Cupres-
si, in Britannia, Belgio, America boreali. — Affinis *Coniothyrio*.
42. **Aposphæria collabens** (B. et C.) Sacc. *Sphæropsis collabens* B. 1059
et C. North Am. F. n. 419. — Peritheciis nudis, collabentibus, ni-
tidis, nigerrimis; papilla centrali; sporulis allantoideis, hyalinis.
Hab. in ramis decorticatis, New England Am. bor. (MURRAY).
— Perithecia demum *Discosiam* fere æmulantia.
43. **Aposphæria oxystoma** Sacc. et Roum. Reliq. Lib. V. n. 85. — 1060
Peritheciis gregariis, subsuperficialibus, globoso-conicis, acute pa-
pillatis, atro-nitidulis, fere $\frac{1}{2}$ mill. diam.; sporulis oblongo-tere-
tiusculis, 3 \approx 1, hyalinis; basidiis obsoletis.
Hab. in fragmentis ligneis, in Gallia et Germania.
44. **Aposphæria arctica** (Karst.) Sacc. *Phoma arctica* Karst. Hedw. 1061
1884, p. 19 (nec Berk.). — Peritheciis gregariis, erumpenti-super-
ficialibus, rotundatis, ut plurimum subsphæroideis, astomis, atris,
4-5 μ . diam.; sporulis sphæroideis vel ovoideis, hyalinis, diam. 1,5
-3 vel 2-4 \approx 1-2.
Hab. ad lignum vetustum in insula Maris-glacialis, Kildin.
45. **Aposphæria Papillula** Sacc. et Roum. Reliq. Lib. V. n. 82. — 1062
Peritheciis gregariis, superficialibus subcarbonaceis, nigris, globo-
sis, distincte papillatis, $\frac{1}{3}$ mill. diam.; sporulis oblongo-tereti-
usculis, utrinque obtusiusculis, 6-8 \approx 2; basidiis subnullis.
Hab. in ligno putri, in Gallia et Germania.
46. **Aposphæria Petersii** (B. et C.) Sacc. *Phoma Petersii* B. et C. 1063
North Am. F. n. 377. — Erumpens, demum superficialis, hyste-
riiformis, in ligno dealbato sita; sporulis ellipticis, binucleatis, 7-
8 μ . longis.
Hab. in ligno aeri diu exposito dealbatoque, Alabama Amer. bor.
— Ab *A. epileuca* sporulis duplo majoribus differt.
47. **Aposphæria umbonata** (Preuss) Sacc. *Phoma umbonata* Preuss 1064

F. Hoyersw. n. 279. — Peritheciis subconicis, papillatis, atris; nucleo pulposo albo; sporulis ovatis albis, in medio guttulam oleosam continentibus.

Hab. ad ligna exsiccata, Hoyerswerda.

48. **Aposphæria Pomi** Schulz. et Sacc. Microm. Slav. n. 51, Schulz. 1065
Ill. Fung. Slav. n. 146. — Peritheciis superficialibus dense gregariis, globoso-hemisphæricis, $\frac{1}{10}$ - $\frac{1}{6}$ mill. diam., vertice obtusis, pertusis, basi hyphis fuliginosis filiformibus, septatis cinctis; sporulis ovato-oblongis, 2 raro 1-3-guttatis, 6-8 \approx 2-3, hyalinis; basidiis..... non visis.

Hab. in epicarpio putrido Mali, Vinkovce.

49. **Aposphæria subtilis** (Corda) Sacc. *Coniothyrium subtile* Corda 1066
Ic. IV. p. 38, fig. 107. — Gregaria, minutissima, punctiformis; peritheciis convexis, rugulosis, atris, dein laciniato-ruptis; sporulis minutis ovoideis, hyalinis, 3-4 μ . longis.

Hab. in ligno ramorum emortuorum arborum frondosarum, Reichenberg in Bohemia.

50. **Aposphæria Putaminum** (Speg.) Sacc. *Phoma Putaminum* Speg. 1067
Mich. II. p. 275. — Peritheciis globoso-diformibus, superficialibus, atris, carbonaceis, ostiolo difformi donatis, 150-180 μ . diam.; sporulis copiosis, e globoso ovoideis, non vel 1-guttulatis, chlorinis, $2\frac{1}{2}$ - $3\frac{1}{2}$ \approx $1\frac{1}{2}$ -2.

Hab. in parte interiore putaminum putrescentium Persicæ vulgaris, in hortis, Belluno Ital. bor.

51. **Aposphæria suberina** Sacc. Mich. II. p. 338 (*Phoma*). — Peritheciis gregariis subsuperficialibus, hemisphæricis, $\frac{1}{6}$ mill. diam., subinæqualibus, vix papillatis, nigris; sporulis oblongo-ellipsoideis, 5-6 \approx 2, 2-guttulatis, hyalinis.

Hab. In subere (ad usum obturaculi) udo putrescente, Lyon Gallicæ (THERRY).

52. **Aposphæria? schizothecioides** (Pr.) Sacc. *Sphærocista schizothecioides* Preuss Hoyersw. n. 34. — Peritheciis solitariis, atris, basi contractis, floccosis, tum tumido-conicis, dein apice scissis; nucleo mucoso; cirro longo filiformi; basidiis filiformibus; sporulis longis cylindricis, curvatis, albis.

Hab. in ligno decorticato Callunæ vulgaris, Hoyerswerda. 1070

53. **Aposphæria subcrustacea** Karst. Symb. Myc. XV. p. 154. — Peritheciis superficialibus, confertissimis, ovoideis v. sphæroideo-ovoides, vertice in ostiolum conoideum brevissimum attenuatis, nitidis,

levibus, glabris, 300 μ . diam.; sporulis fusoideo-oblongatis, vulgo rectis, 2-guttulatis, hyalinis, 6-7 \approx 1,5-3.

Hab. in ligno Pruni Padi in Mustiala Fennicæ.

DENDROPHOMA Sacc. Mich. II. p. 4. (Etym. *dendron* arbor, et *Phoma*, ob basidia ramosa). — Perithecia subcutanea, raro superficialia (*Dendrophomella*), subglobosa, papillata, membranaceo-carbonacea, calva. Sporulæ oblongæ vel ovoideæ vel suballantoideæ, hyalinæ. Basidia verticillato- (raro simpliciter) ramosa, acicularia.

I. *Eu-Dendrophoma*.

Perithecia subcutanea.

1. **Dendrophoma orientalis** Sacc. et Penz. Mich. II. p. 619. — Peritheciis 1071 laxe gregariis, globoso-depressis, $\frac{1}{4}$ mill. diam., pertusis, epidermide velatis; basidiis fasciculatis, sursum vage vel subverticillato-ramosis, 15-20 \approx 1-1,5; sporulis cylindræis, utrinque rotundatis, 3,5-4 \approx 0,5-1, hyalinis, plerumque rectis.

Hab. in ramulis Kerriæ japonicæ, Brionne Gallicæ (MALBRANCHE).

2. **Dendrophoma Sambuci** (B. et C.) Sacc. *Sphæroncema Sambuci* B. 1072 et C. North Amer. F. n. 408. — Peritheciis sparsis, erumpentibus, obtusis; sporulis minutis, oblongis, curvulis; basidiis ramosis.

Hab. in ramis Sambuci, Maine Amer. bor. (J. BLAKE).

3. **Dendrophoma Rhododendri** (Roum.) Sacc. Mich. II. p. 336, *Cytil- 1073 spora Rhododendri* Roum. p. p. — Peritheciis gregariis, subcutaneis, intus albis, minutis, vix erumpentibus; sporulis perexiguis teretiusculis, 4 \approx $\frac{1}{2}$, hyalinis, copiosissimis, basidiis bacillaribus, sæpe verticillato-ramulosis, 10-15 \approx $\frac{3}{4}$, suffultis.

Hab. in ramis Rhododendri pontici, socia *Diplodia*, Tarbes Gallicæ.

4. **Dendrophoma pleurospora** Sacc. Mich. II. p. 362. — Peritheciis 1074 sparsis, globoso-conicis, pertusis, nucleo pallido, 140-200 μ . diam., contextu parenchymatico, pallide fuligineo; sporulis breve cylindræis, 4-4 $\frac{1}{2}$ \approx 1-1 $\frac{1}{2}$, ad latera et apicem basidorum bacillarium, 30-50 \approx 2 $\frac{1}{2}$ -3 $\frac{1}{2}$, rectorum sessiliter adnatis, obliquis.

Hab. in ramis corticatis variis, in Italia et Gallia. — Adsunt plures formæ: **laurina**: basid. 30-40 \approx 3; sporul. 4 \approx 1 $\frac{1}{2}$. In foliis Lauri nobilis. — **ribesia**: basid. 50 \approx 3-3 $\frac{3}{2}$; sporul. 4 \approx 1. In ramis Ribis rubri. — **vitigena**: basid. 30-40 \approx 2; sporul. 4-5 \approx 1 $\frac{1}{2}$ -2; perith. nucleo griseo. In sarmentis Vitis æstivalis.

- **quercina**: basid. $60 \approx 3$; sporul. $5 \approx 1\frac{3}{4}$. In ramis quercinis.
- **Rosiflorarum**: basid. $50-55 \approx 3$; sporul. $4 \approx \frac{3}{4}$. In ramis Rosæ et Pruni.
5. **Dendrophoma valispora** Penz. Mich. II. pag. 433. — Peritheciis 1075
sparsis in aridis foliorum maculis, globosis, epidermide tectis, $250-280 \mu$. d., ostiolo prominente, contextu parenchymatico, atro-brunneo; sporulis cylindricis, curvulis, utrinque rotundatis, minimis, $3-3,5 \approx 0,5-1$, hyalinis; basidiis fasciculatis, verticillatim ramosis, hyalinis, $15-18 \approx 1-1,5$.
- Hab.* in foliis vivis Citri Limonum in frigidariis R. Horti Botanici Patavini. — Var. **ramulicola** Sacc. Reliq. Lib. V. n. 88. In ramulis salicinis in Gallia.
6. **Dendrophoma aspera** (Lév.) Sacc. *Sphæropsis aspera* Lév. Ann. 1076
Sc. Nat. 1846, p. 295. — Peritheciis minutissimis, gregariis, adnatis, globosis, nigris, ostiolis nullis; sporulis ovato-elongatis pellucidis, utrinque obtusis; basidiis ramosis.
- Hab.* ad ramos Cerasi Padi prope Lyon Galliæ (De TIMMEROY).
7. **Dendrophoma pruinosa** (Fr.) Sacc. *Sphæria pruinosa* Fr. S. M. 1077
II. p. 486, *Cytispora* (Phoma?) *pruinosa* Sacc. Mich. I. p. 519. — Gregaria; peritheciis tectis, depressis, epidermide adnatis, griseo-pruinosis, ostiolis bullato-erumpentibus; sporulis allantoides, $5-7 \approx 0,5-1$, e hyalino luteolis; basidiis verticillato-ramosis, sporula 4-5-plo longioribus.
- Hab.* in ramis corticatis Fraxini in Italia, Suecia, Gallia, Germania, Britannia, Am. bor. — β . **Lantanæ** Sacc. Mich. I. p. 519: peritheciis globosis, nigro-farctis ostiolo subprominulo, nigro, albedo-pruinoso-anulato; sporulis $5 \approx 1$. In ramulis Viburni Lantanæ, in Gallia.
8. **Dendrophoma alba** (Pr.) Sacc. *Sphærocista alba* Preuss Fungi 1078
Hoyersw. n. 307. — Cortici insidens; peritheciis coriaceo-corneis, subglobosis, pertusis, cum villo substrigoso subiculari corticem penetrante, nucleo albedo; basidiis longis, furcatis; sporulis oblongo-cylindricis, utrinque obtusis, albis.
- Hab.* in cortice Fraxini pendulæ, Hoyerswerda.
9. **Dendrophoma myriadea** (Pr.) Sacc. *Phoma myriadea* (Pr.) Sacc. 1079
Sphærocista myriadea Preuss F. Hoyersw. n. 41. — Gregaria; peritheciis innato-prominulis applanatis, minimis, astomis, nigris, in macula inæquali insidentibus; basidiis longis, simplicibus, dichotomis; sporulis elongatis, continuis, albis.

Hab. ad folia *Quercus*, Hoyerswerda.

10. **Dendrophoma crassicollis** Schulz. et Sacc. Microm. Slav. n. 34, 1080
Schulz. Ill. Fung. Slav. n. 842. — Peritheciis laxè gregariis, glo-
boso-depressis, $\frac{1}{2}$ mill. crass., peridermo tectis, intus pallidis, ostiolo
conico, obtuso vix erumpente; sporulis suballantoideis, hyalinis, 5-6
 ≈ 2 , hyalinis; basidiis sporulâ triplo longioribus, filiformibus, fur-
catis ramosisve.

Hab. in ramis corticatis Fraxini excelsioris prope Vin-
kovce. — Videretur *Cytospora* simplex.

11. **Dendrophoma merizophila** (Pr.) Sacc. *Sphærocista merizophila* 1081
Preuss F. Hoyersw. n. 40. — Erumpens, gregaria, simplex; peri-
theciis rotundato-lentiformibus, atris, perforatis; pulpa sporulosa
per ostiolum in persico-rubrum globulum expulsa; basidiis longis,
continuis, ramiformibus divisis; sporulis minutis, cylindricis, sub-
curvatis, continuis, albis.

Hab. in ramulis arborum frondosarum dejectis, Hoyerswerda.

II. *Dendrophomella*.

Perithecia superficialia (cfr. *Aposphaeria*).

12. **Dendrophoma cytosporoides** Sacc. Mich. II. p. 273. — Peritheciis 1082
sparsis vel hinc inde subaggregatis, globoso-conoideis, superficia-
libus, nigris; contextu anguste prosenchymatico; sporulis botuli-
formibus, 5-6 $\approx 1-1\frac{1}{2}$, hyalinis, basidiis fasciculatis, verticillato-
ramosis, acicularibus, 3-4-plo longioribus suffultis.

Hab. in ramis decorticatis *Deutzia scabra*, Saintes (BRU-
NAUD), et Ulmi, Rouen Gallia (LETENDRE), ubi perithecia denique
cupulato-collapsa videntur. — ***punicina** Sacc.: peritheciis initio
subcutaneis, denique erumpentibus, papillatis; sporulis allantoideis,
4 $\approx 1\frac{1}{4}$, 2-guttulatis, hyalinis, basidiis simpliciter verticillatis, de-
orsum attenuatis, 10 ≈ 2 , suffultis. — In ramis corticatis *Punica*
Granati, Padova.

13. **Dendrophoma Therryana** Sacc. et Roum. Mich. II. pag. 336. — 1083
Peritheciis superficialibus vel erumpenti-superficialibus, gregariis
vel hinc inde subaggregatis, globoso-inæqualibus, atris, $\frac{1}{4}-\frac{1}{3}$ mill.
diam., vix papillatis; sporulis ovoideis, 3 ≈ 1 , basidiis verticillato-
ramosis, acicularibus, 25 ≈ 1 , suffultis.

Hab. in cortice Platani (?) in horto botanico Lyon Gallia
(THERRY), in ligno quercino et populino in Arduennis (LIBERT).
— Forma **Castaneæ** Sacc. l. c.: sporulis 3 ≈ 1 ; basidiis 15-20 ≈ 1 ,

peritheciis subsuperficialibus. In trunco Castaneæ, Conegliano Italiæ bor.

14. **Dendrophoma Pulvis-pyrius** Sacc. F. V. N. Ser. III. sub n. 18. 1084
— Peritheciis globulosis, subdepressis, exiguis vix papillatis, subirregularibus; sporulis minimis, cylindraceis, 3-4 \approx 0,7, hyalinis; basidiis semel vel bis verticillato-ramulosis, 18-25 \approx 1.

Hab. in lignis corticibusque crassioribus Piri, Alni, Carpini, Quercus, Robiniæ in Italia et Gallia.

15. **Dendrophoma populina** Schulz. et Sacc. Micr. Slav. n. 37, Ill. Fung. 1085 Slav. n. 8. — Peritheciis gregariis, tenue membranaceis, globoso-depressis, lignicolis, crustula stromatica atra basi infossis; basidiis dichotomo-ramosis, denticulatis, hyalinis; sporulis cylindraceis, utrinque obtusis, rectiusculis, acro-pleurogenis, basidio 5-6-plo brevioribus, hyalinis.

Hab. in ramis decorticatis populinis, Eperjes Slavoniæ.

16. **Dendrophoma lignorum** Schulz. et Sacc. Micr. Slav. n. 35, Schulz. 1086 Ill. Fung. Slav. n. 620. — Peritheciis gregariis, minutis, superficialibus, globosis, vertice acutiuscule papillatis, 0,16 \approx 0,20 mill. d., atris; sporulis teretiusculis, utrinque obtusis, hyalinis, 4 μ . long., basidiis filiformibus, ramosis suffultis.

Hab. in ligno Populi albæ superficie dealbato, prope Vinkovce Slavoniæ.

17. **Dendrophoma juglandina** Schulz. et Sacc. Micr. Slav. n. 36, Schulz. 1087 Ill. Fung. Slav. n. 162. — Peritheciis subsuperficialibus, gregariis, globoso-conicis, $\frac{1}{5}$ mill. diam., obtuse papillatis, nigris, intus albidis; sporulis oblongis, utrinque rotundatis, 4 μ . long., hyalinis; basidiis repetito-dichotome ramosis, sporulâ 8-plo longioribus, hyalinis.

Hab. in ligno emortuo Juglandis prope Vinkovce Slavoniæ.

18. **Dendrophoma australasica** Speg. F. Argent. Pug. III. n. 101. — 1088 Peritheciis subsuperficialibus, densiuscule sparsis, globosis, atrofuscescentibus, minutis, $\frac{1}{4}$ - $\frac{1}{5}$ mill. d., in sicco umbilicato-corrugatis, duriusculis, carnosomembranaceis, contextu densissime parenchymatico, fuligineo; basidiis filiformibus, hyalinis, verticillatim ramulosis, 20-40 \approx $\frac{1}{2}$ -1; sporulis ellipticis v. cymbiformibus, utrinque acutiusculis, hyalinis, simplicibus, 6-8 \approx 1-1 $\frac{1}{2}$.

Hab. ad folia dejecta putrescentia Eucalypti Globuli en el Parque de Palermo Argentinae in Amer. austr.

19. **Dendrophoma hormococcoides** Sacc. et Penz. Mich. II. p. 619. 1089
— Peritheciis sparsis, globulosis, subsuperficialibus, $\frac{1}{4}$ - $\frac{3}{4}$ mill. d.,

atris; contextu prosenchymatico sursum evanescente, ostiolumque amplum limitante; basidiis prælongis dense fasciculatis, 70-100 \approx 0,5-1, pluries stricte furcatis, apice truncatis, hyalinis; sporulis acrogenis teretiusculis, utrinque rotundatis v. subtruncatis, rectiusculis, 3,6-4 \approx 1, eguttatis, hyalinis.

Hab. in culmo inundato Phragmitis sub cortice et in pariete interiore, Lyon Galliæ (THERRY). — Ad *Hormococcum* vere nutat.

20. **Dendrophoma eumorpha** Sacc. et Penz. Mich. II. p. 619. — Peritheciis subsuperficialibus, globosis, papillatis, dein collabascendo umbilicatis, nigris, nitidulis, $\frac{1}{2}$ mill. diam., membranaceo-carbonaceis; sporulis teretiusculis, subrectis, perexiguis, 2,5-3 \approx 0,5-0,7; basidiis vage ramulosis denticulatisque filiformibus, septulatis, sporulâ multoties longioribus.

Hab. in parte interiore corticis Pinorum, Le Sapey (Isère) Galliæ (THERRY).

21. **Dendrophoma microsperma** (Pr.) Sacc. *Sphærocista microsperma* 1091
Preuss F. Hoyersw. n. 309. — Peritheciis arachnoideis, albis, supra calvis, atris, conicis, papillatis, obtusis, corneis; basidiis ramosis, longissimis, filiformibus, continuis, albis; sporulis minutis, ovatis, albis; episporio nullo.

Hab. ad ramos decorticatos, Hoyerswerda.

22. **Dendrophoma hydrophila** Karst. Hedw. 1883, p. 180. — Peritheciis sparsis vel laxe gregariis semi-immersis elongatis, hysteroideis vel rotundatis, glabris, atris, majusculis; sporulis ovoideis, 1-2-guttulatis, hyalinis, 20-25 \approx 10-14, siccis ovoideo-rotundatis, vel subsphæroideis, 12-18 \approx 12; basidiis crassiusculis («ramosis?»).

Hab. ad ligna parietina sæpe irrorata in Fennia australi. — «An potius *Aposphæria*?».

ASTEROMELLA Pass. et Thüm. in M. U. n. 1689. (Ety. ab *Asteromate*, cujus habitum præbet). — Perithecia globulosa, minuta, sæpius phyllogena, in maculas asteromatoideas atras dense disposita. Sporulæ ovoideæ v. subcylindricæ, hyalinæ, continuæ. — Habitus *Asteromatis*, sed fibrillæ genuinæ nullæ.

1. **Asteromella ovata** Thüm. in M. U. n. 1689. — Peritheciis numerosis, maculam obscuram efficientibus, dense gregariis, hypophyllis, globosis, emersis, atris; sporulis numerosissimis, ovoideis, utrinque rotundatis vel subtruncatulis, rectis, simplicibus, hyalinis, 2,5-3 \approx 1,5-2.

Hab. ad folia emortua prostrata Aceris Pseudoplatani, Klosterneuburg Austriae.

2. **Asteromella bacillaris** Pass. et Beltr. F. Sic. n. 24. — Peritheciis 1094 superficialibus granuliformibus, sparse vel laxe gregariis, præsertim secus nervos et venas; sporulis minutissimis, bacillaribus, tranquillibus, hyalinis, $2\frac{1}{2}$ -3 \approx $\frac{3}{4}$ -1.

Hab. ad folia arida dejecta Mori nigræ, Licata Siciliae.

PIPTOSTOMUM Lév. Ann. Sc. Nat. 1846, p. 65. (Etym. *pipto*, cado et *stoma*), *Piptostroma* Fr. Summa Veg. Scand. p. 409, non *Piptostoma* B. et Br. F. of Ceyl. n. 1135, quia ascigerum. — Perithecia carbonacea rigida, globosa, demum circumscissa parteque superiore decedente, nucleo celluloso-lobato. Sporulae continuæ ellipsoideæ, hyalinæ, pedicellis suffultæ, (ascis nullis). — *Cytosporæ* analogum genus videtur.

1. **Piptostomum domingense** Lév. l. c. — Erumpens, gregarium; peritheciis subglobosis, 1-2 mill. diam., rugosis, nigris, demum late apertis, nucleo albo lobato; sporulis ovato-ellipsoideis, continuis, hyalinis, pedicellatis. 1095

Hab. ad cortices in Hispaniola seu S. Domingo.

CROCICREAS Fr. Summa Veg. p. 418. (Etym. *crocis* floccus et *creas* caro, ob naturam perithecii). — Perithecia libera, turbinata, carnosocornea, extus intusque floccoso-fibrosa, ore umbilicata. Sporulae oblongæ v. cylindræ, hyalinæ. Basidia ramosa filiformia.

1. **Crocicreas gramineum** Fr. Summa p. 418, *Perisporium gramineum* Fr. S. M. III. p. 249. — Adnatum, turbinatum, demum umbilicato-pertusum, opacum, e testaceo nigrum, basi floccis radiatis præditum; sporulis in basidorum ramosorum apicibus cylindræ, rectis, continuis, hyalinis, 12 \approx 2. 1096

Hab. ad folia emarcida Holci aliorumque Graminum in Suecia, Germania. — Omnino superficiale, sed firmiter adnatum, rigidum, ut folium, cui innascitur, tactu exasperet. Reliquis melius evolutum, licet puncto non majus sit, frequenter sparsum, nulla macula cinctum, demum evidenter pertusum. Colores e flavescente fuscoque nigrescentes.

2. **Crocicreas giganteum** Mont. Fl. Chil. VII. p. 844, t. 9, f. 7, Syll. 1097 n. 957. — Peritheciis gregariis, liberis, corneis, turbinatis, atris, apice umbilicatis, tandem late apertis, disco albo farinoso; sporulis globosis pedicellatis.

Hab. ad ramos arborum in Chile (GAY).

3. **Crocicreas corticolum** Bon. Abhandl. p. 139. — Peritheciis globosis, adnatis, rugulosis, basi pilis hyalinis, albidis vestitis; ostiolo late aperto; sporulis hyalinis, oblongis; basidiis simplicibus lanceolatis. 1098

Hab. in ramis siccis dejectis in Guestphalia Germaniæ. — «Dubia species».

PYRENOTRICHUM Mont. Syll. p. 267, Ann. Sc. Nat. 1843, XX. p. 376.

(Etym. *pyrenium* seu perithecium et *thrix*, floccus seu basidium). — Perithecia membranacea, subsphærica cupulari-depressa, sessilia atra, demum circumscissa. Nucleus gelatinosus, e floccis myriadeis subcontinuis (cincinnatis) acrosporibus compositus. Sporulæ oblongæ, continuæ, hyalinæ.

1. **Pyrenotrichum Splitgerberi** Mont. Ann. Sc. Nat. l. c. p. 377, t. 16, f. 2. — Characteres iidem ac generis. Perithecium semen sinapeos æquans. Sporulæ 5 = 2. 1099

Hab. ad crustam Lichenum parasitans, in cortice *Cerberæ Thevetiæ* in Surinam (SPLITGERBER).

SCLEROTIOPSIS Speg. F. Arg. Pug. IV. n. 282 (Etym. a *Sclerotio*, quod mentitur). — Perithecia tecta, immersa, parenchymati innata, amphigena, carnosulo-membranacea, majuscula, astoma. Sporulæ ellipticæ, utrinque lateraliter acutato-angulatæ, in basidiis filiformibus, monospermis acrogenæ.

1. **Sclerotiopsis australasica** Speg. Arg. Pug. IV. n. 282. — Peritheciis parenchymati immersis, epidermide tectis, amphigenis, irregulariter lenticularibus, majusculis, 0,5-1,5 mill. diam., astomis, crassiuscule membranaceis, contextu indistincte parenchymatico, olivaceo; basidiis e strato prolifero oriundis, dense constipatis, filiformibus, simplicibus, 25 = 1, monosporis, hyalinis; sporulis cylindraceo-subnavicularibus, 7-8 = 1,5-2, utrinque lateraliter acutato-angulatis (*Vermiculariæ* more), hyalinis, acrogenis. 1100

Hab. in foliis dejectis putrescentibus Eucalypti Globuli, Parque de Palermo Argentinæ. — Species primo intuitu *Sclerotii* innati speciem quamdam in mentem revocat.

PLENODOMUS Preuss F. Hoyersw. n. 150 et in Sturm Pilz. III. t. 72

(Etym. *plenus* et *domus*, quia perithecia farcta). — Perithecia immersa cornea, intus carnosula, primum clausa (dein irregulariter

rupta vel secedentia), rotundata multiformia. Basidia flocciformia brevissima. Sporulæ continuæ, oblongæ, hyalinæ.

1. **Plenodomus Rabenhorstii** Preuss l. c. — Peritheciis gregariis erumpentibus, oblongis, ellipticis, irregulariter plicatis, tuberculatis polymorphisque, opacis nigris, contextu cellulosis, primum clausis dein ostiolatis, intus carnosocellulosis, albis; caverna sporarum semicirculiformi; basidiis minutissimis; sporulis minutis oblongis, pellucidis, albis, utrinque rotundatis.

Hab. in truncorum epidermide Brassicæ crispæ dejectorum, Hoyerswerda. — Habitus *Sclerotii*.

MYCOGALA Rost. in Cooke Myxom. p. 84 (nomen). (Etym. *myces* fungus et *gala* lac.). — Perithecia subsuperficialia subcarbonacea, fragilia, astoma, mox inordinate dehiscentia, nucleo pallescente. Sporulæ globulosæ, continuæ, hyalino-flavæ, basidiis nullis vel obsoletis. — Genus habitu *Anixiæ*, ad interim hic locatum, sed maxime desciscens. Contextus perithecii distincte parenchymaticus; ergo a Myxomycetibus, quibus fungillus referri solebat, abhorrens.

1. **Mycogala parietinum** (Schrad.) Sacc. *M. bicolor* (Pers.) Rost. l. c. *Lycogala parietinum* Fr. S. M. III. p. 83, *Didymium parietinum* Schrad. — Peritheciis hemisphæricis, superficialibus, cœrulescentinigris subpunctatis, mox inordinate dehiscentibus, contextu parenchymatico fuligineo, nucleo pallide flavo, demum pulveraceo; sporulis globulosis, 10–12 μ . diam., pallide flavis, coacervatis sulfuris, extus rugulosis.

Hab. in lignis, tela, parietibus in Gallia, Germania, Lapponia, Italia.

SPHÆRONÆMA Fr. S. M. II. pag. 535. (Etym. a *sphæra* et *nama* fluxio, ob sporulas sæpe fluendo in globulum terminalem conglutinatas). — Perithecia membranacea, coriacea vel carbonacea, innata vel superficialia, globulosa in ostiolum plus vel minus subulatum producta. Sporulæ ovoideæ vel oblongæ, continuæ, subhyalinæ sæpe, madore, ad ostioli verticem expulsæ globulumque formantes. — Formatio globuli sporularum nil peculiaris est, nam in multis aliis occurrit; hinc mihi nota generis est rostrum nec globulus. Species erostres etsi globuligeras auctorum ad *Aposphæriam* vel *Phomam* duco.

I. *Eu-Sphæronæma*. Sporulæ subhyalinæ.

A) In Dicotyledoneis lignosis.

1. **Sphæronæma polymorphum** Auersw. Bot. Zeit. 1851, p. 181. — Pe- 1103

peritheciis variis cylindricis vel e basi hemisphærica vel subglobosa cylindricis, vel subconicis vel obconicis, globulo livido-nigrescente coronatis; sporulis oblongo-cylindræis, minutissimis, rectis, hyalinis, $6 \approx 1,5$; basidiis bacillaribus subinde furcatis, $18-20 \approx 1,5$.

Hab. in truncis Pruni, Padi, in Germania, Gallia et Italia. — Forma obconica sistit forte *Sph. pistillare* Wallr. Secundum Fuck. est spermogonium *Cenangii vernicosi*. — ***Sph. affine** Sacc.: peritheciis conoideo-elongatis, apice obtusiusculis, coriaceis, gregariis; sporulis allantoideis minutis, $6 \approx \frac{3}{4}-1$, hyalinis; basidiis bacillaribus triplo longioribus. In ramis corticatis Populi tremulæ vel Betulæ, Cadore Italiæ bor.

2. **Sphæronæma minutissimum** Peck 25 Rep. p. 85. — Peritheciis sparsis, minutis, sphæriæformibus vel subconicis, obtusis, a matrice facile secedentibus, nigris; globulo albido; sporulis oblongis, continuis, hyalinis, 7 μ . longis. 1104

Hab. in ramis Pruni serotinæ, Helderberg Amer. bor. — Perithecia prominula matricem asperulam reddunt.

3. **Sphæronæma brunneo-viride** Auersw. in Herb. — Peritheciis gregariis e basi cortice insculpta superficialibus, elongato-conicis, atrovirentibus, coriaceis, apice obtusiusculis; sporulis subfusoides, leniter curvis, $18 \approx 3$, hyalinis; basidiis filiformibus, subinde furcatis, hyalinis, $25-30 \approx 1,5$. 1105

Hab. in ramis corticatis Pruni Padi in Germania. — Sec. Fuck. Symb. Myc. p. 269 sistit spermogonium *Cenangii Cerasi* β . Padi A. S.

4. **Sphæronæma spurium** (Fr.) Sacc. *Ceratostomum spurium* Fr. Obs. II. p. 338, teste Fuck. — Peritheciis spuriis erumpentibus, 3 mill. altis, conico-cylindræis, fragilissimis, pulverulentis, atro-fuscis; globulo griseo, minuto, terminali; sporulis lineari-fusoides, curvulis, hyalinis. 1106

Hab. in ramis corticatis Pruni spinosæ prope Æstrich Germaniæ. — Pycnidium *Cenangii Prunastri* Fr., teste Tul.

5. **Sphæronæma Sorbi** Sacc. *Dothioræ Sorbi* pycnidium Fuck. Symb. p. 275. — Peritheciis spuriis sparsis subcæspitosisve, sub epidermide flavicante nidulantibus, globosis, atris, media magnitudine in rostrum conicum, obtusum, prominulum, aterrimum, perithecium æquans attenuatis; sporulis anguste fusiformibus, curvatis, continuis, $14-18 \approx 2-3$, guttulatis, hyalinis. 1107

Hab. in ramis corticatis Sorbi Ariæ in Rhenogovia.

6. **Sphæronæma pallidum** Peck 25 Rep. p. 85. — Peritheciis sparsis, 1108

erumpentibus, subconicis, obtusis, epidermide rupta cinctis, nigris, globulo pallido vel albido persistente coronatis; sporulis fusoideis, leniter curvis, utrinque acutis, plerumque 2-3-nucleatis, 15-16 μ . longis.

Hab. in ramis Piri Americanæ, Sandlake Amer. bor.

7. **Sphæronæma conforme** Peck Rep. St. Mus. N. Y. — Peritheciis 1109
sparsis, erumpentibus, in ostiolum rigidum spiniforme nigrum desinentibus; globulo albido; sporulis subfusoideis, sæpe curvulis sæpeque 1-2-nucleatis, 15-20 μ . longis.

Hab. in ramis emortuis Piri, Center Amer. bor. — Habitus *Sph. Spinæ* et *Sph. Magnoliæ*, at sporulæ diversæ.

8. **Sphæronæma Cerasi** Lasch Bot. Zeit. 1851, p. 181. — Peritheciis 1110
breve cylindricis, nigris; globulo fusco-olivaceo; sporulis oblongis.

Hab. in ramis Pruni Cerasi in Germania. — A *Sph. piriformi* valde diversum dicitur.

9. **Sphæronæma Eucalypti** Cooke et Harkn. in Grevill. 1881, p. 127. 1111
— Peritheciis sparsis, erumpentibus, conicis, atris; sporulis minoribus, subcylindricis, leniter curvulis, hyalinis, utrinque obtusis, 8 = 2.

Hab. in cortice Eucalypti in California.

10. **Sphæronæma nitidum** B. et C. North Amer. Fungi n. 406. — 1112
Peritheciis erumpentibus, subinde zonula atra cinctis, conicis truncatis; sporulis oblongis vel clavatis, hic illic uno apice attenuatis, binucleatis, 10 μ . longis.

Hab. in ramis Aceris Negundinis in Carolina Amer. bor.

11. **Sphæronæma cæspitosum** Fuck. Symb. p. mmm. — Peritheciis 1113
cæspitosis, cylindræis, vel apicem versus angustatis elongatisve, 1-2 lineas altis, fuscis; globulo terminali atro-fusco; sporulis numerosissimis, globosis ovatisve, pallide flavis, circa 3 μ . diam.

Hab. in ramis putrescentibus Aceris platanoidis, sæpius in *Eutypa* parasiticum, Reichartshausen Rhenogoviæ.

12. **Sphæronæma acerinum** Peck 24 Rep. St. Mus. New York., *Sph.* 1114
nigripes Ell. in Torr. Bot. Cl. 1876, p. 107. — Peritheciis cortice innatis, peridermium perforantibus, inferne conico-hemisphæricis, sursum in rostellum longum, angustum, flexuosum v. curvum attenuatis, nigris v. brunneo-atris; globulo minuto hyalino; sporulis ellipsoideis, sæpe 1-2-guttatis, hyalinis, 15-20 = 4,5.

Hab. in trunco ramisque Aceris rubri, South Jersey, Greenbush, Sandlake, Indian Lake Amer. bor.

13. **Sphæronæma columnare** Wallr. Fl. crypt. n. 3684. — Peritheciis 1115

fasciculatis, subconfluentibus, nigris, incusis, strictis, speciosis, e basi æquali cylindrica in verticem obtusum umbonatum veluti operculatum nitidum, poro tenuissimo pertusum productis.

Hab. ad truncos fraxineos cæsos in Thuringia.

14. **Sphæronæma Oleæ** (De Not.) Sacc. *Spilobolus Oleæ* De Not. Micr. 1116

ital. Dec. VII, f. 10. — Peritheciis depresso-globulosis, erumpentibus in collum crassum subæquilongum, apice rotundatum, abrupte productis, atronitidis; contextu subcorneo parenchymatico; sporulis cylindræis, curvulis, 6-8 \approx 2, subhyalinis; basidiis filiformibus, simplicibus furcatisve, hyalinis, sporulâ sub-triplo longioribus.

Hab. in ramis corticatis Oleæ europææ. — Forma **xylogena** Sacc. F. Ven. Ser. IV. sub n. 57: sporulis 4-6 \approx 2, dilute olivaceo-fuscellis; basidiis subsimplicibus, sporulâ duplo longioribus. In ligno Oleæ europææ in Euganeis. Hæc forma videtur spermogonium *Cyphelii ochreati* Mass.

15. **Sphæronæma Spina** B. et Rav. North Amer. Fungi n. 403, *Sphæron.* 1117

acuminatum B. et R., *Sphæron. spiniforme* B. et C. — Peritheciis erumpentibus, spiniformibus, nigris, corticatis; sporulis minimis globosis.

Hab. in foliis emortuis Fraxini in Carolina infer., Alabama Amer. bor. — *Sphæria Spina* Schw., quam huc ducit cel. Berk., videtur diversa. Cfr. Syll. I. p. 220.

16. **Sphæronæma Ampelopsidis** B. et C. North Amer. Fungi n. 403. 1118

— Gregarium, nigrum, dein deciduum; ostiolo tenui erumpente; sporulis oblongis, hyalinis, minutis, basidio subæquilongo suffultis.

Hab. in ramis Ampelopsidis quinquefoliæ in montibus Virginiae Amer. bor.

17. **Sphæronæma viticolum** B. et C. North Amer. Fungi n. 407. — 1119

Peritheciis gregariis, quandoque congestis, erumpentibus, conicis, late truncatis, pulverulentis; parietibus crassis.

Hab. in sarmentis Vitis in Carolina inferiore Amer. bor. — Affine *Sphæronæmati glomerato*.

18. **Sphæronæma metulæforme** Berk. North Amer. Fungi n. 400. — 1120

Peritheciis fuscis metulæformibus, basi subcontractis, collo brevioris, apice penicillato albo, setulis articulatis; sporulis

Hab. in ramis Corni floridæ, socia *Perichæna populina*, in Carol. inf. Am. bor. — Ostiolum duas tertias perithecii partes æquans.

19. **Sphæronæma pruinosum** B. et C. North Amer. Fungi n. 402. — 1121

Erumpens, cylindricum, apice globosum e conidiis minutis basi acutis pruinosum; sporulis oblongis, hyalinis, 17-25 μ . longis.

Hab. in ramis corticatis Rhois venenatæ, in Pensylvania Amer. bor. — *Sphæron. pruinosum* Peck in Rep. St. Mus., in ramis Amelanchieris canadensis, Garrison Amer. bor., non videtur diversum, saltem ex descriptione.

20. **Sphæronæma Rhois** B. et C. North Amer. Fungi n. 404. — Peritheciis sparsis vel congestis minoribus, subcylindricis, erumpentibus; sporulis.....

Hab. in ramis Rhois copallinæ in Carolina inf. Am. bor.

21. **Sphæronæma Catalpæ** Schw. Syn. Amer. bor. n. 2142. — Peritheciis subcylindricis, gracilibus, basi bulboso-incrassata, nigris; globulo spermatico deciduo albo, relinvente foveolam excavatam albam in ore perithecii.

Hab. in aversa pagina decedentis corticis Catalpæ ex libro pullulans, Bethlehem Amer. bor.

22. **Sphæronæma clavatum** Lév. Ann. Sc. Nat. 1846, p. 280. — Peritheciis cæspitosis, globosis, atris, ostiolis elongatis, levibus, clavatis, apice obtuso pertusis; sporulis elliptico-linearibus, continuis, pellucidis.

Hab. ad ramos, folia et etiam gallas Drymidis chilensis in Chili (GAY). — Perithecia usque 2-3 mill. alta.

23. **Sphæronæma clethrincolum** Ellis Torr. Cl. 1876, p. 107. — Peritheciis erumpentibus, sparsis, obtuse conicis vel demum cylindricis, basi incrassatis; globulo albo, dein rufescente; sporulis oblongis, hyalinis, minutis, 4-5 μ . longis.

Hab. in ramis emortuis Clethræ alnifoliæ, South Jersey Amer. bor. — Non confundendum cum *Sph. Magnoliæ* et *Sph. minutissimo*.

24. **Sphæronæma cæspitosum** Peck 25 Rep. p. 85. — Peritheciis cæspitosis, cylindræis vel sursum leniter tenuatis, nigris; globulo nigro, nitido; sporulis subfusoidis, 11-12 μ . longis.

Hab. in ramis emortuis Ilicis verticillatæ, Sandlake et Center Amer. bor.

25. **Sphæronæma Fuckelianum** Sacc. *Dothioræ sphærioidis* pycnidium Fuck. Symb. p. 274. — Peritheciis spuriis superficialibus, gregariis, minutissimis, 240 \approx 128, in rostrum cylindræo-conicum, 160 \approx 60, attenuatis, quandoque rostro abrupto, aterrimis; sporulis in rostri apicem demum expulsis, cylindræis curvatis, utrinque obtusis, continuis, 6 \approx 1,5.

Hab. in cortice duriore ramorum Populi tremulæ emortuorum prope Æstrich Rhenogoviæ.

26. **Sphæronæma subpilosum** Sacc. *Ceratostomatis subpilosi* Spermogonium Fuck. Symb. pag. 128. — Peritheciis sparsis gregariisque subsuperficialibus, media magnitudine, carbonaceis, aterrimis, globosis, rostro gracili, plerumque abrupte cylindræo perithecium æquante, ostiolo perforato, plerumque subtiliter bilabiato obtusove; sporulis ovoideis, biguttulatis, hyalinis, episporio crasso, $8 \approx 4$.
Hab. in ligno putri Salicis albæ in Rhenogovia.
27. **Sphæronæma procumbens** Sacc., *Ceratostomatis procumbentis* Spermog. Fuck. Symb. p. 128, t. IV. f. 45. — Peritheciis gregariis, superficialibus, longissime rostratis, obverse piriformibus, plerumque procumbentibus rostro adscendente, vel verticalibus rostro recto, levibus, atro-fuscis; sporulis cylindræis, curvulis, minutissimis, in globulum apicalem expulsis.
Hab. in ligno duriore Quercus, rarius in Rhenogovia.
28. **Sphæronæma cylindricum** (Tode) Fr. S. M. II. p. 538, *Sphæria cylindrica* Tode Meckl. II. p. 4, f. 114. — Peritheciis cylindræis, simplicibus, gracilibus, levibus, nigris, globulo prominulo albo; sporulis perexiguis, $3 \approx 2$, hyalinis.
Hab. ad ligna molliora Salicis, Quercus, in Suecia, Germania. — E ligno carie consumpto emergens, nudo oculo vix conspicuum, armato cylindræum, diametro longitudinem duplo superante, opacum, apice rotundato obtusissimo. — β . **affine** Fr. l. c.: peritheciis primo cylindræis, dein ventricosis conicisque. Nudo oculo punctiforme, opacum. Cum typo.
29. **Sphæronæma cladoniscum** (Ach.) Fr. S. M. II. p. 537, *Calicium cladoniscum* Ach. Lich. p. 241. — Peritheciis cylindræis, subramosis, nigris, globulo minimo incluso albo.
Hab. ad ligna putria salicina etc. in Suecia et Germania. — *Sph. cylindræo* nimis affine, nam reperiuntur etiam individua simplicia; tamen dignoscendum apice truncato subaperto, globulo (forsan deciduo) disci instar incluso. Vix ultra $\frac{1}{2}$ lin. altum.
30. **Sphæronæma Populi** B. et C. North Amer. F. n. 406. — Peritheciis conicis vel subcylindræis, sparsis vel quandoque congestis; sporulis breviter fusiformibus, hyalinis, 10 μ . longis.
Hab. in cortice Populi moniliferæ in America bor.
31. **Sphæronæma?? Acicula** Sacc., Rouss. et Bomm. Miscell. Mycol. p. 20. — Peritheciis spuriiis in ligno superficie pruinoso-dealbato, laxè gregariis, superficialibus, minutis, acicularibus, apice truncatis, nigris, 150 \approx 50, contextu prosenchymatico, subcarbonaceo, fuligineo; basidiis prælongis, filiformibus, fasciculatis, apice in vesiculam

guttulatam, 18-20 = 8-10, desinentibus; sporulis oblongis, suballantoidibus, deorsum acutioribus, 12-15 = 4-5, guttulatis, hyalinis.

Hab. in ligno putrescente Carpini Betuli prope Bruxelles Belgii. — Forma paradoxa (lichenosa?) a genere *Sphæronæmate* valde recedens.

32. **Sphæronæma decorticans** Lév. Ann. Sc. Nat. 1846, p. 280. — 1134

Stromatibus innatis, effusis, nigris, maculæformibus; peritheciis crassis, cylindricis, $\frac{1}{2}$ mill. altis, rugosis, ostiolis obtusis, albicantibus pertusis; sporulis elliptico-linearibus, continuis, pellucidis, obtusis, perexiguis.

Hab. ad corticem Juglandis regiæ, Bagnolet. pr. Parisios. 1135

33. **Sphæronæma fasciculatum** Mont. et Fries Not. in Ann. Sc. Nat.

1834, 2, I., p. 346. — Peritheciis lageniformibus, basi connatis, apice divergentibus, nigris, globulo fugaci, livido.

Hab. in truncis Betulæ albæ in Arduennis. — Cfr. *Sph. glomeratum*.

34. **Sphæronæma glomeratum** Mont. (ubi?), Berk. et Br. North Amer. 1136

Fungi pag. 63. — Affine *Sph. viticolo*; sporulis minutis breviter oblongis; basidiis sursum breviter ramulosis.

Hab. in ramis quercinis in Carolina inf. Americæ bor. — «Species Montagnei adducta verisimiliter est *Sph. fasciculatum*, nam *Sph. glomeratum* in libris Montagnei invenire nequivi».

35. **Sphæronæma piriforme** Pers. Syn. p. 64. — Peritheciis late co- 1137

nicis, acutis, levibus; globulo ovali, deciduo, aterrino.

Hab. in ligno exsiccato Quercus in Germania et Suecia. — Sparsum vel gregarium, pusillum, opacum, aterrimum, glaberrium, basi dilatata adnatum, globulo semper opaco.

36. **Sphæronæma subcorticale** C. et E. in Grevillea. — Gregarium, 1138

hinc inde seriatum; peritheciis cylindræis, atro-brunneis, apice obtusis; sporulis globosis, hyalinis, 8-9 μ . diam.

Hab. in cortice interiore Quercus, New Jersey Americæ borealis.

37. **Sphæronæma semipellitum** Wallr. Crypt. n. 3682. — Peritheciis 1139

pachydermaticis, e basi ovata subcutanea, tegmine fibroso, fusco obducta, crassiore in verticem nudum, convexum, nigrum, nitidum, poro tenui pertusum abeuntibus eoque mamillari epidermidem permeantibus globulumque sporularum cinereum, caducum stillantibus.

Hab. ad caudices quercinos effossos languidos, rarius in Thuringia.

38. **Sphæronæma Spinellia** Kalchbr. Bot. Zeit. 1862, p. 199. — Pe- 1140

peritheciis gregariis ex ovata basi subulatis, subincurvis, atris; globulo croceo; sporulis oblongo-cylindræis (e polo globosis), hyalinis.

Hab. in ramis Salicis in Hungaria, Italia et Germania. — Teste Fuck. sistit spermogonium *Cenangii saligni*. — «Sporulæ in exemplaribus venetis cylindrææ, curvulæ, $3 \approx 1$, basidiis simplicibus vel 2-3-furcatis suffultæ».

39. **Sphæronæma Coryli** Peck Rep. on St. Mus. N. York. — Peritheciis cortice innatis, copiosis, minutis, leniter elevatis, truncatis, nigris, a matrice facile decedentibus; sporulis oblongis vel ellipsoideis, 13-14 μ . longis. 1141

Hab. in ramis Coryli americanæ, West Albany Amer. bor. — Contextus facile comprimendus et sub vitro composito dilucide inspiciendus.

40. **Sphæronæma coronatum** Bon. Abh. Gebiete der Mykol. p. 143. 1142
— Peritheciis lageniformibus, nigrellis, profunde immersis, intus albidis, rostro longo cylindrico, apice prominente, dilatato et pilis curtis coronato; sporulis cylindricis, sublongis, obtusis.

Hab. in ligno pineo denudato in Germania.

41. **Sphæronæma Acrospermum** (Tode) Fr. S. M. II. p. 537, *Sphæria* 1143
Acrospermum Tode Meckl. f. 119. — Peritheciis cylindrico-ventricosis, levibus, nigris, globulo obsoleto, sordide flavicante.

Hab. in ligno Abietis et quercino in Germania. — Sparsum, $\frac{1}{2}$ -1 lin., vix fuscescens, et macula illa atramentosa lignum circa singulum tingens colorem prodit aperte fuscum. Forma inter cylindricam et obovatam per varios vacillat gradus, plerumque e tereti sursum subventricosa. Apex astomus parabolicus nitet, ut plurimum imperforatus, in nonnullis distincte pertusus, in paucis etiam globulo parvo, sordide flavicante, luculenter coronatus.

42. **Sphæronæma piliferum** Sacc. Mich. II. p. 342, *Sphæria pilifera* 1144
Curr. Simpl. Sphær. n. 289. — Peritheciis gregariis, superficialibus, globulosis, exiguis, in ostiolum filiforme duplo longius productis; sporulis ovoideis, $3 \approx \frac{1}{4}$, hyalinis, copiosissimis, mox ad apicem ostioli conglobatis.

Hab. in cortice interiore Pini in Gallia (TERRY). — Est spermogonium *Ceratostomatis piliferi*, cujus vero asci nondum innotuerunt.

43. **Sphæronæma pithyum** Sacc. *Cenangii pithyii* pycnidium Fuck. 1145
Symb. p. 269. — Peritheciis 4-6 coacervatis sparsive, stipitatis, globoso-conicis, demum subtilissime perforatis, nigris, atris; spo-

rulis minutissimis cylindræis, curvatis, in sterigmatum ramosorum ramulis brevissimis, continuis insidentibus.

Hab. in ramis siccis Pini silvestris prope Æstrich Rhénogoviæ.

44. **Sphæronæma verrucosum** Corda Ic. IV. p. 39, f. 111. — Peri- 1146
theciis minutis, gregariis, utriculiformibus, erectis, plus minus prope
medium irregulariter contractis, atris, subcorneis, verrucis majus-
culis exasperatis; globulo minuto albo; sporulis minutissimis ob-
longis, hyalinis.

Hab. in asseribus pineis putrescentibus, Reichenberg Bohemiæ.

45. **Sphæronæma Fuckelii** Sacc. Cfr. Fuck. Symb. App. I. p. 300. — 1147
Peritheciis cylindricis, gracilibus, levibus, nigris, apice acutis; spo-
rulis cylindræis, 6 = 2, hyalinis.

Hab. in ligno putri Pini silvestris in Germania. — Ad
Ceratostomellam multirostratam Syll. I. p. 411, uti spermogonio-
nium, spectat.

46. **Sphæronæma colliculosum** Fr. S. M. II. p. 540. — Peritheciis 1148
complanatis, ellipticis, inæqualibus, scabrosis, atris; globulo fu-
gaci, candido.

Hab. in lignis denudatis pineis in Suecia. — Cfr. *Coniothyrium colliculosum*. — Sparsum, innatum, lignum peculiari modo
colliculosum reddens, raro globulo instructum, depressum, opacum,
scabroso-pulverulentum.

47. **Sphæronæma ovoideum** Dur. et Mont. F. Alg. p. 581. — Peri- 1149
theciis erectis vel inclinatis, $\frac{1}{4}$ mill. alt., ovoideis, seriatis, atris,
opacis, poro pertusis; sporulis subglobulosis, minutissimis; globulo
non viso.

Hab. ad ramos Ephedræ altissimæ, Oran Algeriæ (DURIEU).

48. **Sphæronæma truncatum** Fr. S. M. II. p. 539, *Sphæria cylindrica* 1150
A. S. Lus. p. 50. — Peritheciis cylindricis, crassis, truncatis, ni-
gris; globulo prominente candido.

Hab. ad ligna pinea et abiegna in Suecia, Germania et
America boreali. — A *Sph. cylindrico* abunde diversum, multoties
majus, firmiter, longitudine diametrum paulo superante, globulo
majore deciduo, apice truncato-umbilicatum. Primo ligno subinna-
tum, dein emergendo elevatum.

49. **Sphæronæma parabolicum** (Tode) Fr. S. M. II. p. 538, *Sphæria* 1151
parabolica Tode Meckl. 43, f. 115, Nees Syst. f. 345, A. — Pe-
ritheciis elongato-conicis, levibus, nigris; globulo prominulo livido.

- Hab.* in lignis putridis in Germania. — A Todeo dicitur «tenellum gelatinosum»: an ergo *Sphæroncemella*? — Aggregatum, non nisi oculo armato contemplabile, inferne fuscum, apice perforatum, globulo lurido-livido.
50. **Sphæronæma penicillatum** B. et C. North Amer. Fungi n. 399. 1152
— Peritheciis elongatis, ventricosis, e basi orbiculari oriundis, collo longo penicillato.
Hab. in ligno emortuo in Carolina inf. Amer. bor.
51. **Sphæronæma Rhamni** Sacc. *Dothioræ Rhamni* pycnidium Fuck. 1153
Symb. p. 276. — Peritheciis (in *Dothiora Rhamni* parasiticis) gregariis, minutissimis, globoso-conicis, aterrimis; sporulis minutissimis cylindræis, curvulis, continuis, hyalinis, 4 = 1-1,5.
Hab. in ramis siccis Rhamni Frangulæ prope Æstrich Rhenogoviæ.
52. **Sphæronæma conicum** (Tode) Fr. S. M. II. p. 538, *Sphæria conica* Tode Meckl. f. 116. 1154
— Peritheciis conicis, acutis, nigris; globulo sphærico, deciduo, flavo, atrescente; sporulis minutis, globosis ovatisve, hyalinis.
Hab. ad ligna et ramos Fagi, Abietis, Pruni, Rhamni in Suecia et Germania. — Sec. Fuck. spermogonium *Lasiosphæricæ ferrugineæ*. — Exiguum, subgregarium, passim irregulare, junius tomento subraro livido obsitum, quod etiam in speciminibus suecicis observatur. Guttula globosa, primo pellucida, antequam decidit, nitidissima, sæpius destitutum reperitur.
53. **Sphæronæma pistillare** Wallr. Fl. Crypt. n. 3680. 1155
— Peritheciis elongatis, strictis, rigidis, atro-piceis, nitidis, e basi tenui sensim in apicem incrassatis clavatis v. pistillaribus, vertice attenuato, poro exilissimo pertusis.
Hab. in rimis arborum e. g. Tiliæ, Pruni, rarius in Thuringia.
54. **Sphæronæma Robiniæ** B. et C. North Amer. Fungi n. 405. 1156
— Peritheciis liberatis subglobosis, ostiolo brevi truncato, primum pruinoso; sporulis hyalinis, oblongis, utrinque obtusis, 15 μ . long.
Hab. in ramis Robiniæ et Tiliæ in montibus Virginicæ et New York Amer. bor.
55. **Sphæronæma ventricosum** (Ach.) Fr. Obs. p. 188, t. II. f. 8, *Calicium ventricosum* Ach. 1157
— Peritheciis elongatis, simplicibus, compressis, medio ventricosis, nigris, globulo minuto, punctiformi, cinereo; sporulis fusoides, curvulis, guttulatis vel non, hyalinis.
Hab. ad cortices arborum e. g. Tiliæ, Pruni in Lusatia. —

- Gregarium, vix lineam longum, basi et apice angustatum, medio vel superne ventricoso-compressum, glabrum, opacum, apice apertum, tenuissime marginatum, globulo incluso discum minimum cinerescens offerente.
56. **Sphæronæma rostratum** Fuck. Symb. p. 399. — Peritheciis plerumque semiimmersis, gregariis, globosis, cum rostro cylindræo, perithecium subæquante, perforato, apice globulum candidum gerente; sporulis minutissimis, ovatis, hyalinis. 1158
- Hab.* in palis putridis in vineis prope Æstrich Rhenogoviæ.
57. **Sphæronæma cornutum** Preuss F. Hoyersw. n. 144. — Gregarium superficiale, atrum, epixylum; peritheciis subglobosis, atris, floccis sparsis tectis, collo longissimo, cylindrico, supra fibroso, nucleo subalbo, globulo subalbo; sporulis ovatis, nucleatis, guttulis repletis. 1159
- Hab.* in ramis arborum frondosarum decorticatis, dejectis, Hoyerswerda.
58. **Sphæronæma æmulans** B. et Br. Ann. N. H. n. 1378, tab. VII. fig. 2. — Peritheciis subgloboso-rostratis, $1\frac{1}{2}$ altis, e mycelio sparso surgentibus, collo apice ciliato; sporulis perexiguis, globulosis, 2,5-2,7 μ . diam., oscillantibus. 1160
- Hab.* in lignis, Epping Forest Britannia.
59. **Sphæronæma cernuum** (Pr.) Sacc. *Sphærocista cernua* Preuss F. Hoyersw. n. 36. — Gregarium, superficiale, atro-fuscum, epixylum; peritheciis globosis, asperis; collo cylindrico flexili; nucleo subalbo; guttula pallida; basidiis filiformibus; sporulis cylindricis, subcurvatis, continuis, albis. 1161
- Hab.* in ramis frondosis decorticatis, Hoyerswerda.
60. **Sphæronæma sphæricum** Preuss F. Hoyersw. n. 286. — Gregarium; peritheciis subglobosis, atris, ligno subinsidentibus; ostioliis minutis subacutis; globulo seu cirro minuto fusco; sporulis oblongis, utrinque obtusis, subalbis. 1162
- Hab.* in ligno nudo subputrido betulino, Hoyerswerda.
- B) In Dicotyledoneis herbaceis.
61. **Sphæronæma corneum** C. et Ell. in Grevillea. — Sparsum, corneum; peritheciis cylindræis, centro turgidis, apice rotundatis; sporulis linearibus, rectis, hyalinis, minutis, 8 μ . longis. 1163
- Hab.* in caule *Oenotheræ*, New Jersey Amer. bor.
62. **Sphæronæma heteromorphum** Dur. et Mont. Fl. Alg. p. 581. — Sphæriæforme; peritheciis innato-tectis, gregariis, depressis, intus albo-farctis, $\frac{1}{2}$ mill. crass., 150 μ . alt., ostiolo prominulo, acuto, 1164

200 μ . alto instructis; globulo opalino; sporulis lineari-oblongis, 10 \approx 2-3, hyalinis.

Hab. ad caulem herbæ cujusdam ad Bouzaréah prope Alger (DURIEU). — « An *Phoma?* ».

63. **Sphæronæma lageniforme** Speg. Fung. Arg. I. p. 34. — Peri- 1165

theciis laxè gregariis, lageniformibus, in ligno decorticato basi insculptis, atris, in collum elliptico capitatum pellucidum, e muco sporigero exsiliante subviscosum elongatis, contextu prosenchymatico, fuligineo; sporulis minutissimis, 2 \approx 1, ellipticis vel ovoideis, hyalinis, in sterigmatibus filiformibus, 7-8 \approx $\frac{1}{2}$, hyalinis, acrogenis.

Hab. in ramulis emortuis dejectis Solani bonariensis in Argentina Amer. merid.

64. **Sphæronæma Geranii** Ces. Bot. Zeit. 1848, p. 294. — Peritheciis 1166

epiphyllis, superficialibus, ovoideis, superne hispidis gregariis (tunc circinantibus, tunc ad nervos diffusis); sporulis subtruncatis, obtusis.

Hab. in foliis adhuc vivis Geranii rotundifolii, Brixie Ital. bor. — « An *Venturia?* ».

65. **Sphæronæma deformans** Berk. Gard. Chron. 1851, n. 36. — Pe- 1167

ritheciis elongatis, pluribus, in pustula pallida innatis; ostiolis emergentibus, exasperantibus; sporulis perexiguis, ellipsoideis, brevissime stipitatis, hyalinis.

Hab. in pag. inf. foliorum vivorum Eranthem pulchelli in hortis londinensibus.

66. **Sphæronæma comatum** Ces. Bot. Zeit. 1851, p. 646. — Solita- 1168

rium, superficiale, hypophyllum; peritheciis ovatis, basi applanatis, areolatis, membranaceis, nigrescentibus (primitus virentibus, semipellucidis), vertice pilis subulatis arrectis obsito; sporulis ovalibus.

Hab. in foliis Vercelli Italiae borealis.

67. **Sphæronæma hispidulum** Corda Ic. IV. p. 39, f. 112. — Peri- 1169

theciis gregariis, superficialibus, atris, utriculiformibus, dein irregularibus, rugulosis, infra nudis, collo elongato vel ventricoso, aculeis sparsis, rigidis obsito, globulo albo; sporulis fusoides, acutis minutis, albo-hyalinis.

Hab. in caulibus et culmis herbarum putrescentibus, Prag Bohemiae.

68. **Sphæronæma subtile** (Fr.?) Bonord. Abh. Gebiete der Mykol. p. 143. 1170

— Peritheciis membranaceis, parvis, nigris, sublevibus, hemisphaericis, subimmersis, subtus deplanatis et radicosis, primum globosis, brunneis, dein papillatis, demum rostratis et nigris, apice obtuso, poro pertuso.

Hab. in caulibus *Urticæ* in Germania.

69. **Sphæronæma Preussii** Sacc. *Sphærocista rostrata* Preuss Fung. 1171

Hoyersw. n. 39. — Peritheciis sparsis, nigris, e basi subglobosis, primo immersis, in collum cylindricum rectum exsertis; pulpa sporarum pallida; basidiis filiformibus; sporulis ovatis, continuis, albis.

Hab. ad caules herbarum elatiorum, Hoyerswerda.

C) In Monocotyledoneis, Acotyledoneis, inque tela etc.

70. **Sphæronæma Caminus** B. et C. Cub. Fungi n. 554. — Peritheciis 1172

carbonaceis, elongato-conicis, 2 mill. altis, basi confluentibus.

Hab. in caule putri Monocotyledoneæ cujusdam in Cuba.

— Sporulæ ignotæ, sed totus habitus *Sph. Spinæ*.

71. **Sphæronæma epiglæum** B. et C. North Amer. F. n. 401. — Pe- 1173

ritheciis globosis, innatis, in collum cylindricum sensim attenuatis.

Hab. in Tremella quadam in America boreali.

72. **Sphæronæma helicomyxa** Fres. Beitr. 29 t. IV. f. 24-29. — Pe- 1174

ritheciis e basi globosa in rostrum duplo longius, cylindræum, apice subpenicillatum attenuatis, $\frac{1}{2}$ mill. alt., nitide nigris; globulo compresso albo-hyalino; sporulis muco diu nidulantibus, perexiguis, ovato-oblongis, curvulis, 2,5-3 μ . longis, hyalinis.

Hab. in fungis variis putredine decompositis atrisque vinoque mixtis et in capsula clausa diu servatis, in Germania.

73. **Sphæronæma microscopicum** Wallr. Fl. Crypt. n. 3671. — Pe- 1175

ritheciis conoideis, minutissimis, nigris, gregariis, e vertice truncato globulum sporophorum albidum transmittentibus.

Hab. ad velum Dædaleæ quercinæ putridæ in Thuringia.

74. **Sphæronæma epimyces** (Fr.) Berk. Outl. p. 315 *Sphæria epimy-* 1176

ces Fr. S. M. II. p. 499, Syll. II. p. 425. — Peritheciis gregariis, maculis purpurascensibus innatis, globosis, papillatis, nigris, nucleo albo; sporulis.....

Hab. in Corticio comedente emortuo in Suecia et Britannia. — «An *Hypomyces* sterilis?».

75. **Sphæronæma lichenophilum** Dur. et Mont. Fl. Alg. pag. 579. — 1177

Parasiticum, gregarium; peritheciis semiimmersis ovoideo-acuminatis, simplicibus, nigris, ostiolo acuto recto aut curviusculo instructis, nucleo albo; sporulis minutissimis oblongis, 5 \simeq 2,5, hyalinis, oscillantibus.

Hab. in crusta Lecideæ canescentis ad truncos Chamæropis in summo monte Bouzaréah prope pagum in Algeria (DURIEU).

76. **Sphæronæma Pteridis** (A. S.) Fr. S. M. II. p. 540, *Sphæria Pte-* 1178
ridis A. S. Lus. p. 49, t. 10, f. 5. — Peritheciis subtuberculosis
e badiofuscis, primum globoso-depressis, dein obconicis collabascen-
do obcordatis.

Hab. ad frondes Pteridis humi prostratis a nive vix dum
soluta obtectis, in Germania. — Accedit ad Sclerotia, sed primo
inventionis momento exempla nonnulla globulo spermaticeo albido
fugacissimo coronata, 1½ lin. alta, 1 lin. lata. «Ex icone potius
discomyces mihi videtur».

77. **Sphæronæma lintearium** (Mont.) Sacc. *Sphæria* (Aposphæria) *lin-* 1179
tearia Mont. Fl. Chil., VII. p. 466, t. 10, f. 6 et Syll. n. 818. —
Ceratostomum, sparsum, semiliberum; peritheciis subglobosis, atris
opacis, tandem collapsis, ostiolo crasso, stricto, truncato; sporulis
lineari-oblongis minimis.

Hab. in tela semicorrupta in Chile (GAY).

II. *Næmosphæra* Sacc.

Sporulæ coloratæ.

78. **Sphæronæma Magnoliæ** Peck 26 Rep. p. 76. — Peritheciis spar- 1180
sis, erumpentibus, nigris, ostiolo spiniformi, 2-3 mill. alto; sporu-
lis late ellipsoideis v. subglobosis, subinde 1-nucleatis, 10 µ. long.
maturis coloratis.

Hab. in ramis Magnoliæ acuminatæ, Portville Amer. bor.
Habitus *Sph. Spinæ*, sed sporulæ alienæ.

79. **Sphæronæma ossis** Pr. Hoyersw. n. 287. — Peritheciis globoso- 1181
conicis, subcorneis, atris, nucleo fusco-gelatinoso; sporulis ovatis
fuscis, in medio unam guttulam oleosam minorem continentibus.

Hab. in ossibus subputrescentibus, Hoyerswerda.

III. *Species nomine tantum notæ.*

80. **Sphæronæma circinans** Peyl Lotos 1858, p. 31. — In Bohemia 1182
orientali.

81. **Sphæronæma amenticulum** Ces. Bot. Zeit. 1857, p. 173. — A *Ce-* 1183
rat. pilifero affnibusque peritheciis immersis differt; sed sporulæ
(ob immaturitatem) nullæ. — In amentis, in cupulis pedunculis-
que Quercus pedunculatæ in Italia et Germania.

82. **Sphæronæma concors** Rav. Carol. II. n. 64. 1184

83. **Sphæronæma epicecidium** Berk. in Hook. Kew Gard. Misc. I. 291, 1185
t. X. fig. B., Hook. Journ. (1851) p. 18.

Hab. in gallis Caripi (SPRUCE) et Para (HOME) in Brasilia.

CHÆTOPHOMA Cooke in Grevillea III. p. 25 (Etym. *chæte*, seta et *Phoma*). — Perithecia membranacea, minutissima, superficialia, intra hyphas intricatas plerumque nidulantia; sporulæ minimæ, continuæ, hyalinæ, sæpe ovaes vel ellipsoideæ. — Genus sistit verisimiliter spermogonia *Asterinæ* v. *Meliolæ*.

1. **Chætophoma ilicifolia** Cooke in Grev. t. 118, f. 3. — Hypophylla, 1186
fuliginea, maculæformis; hyphis byssinis ramulosis, intricatis, brunneis, ramulis adscendentibus, cladosporioideis; peritheciis brunneis, globosis, 70 μ . diam., sparsis; sporulis ellipticis vel ovalibus, hyalinis, 4 = 2,5.

Hab. in foliis Ilicis opacæ in Carolina aust. Americæ borealis (RAVENEL).

2. **Chætophoma quercifolia** Cooke in Grevillea tab. 118, f. 1. — Hy- 1187
pophylla, effusa, fuliginea; hyphis byssoideis repentibus, 30-40 μ . diam., flexuosis, furcatis, intricatis, brunneis; peritheciis globosis, fuscis, gregariis vel sparsis; sporulis minimis, ovatis, hyalinis, 3 = 2.

Hab. in foliis Quercus nigræ in Carolina austr. Americæ borealis (RAVENEL). — Affine *C. ilicifoliæ* sed perithecia minora et gregaria.

3. **Chætophoma Catesbeyi** Cooke in Grev. t. 118, f. 2. *Phoma Ca-* 1188
tesbeyi Thüm. Flora, 1878, p. 179. — Hypophylla, fusca; hyphis byssoideis, ramosis, intricatis, brunneis, repentibus; peritheciis gregariis, foliorum paginam inferiorem omnino occupantibus, subglobosis, fuscis, 25-30 μ . diam.; sporulis sub-ovato globosis, hyalinis, 2,5 μ . diam.

Hab. in foliis Quercus Catesbeyi in Carolina infer. Amer. borealis (RAVENEL). — Sec. Thüm. l. c. adsunt basidia brevissima, filiformia, hyalina.

4. **Chætophoma atrella** Cooke et Harkn. in Grev. 1880, p. 6. — Atra, 1189
effusa, velutina; hyphis erectis, simplicibus, flexuosis, cum conidiis ellipsoideis, 1-2-septatis; peritheciis globosis, 80-180 μ . diam., brunneis, membranaceis; sporulis minutis, ovatis, 4 = 3.

Hab. in cortice Aceris macrophylli in California Amer. bor.

5. **Chætophoma Catalpæ** Cooke in Grevillea t. 118, f. 4. — Hypo- 1190
phylla, effusa, brunnea; hyphis byssoideis repentibus, flexuosis, ramulosis, paucis; peritheciis globosis, brunneis, 40-50 μ . diam.; sporulis subovatis, hyalinis, 2 = 1,5.

Hab. in foliis emortuis Catalpæ cordifoliæ in Carolina austr. Amer. bor. — Hyphæ parciore, cladosporioideæ, conidiis 1-septatis.

6. **Chætophoma fœda** Sacc. *Capnodii fœdi* spermog. Sacc. Syll. I. 1191 pag. 77. — Hyphis intricatis ramosis repentibus, septatis, fuliginis, hinc inde coalescendo dilatationes cellulares irregulares formantibus crustasque latas, atras, facile secedentes efficientibus; conidiis hinc inde inspersis ovoideo-fusoideis, 1-3-septatis, cladosporioideis; peritheciis ex hyphis oriundis globoso-depressis, 50 μ . diam., astomis vertice laciniatim dehiscentibus, contextu minute parenchymatico, fuligineo; sporulis sphæroideis, 3-4 μ . diam., hyalinis, 1-guttatis.

Hab. in foliis ramulisque vivis junioribus Nerii Oleandri in Italia, Lusitania, Austria, America boreali.

7. **Chætophoma Penzigi** Sacc. *Meliolæ Penzigi* pycnid. Penz. F. agrum. 1192 p. 18, fig. 1134. — Hyphasmate capnodiaceo atro; peritheciis globulosis, mycelio nidulantibus, atris, minute pertusis, basi hyphis intricatis cinctis, sursum inermibus v. setosis; sporulis ellipsoideis, biguttulatis, hyalinis, 5-6 \approx 2,5.

Hab. in foliis vivis Citrorum, morbo *Morfea* dicto affectorum, in Italia bor., Gallia etc., socia *Meliola*.

8. **Chætophoma Citri** Sacc. *Meliolæ Citri* pycnid. Penz. F. agrum. 1193 p. 17, f. 1132. — Hyphasmate capnodiaceo atro; peritheciis in eodem nidulantibus, globulosis, exiguis, hyphis intricatis cinctis, sursum inermibus v. setulosis, atris; sporulis oblongis, 3,5-5 \approx 2-2,5, hyalinis, demum cirrose expulsis.

Hab. in foliis vivis Citrorum, morbo *Cenere* affectorum, in Sicilia, socia *Meliola*.

9. **Chætophoma fusca** Karst. Hedw. 1884, p. 60. — Subiculo late effuso, fusco; peritheciis subiculo leviter immersis, sphæroideis, subastomis, nitentibus, 2 μ . lat.; sporulis botuliformibus, curvulis, hyalinis, 3-4 \approx 0,5-1.

Hab. supra lignum pineum induratum ad Aboam Fennicæ.

10. ? **Chætophoma Georginæ** (Corda) Sacc. *Sph. Georginæ* Corda Ic. 1195 III. p. 27, f. 72. — Cæspitibus aterrimis, irregulariter expansis; peritheciis confertis, obovatis v. mamillatis, pilis dein longis, ramosis, fuscis, septatis tectis, coriaceis, nigricantibus, ostiolo papillato, globulo albido; sporulis minutissimis ovoideis, hyalinis, 5-7 μ . longis.

Hab. in caulibus putridis Georginarum in hortis Pragæ Bohemicæ. — «An *Pyrenochæta*?».

11. **Chætophoma myriospora** Cooke Grev. XII. p. 24. — Sparsa, fusca; hyphis erectis simplicibus, septatis, conidiis macrosporoideis, 1196

clavatis, 40 = 13; peritheciis globoso-depressis, minimis, 50 μ . diam., membranaceis; sporulis ellipsoideis, minutis, hyalinis, 3 = 1.

Hab. in caulibus Delphinii in Carolina inf. Amer. bor.

12. **Chætophoma anthelmintica** Cooke Grev. t. 119, f. 5, — Epiphylla 1197
la, atro-fuliginea; hyphis byssoideis repentibus, brunneis, ramulosis, ramulis conidiiferis, erectis, cladosporoideis; peritheciis globoso-depressis, brunneis, 100 μ . diam.; sporulis arcte ellipticis, obtusis, hyalinis, 7 = 3.

Hab. in foliis languidis Chænopodii anthelmintici in Carolina austr. Amer. bor. (RAVENEL).

13. **Chætophoma Musæ** Cooke Grev. XII. p. 24. — Effusa atro-fusca, 1198
pannosa; hyphis intertextis, cladosporioideis (*Cladosporium pannosum* Cooke); peritheciis globoso-depressis, membranaceis, fuscis, 80 μ . diam.; sporulis ellipsoideis, hyalinis, 4 = 2.

Hab. in foliis Musæ in Carolina inf. Amer. bor.

14. **Chætophoma Sabal** Cooke Grev. XII. p. 24. — Sparsa, fusca, ve- 1199
lutina; hyphis conidiisque ut in *Macrosporio*; peritheciis subglobosis, membranaceis, fuscis, 100 μ . diam.; sporulis ellipsoideis, hyalinis, 4 = 1,5.

Hab. in Sabal in Carolina inf. Amer. bor. (RAVENEL).

15. **Chætophoma Cycadis** Cooke Grev. t. 119, f. 6. — Hypophylla, 1200
maculiformis, sparsa, brunnea; hyphis byssoideis ramosis, repentibus, ramulis conidiiferis assurgentibus, macrosporoideis; peritheciis lageniformibus, superne attenuatis, fuscis, 150 = 90; sporulis ellipticis, hyalinis, 5 = 3.

Hab. in foliis Cycadis in Carolina austr. Amer. bor., socio *Macrosporio communi* (RAVENEL). — Sporulæ ex apice perithecii cirrose exsistentes.

ASTEROMA DC. Mem. Mus. III. p. 329, 336, Fr. S. M. II. p. 602
(Etym. *aster* ob fibrillas radiantes). — Perithecia minima, globulosa, prominula, conferta, subconfluentia, ambitu maculiformi, fibrillis innatis subradiato. Sporulæ (in typicis) continuæ, hyalinæ, ovoideæ v. breve cylindræ. — Multæ adsunt species sporulis v. peritheciis adhuc ignotis, quæ in appendicem traduntur.

I. *Eu-Asteroma*.

Perithecia et sporulæ cognita.

1. **Asteroma Padi** Grev. Loud. Hort. p. 459. Fr. Elench. II. p. 151. 1201
Berk. in Ann. N. H. n. 201, t. 11, f. 4. *Actinonema Padi* Fr. Sum-

ma Veg. p. 424. — Epiphylla, macularis, fibrillis confluentibus radiantibus, rufescentibus, apice pallidis; peritheciis innatis fuscis; sporulis perexiguis, cylindræis, curvis, utrinque rotundatis, hyalinis.

Hab. in foliis Pruni Padi in Gallia, Britannia, Germania et Belgio. — Sec. Rud. in Linnæa IV. p. 117, macula violaceo-fusca; fibrillæ pulcherrime fruticuloso-ramosæ, flabelliformiter expansæ, longissimeque radiatæ, media linea alba spinulosa percursæ; perithecia minutissima conferta. «Habitus potius *Actinonematis* sed sporulæ, quantum video, continuæ».

2. **Asteroma cerasicolum** Sacc. *A. Cerasi* Cooke Grev. XII. p. 24 1202
nec Desm. — Hypophyllum; maculis orbicularibus, radiantibus, atris; peritheciis parvulis, applanatis, mycelio fusco insidentibus; sporulis ovalibus, continuis, hyalinis, 4 = 2.

Hab. in foliis Cerasi Caroliniensis in Carol. inf. Amer. bor.

3. **Asteroma Rubi** Fuck. Symb. p. 384 (*Actinonema*). — Peritheciis 1203
punctiformibus, gregariis, applanatis, subtilissime perforatis, atris; fibrillis repentibus, subadscendentibus, subtilissimis, ramosis, fusco-olivaceis; sporulis minutissimis, globosis, hyalinis.

Hab. in sarmentis vivis Rubi Idæi in Jura Helvetiæ (MORTIER).

4. **Asteroma geographicum** (DC.) Desm. Ann. Sc. not. 1841, p. 139. 1204
Sphæria geographica DC. Fl. Fr. VI. pag. 139. — Epiphyllum, atrum, macula nulla; peritheciis orbiculatis planis, lineolis nigris flexuosis insidentibus, picturam catenuliformem serpentinam mentientibus; sporulis oblongis, 20 μ . longis, guttulatis.

Hab. in foliis Cratægi Ariæ, C. torminalis, Pruni lusitanicæ, P. serotinæ virginianæ, Piri, Mali, Nyssæ in Gallia, Germania, Italia et America boreali. — Lineolæ mappam geographicam referunt, circumscribunt plerumque plura individua; perithecia perexigua, disciformia.

5. **Asteroma atramentarium** Berk. N. Am. F. n. 456. — Nigerrimum, 1205
compactum, expansum; floccis radiantibus reticulatis; peritheciis minutis; sporulis brevibus, subcymbiformibus, 12 μ . longis.

Hab. in foliis Amelanchieris et Piri arbutifoliæ in Carolina infer. Amer. bor.

6. **Asteroma Fuckelii** Sacc. *Asteroma atramentarium* Fuck. Symb. 1206
p. 384, nec Berk. — Stromate adnato, repente, fibrilloso, aterrimo; peritheciis numerosis, minutissimis, planis, subcupulatis, concoloribus; sporulis minutis, globosis.

Hab. in pag. inferiore foliorum Populi monilioidis, et P. Tremulæ, quæ interdum penitus fere atrantur, in Germania et Sibiria.

7. **Asteroma punctiforme** Berk. N. Am. F. n. 455. — Punctiforme; 1207
flocis radiantibus tenerrimis; sporulis simplicibus cymbiformibus,
3-4 nucleatis.

Hab. in foliis Rosarum in America boreali.

8. **Asteroma Haussknechtiae** Cooke, Grev. 1880, p. 13. — Peritheciis 1208
atris, minimis, in maculas nigras irregulares congestis; sporulis
arcte ellipticis, hyalinis, 6 μ . longis.

Hab. in foliis languidis Haussknechtiae, Luristan Persiæ
(HAUSSKNECHT). — «An *Asteromella?*».

9. **Asteroma Liriodendri** Cooke, Grev. XII. p. 25. — Amphigenum; 1209
maculis parvulis, suborbicularibus, fuligineis; peritheciis convexis,
atris; sporulis minutissimis, ovalibus, hyalinis, 1,5 \approx 1.

Hab. in foliis Liriodendri in Carolina infer. Amer. bor.

10. **Asteroma tinctorium** Cooke, Grev. XII. p. 25. — Epiphyllum; 1210
maculis suborbicularibus, atro-cinereis; peritheciis irregularibus,
applanatis, 100 μ . diam., atris; sporulis ovato-ellipticis, hyali-
nis, 2 \approx 1.

Hab. in foliis Quercus tinctoriæ in Carol. inf. Amer. bor.

11. **Asteroma Hedysari** Thüm. Pilzfl. Sibir. n. 608. — Maculas ma- 1211
gnas, plus minusve orbiculatas, obscure griseas, epiphyllas for-
mans; fibrillis dilute fuscidulis, ramulosis, tenuibus; peritheciis
minutis, dense congestis, hemisphæricis, atris, numerosis: sporulis
rarissimis, minutissimis, cylindræis, achrois, utrinque obtusis, 3 \approx 1.

Hab. in foliis vivis et languidis Hedysari setigeri pr. Mi-
nussinsk Sibiriae asiaticæ.

12. **Asteroma Hyperici** Lasch Hedw. 186, p. 158. — Peritheciis subro- 1212
tundis nigris, nucleo albo farctis, flocis radiantibus, subviridi-ci-
nerescentibus innatis, ostiolo obsoleto; sporulis oblongis.

Hab. in caulibus emortuis Hyperici perforati et atte-
nuati pr. Driesen (LASCH), Oestrich (FUCKEL), Minussinsk Sibiriae
(MARTIANOFF).

13. **Asteroma Martianoffianum** Thüm. Pilzfl. Sibir. n. 429. — Fibril- 1213
lis aterrimis, nitidis, in foliorum nervis congestis et delineationem
dendriticam formans, explanato-effusis, hypo-raro etiam epiphyllis;
peritheciis numerosis, plerumque sublinearibus, sparsis; spo-
rulis cylindræo-ellipticis, utrinque rotundatis, hyalinis, simplici-
bus, 5 \approx 2.

Hab. in graminosis ad folia viva Mulgedii sibirici prope Minussinsk Sibiriae asiaticæ.

14. **Asteroma radiatum** Fuck. Symb. p. 385. — Peritheciis in macula exaridæ centro congestis, applanatis, minutissime papillatis, aterrimis; sporulis minutissimis, cylindræis, curvatis, hyalinis.

Hab. in foliis adhuc vivis Dentariæ pentaphyllæ in Jura Helvetiæ (MORTIER).

15. **Asteroma Alliarie** Fuck. Symb. 385. — Fibrillis aterrimis, nitidis, primariis in foliorum nervis dense congestis, secundariis subtilissime fasciculato-ramosis; peritheciis ad fibrillas secundarias erumpentibus, mollibus, hemisphæricis, astomis, fuscis; sporulis parvis, simplicibus, cylindræis, hyalinis.

Hab. in foliis radicalibus viventibus Erysimi Alliarie in silva Grossgerau Germaniæ.

16. **Asteroma Dianthi** Cooke et Harkn. Grev. 1881, p. 84. — Maculis irregularibus, cinereis; peritheciis convexis; hyphis tenuibus, fuscis, radiantibus; sporulis minimis, hyalinis, ellipticis, 5-6 = 2.

Hab. in caulibus foliisque Dianthi in California Amer. bor.

II. *Asteromata dubia.*

Sporulæ et subinde ipsa perithecia adhuc ignota.

A) In Dicotyledoneis lignosis.

17. **Asteroma vagans** Desm. XIV. Not. p. 36. *Ast. Tiliæ* Rud. in Linnæa IV. p. 514. — Maculis amphigenis brunneis, siccis cinereis, orbiculatis, fibrillis tenuissimis, articulatis, ramosis, divaricatis, quoquoversus irregulariter radiantibus, epidermide tectis, articulis fibrillarum diametro suo sesquilongioribus; peritheciis sparsis exiguis, globosis, nigris semiemergentibus, circ. 50 μ . diam.

Hab. in foliis languidis Tiliæ, Carpini, Viburni Opuli, Populi Tremulæ, Syringæ vulgaris, Frangulæ in Gallia, Italia, Germania. — Fibrillæ sec. Rodulphi articulato-constrictæ, valde notabiles.

18. **Asteroma frigidum** Sacc. Mich. II, p. 369. — Fibrillis radiantibus copiosis, tenuibus, maculas subcirculares, 2-4 mill. diam., cinereo-nigricantes amphigenas efficientibus; peritheciis (vacuis) intermixtis, punctiformibus.

Hab. in foliis, hieme frigidissimo 1879-80 necatis, Evonymi japonici, Padova, Treviso, Firenze Italiæ et Rouen Galliæ.

19. **Asteroma inflatum** Rob. et Desm. 18 Not. p. 6. — Amphigenum; maculis griseo-cinereis, subrotundatis, sparsis vel confluentibus e

fibrillis innatis, inflatis aut nodosis radiantibus; nodulis seriatis sæpius oblongis, plus minusve approximatis; peritheciis non observatis.

Hab. in foliis deciduis *Evonymi latifolii* in Gallia.

20. **Asteroma nitidum** Desm. 9 Not. p. 22. — Epiphyllum, atrum, nitidum, rotundum, maculiforme, margine radiosum; peritheciis parum conspicuis, innatis, sparsis, subseriatis. 1220

Hab. in foliis vivis *Rhamni Alaterni* in Gallia.

21. **Asteroma comptum** Rob. et Desm. 26 Not. p. 349. — Epiphyllum; maculis amphigenis, cinereis, magnis, suborbiculatis, dein irregularibus et confluentibus; fibrillis epiphyllis, elongatis, compressiusculis, dichotomis, apice fasciculatis, primo albidis, dein piceo-nigris, in ambitu radiatis; peritheciis seriatis vix conspicuis. 1221

Hab. in foliis siccis *Viburni Lantanæ* in Gallia.

22. **Asteroma dendriticum** Desm. 16 Not. p. 349. — Epiphyllum, magnum, nigrum, rotundatum, maculiforme; fibrillis articulatis, brunneis, elongatis, ramosissimis, e centro radiantibus; ramis divaricatis; ramulis subfastigiatis, quandoque fasciculatis; peritheciis seriatis vix conspicuis. 1222

Hab. in foliis siccis et vetustis *Viburni Opuli* in Gallia et Germania. — *Sphæria? dendritica* Wallr. Fl. Crypt. n. 3912 huc verisimillime spectat.

23. **Asteroma Loniceræ** Desm. Ann. Sc. nat. 1840, p. 10. — Peritheciis microscopicis, globulosis, nigris, centralibus; maculis orbicularibus, opace nigricantibus, 3-5 mill. diam.; fibrillis radiantibus, nodulosis (ob perithecia?). 1223

Hab. in pag. sup. foliorum emortuorum *Loniceræ Periclymeni* in Gallia et Belgio.

24. **Asteroma Laureolæ** Chev. Fl. Par. I. p. 448. — Subrotundum foliumque pallide decolorans; fibrillis innatis; peritheciis minutis confertissimis, ad ambitum maculæ seriatis. 1224

Hab. in pagina superiore foliorum *Daphnes Laureolæ* in Gallia.

25. **Asteroma Mespili** Rob. et Desm. 18 Not. p. 6. — Amphigenum; maculis brunneis, sparsis, sæpe rotundatis, e fibrillis innatis ramosis centrifugis formatis; ramis numerosis divaricatis; peritheciis paucis, minutissimis, nitidulis. 1225

Hab. in foliis siccis *Mespili germanicæ* in Gallia. — **F. Eriobotryæ** Thüm. F. Lit. n. 174. In foliis subviviis *Eriobotryæ japonicæ*, Gorizia.

26. **Asteroma Pyracanthæ** Desm. 24 Not. p. 15 (*Asterina*). — Amphigenum, maculis minutis, brunneis; fibrillis vix distinctis epidermide tectis; peritheciis innatis exilissimis, nigris, nitidis, numerosis, in series dispositis; sporulis non visis. 1226
Hab. in foliis vivis, dein exsiccatis, Mespili *Pyracanthæ* in Gallia.
27. **Asteroma Cerasi** Rob. et Desm. 24 Not. p. 16. — Amphigenum; 1227
 maculis sparsis vel approximatis, minutis, rotundatis, e fibrillis innatis, nigris, ramosis; ramis dichotomis, rectis, radiantibus; peritheciis non observatis.
Hab. in foliis siccis *Cerasi* in Gallia. — Affine *Asteromati Mespili* et *Virgilicæ*. — β . **ramulicolum** Sacc. Mich. In ramulis *Cerasi* in Normandie (MALBRANCHE). Fibrillæ eximie radiato-fimbriatæ, articulis fuscidulis, guttulatis.
28. **Asteroma Mali** Desm. 8 Not. p. 13. — Epiphyllum, minimum, 1228
 rotundum, maculiforme, griseo-nigrum; fibrillis tenuissimis, margine vix distinctis.
Hab. in foliis *Mali* in Gallia et Italia boreali.
29. **Asteroma? Piri** Rob. et Desm. 24 Not. p. 17. — Maculis brun- 1229
 neolis, sparsis; fibrillis radiantibus nigris, nitidulis, ramulosis, flexuosis, parce intertextis, sursum leniter crassioribus; peritheciis ignotis.
Hab. in foliis *Piri* communis in Gallia.
30. **Asteroma Punicæ** (Mont.) Sacc. *Sphæria Punicæ* Mont. Ann. Sc. 1230
 Nat. 2. I. et Syll. n. 869, p. 345. — Hypophyllum; peritheciis innato-prominulis, minimis, nigris, astomis, maculas orbiculares stromate fibrilloso-radiato innato cinereas, demum nigras efformantibus.
Hab. in foliis delapsis *Punicæ Granati* circa Perpignanum Gallicæ.
31. **Asteroma alpinum** Sacc. Mich. II. p. 300. — Maculis minutis, sub- 1231
 cutaneis, atris, ex hyphis radiantibus efformatis; hyphis ramosis toruloso-septatis, fuliginis, articulis nucleatis, 10-20 μ . diam.
Hab. in foliis *Arctostaphyli alpinae*, Cadore Italiae borealis (S. VENZO).
32. **Asteroma circinans** Desm. 17 Not. p. 26. — Epiphyllum; 1232
 maculis minutis, orbiculatis, fuscis vel griseis, dein brunneis, sparsis, distinctis, quandoque confluentibus; fibrillis innatis, tenuissimis, sæpe inconspicuis, evanidis; peritheciis perexiguis, nigris, subnitidis, globosis, circinantibus.
Hab. in foliis vetustis *Phillyreæ* in Gallia, Austria et Ita-

lia boreali. — Sec. ipsum auctorem l. c. *Ast. Castaneæ* utpote hujus varietas censendum est.

33. **Asteroma Diospyri** (Schw.) Sacc. *Xyloma Diospyri* Schw. Carol. 1233
n. 272. — Epiphyllum, tenuissimum, opacum, atrum; peritheciis minutissimis in maculam substellatam confluentibus.

Hab. in foliis junioribus Diospyri virginianæ in America boreali. — Maculæ 2-3 unc. latæ multoties minores v. in folio vivo planæ expansæ, in sicco impressæ, concavæ. Color quam maxime ater et opacus; pagina inferior fuscescit.

34. **Asteroma Aceris** Rob. et Desm. Nouv. Not. X. p. 33. — Am- 1234
phigenum, maculiforme; fibrillis tenuissimis, rufo-brunneis, ramosis, flexuosis, quoquoersus irregulariter radiantibus; peritheciis sparsis, nigris, globosis, semi-emergentibus.

Hab. in foliis siccis Aceris campestris in Gallia.

35. **Asteroma Corni** Desm. Nouv. Not. X. p. 33. — Epiphyllum; ma- 1235
culis fuscis, suborbiculatis vel irregularibus et confluentibus; fibrillis innatis, fuscis, ramosis, e centro radiantibus; ramis brevioribus, divaricatis; peritheciis seriatis, vix conspicuis.

Hab. in foliis languescentibus Corni sanguineæ in Gallia et Helvetia.

36. **Asteroma obscurum** Desm. XIX. Not. p. 8. — Maculis epi- raro 1236
hypophyllis, atris, sæpe magnis, suborbiculatis, subinde confluentibus, fibrillis innatis, numerosis, confusis, fusco-nigris, ramosis; ramis ambitu radiatis; peritheciis minutissimis vix distinctis.

Hab. in foliis semiputridis Corni sanguineæ in Gallia, Germania et Helvetia.

37. **Asteroma rhoinum** Dur. et Mont. Fl. Alg. p. 610. — Amphigenum; 1237
maculis orbiculatis, tandem confluenti-crustaceis, atro-fuscis, inquinantibus; fibrillis a centro radiantibus laxè dichotomis simplici multiplicique serie cellularum formatis, apice dilatatis; peritheciis numerosis tenuibus; sporulis.....

Hab. in foliis siccis Rhois coriariæ, Bouzaréah Algeriæ (DURIEU) et in Istria (BOLLE).

38. **Asteroma confervoides** Grogn. Crypt. Saon. p. 126. — Macu- 1238
lis confertis, olivaceis; fibrillis brevibus, regularibus, confervoides, densis.

Hab. in ramulis vivis Lycii in Gallia. — Inter *A. delicatulum* et *A. tenerrimum* medium videtur.

39. **Asteroma umbonatum** Desm. 24 Not. p. 14 (*Asterina*). — Epi- 1239
phyllum; maculis minutis, fusco-brunneis, sparsis, rotundatis, dein

confluentibus; fibrillis tenerrimis, ramosis, sinuosis, radiantibus, epidermide umbonata semper tectis; peritheciis non observatis.

Hab. ad folia delapsa Ribis alpini in Gallia.

40. **Asteroma Virgiliæ** Rob. et Desm. 18 Not. p. 5. — Amphigenum; 1240
maculis numerosis, minutis, orbiculatis, castaneis vel rufis e fibrillis innatis, ramosis, radiantibus; ramis brevibus; peritheciis non observatis.

Hab. in foliis siccis Virgiliæ luteæ cultæ in Gallia.

41. **Asteroma Betulæ** Rob. et Desm. Nouv. Not. (X.) p. 35. — Am- 1241
phigenum maculiforme; fibrillis innatis, brunneis, ramosis e centro radiantibus; ramis numerosis, apice divergentibus; peritheciis erumpentibus, sparsis, minutissimis, nigris.

Hab. in foliis deciduis Betulæ in Gallia et Belgio.

42. **Asteroma Castaneæ** Desm. 9 Nouv. Not. (X.) p. 34. — Epi- ra- 1242
rius hypophyllum; maculis brunneis; minutis, orbiculatis, sparsis, distinctis vel confluentibus; fibrillis innatis, tenuissimis, evanidis, vix conspicuis, ramosis e centro radiantibus; peritheciis numerosis, perexiguis, nigris, subnitidis, sparsis, quandoque circinantibus.

Hab. in foliis vetustis Castaneæ in Gallia.

43. **Asteroma Capreæ** Desm. 14 Not. p. 34. — Epiphyllum; maculis 1243
magnis, irregularibus, fusco-fuliginis; fibrillis innatis, piceo-nigris, ramosis, e centro radiantibus; ramis numerosis, effusis, compressiusculis; peritheciis ignotis.

Hab. in foliis languentibus Salicis Capreæ in Gallia et Germania.

44. **Asteroma Salicis** Rob. et Desm. Nouv. Not. (X.) p. 35. — Epi- 1244
phyllum; maculis cinereis vel plumbeis; fibrillis innatis, nigris, ramosis, e centro radiantibus; ramis brevioribus, divaricatis, substigiatis, apice compressiusculis dilatatis; peritheciis ignotis.

Hab. ad folia decidua Salicis Capreæ, vitellinæ et albæ in Gallia, Belgio, Austria et Italia boreali.

45. **Asteroma Populi** Rob. et Desm. 14 Not. p. 35. — Epiphyllum; 1245
maculis nullis vel albidis, minutis, suborbiculatis, numerosis, sæpe confluentibus; fibrillis tenuissimis, brevibus, densis, ramosis, fusco-nigris, e centro radiantibus; peritheciis ignotis.

Hab. in foliis siccis Populorum in Gallia, Belgio et Lusitania.

46. **Asteroma Populorum** Fuck. Symb. p. 384 (*Actinonema*), *Asteroma* 1246
Populi Desm.? — Peritheciis gregariis, *Sphærellæ punctiformis* magnitudine, hemisphæricis, astomis, nitidis, aterrimis; fibrillis tenuissimis, liberis, radiantibus, olivaceis; sporulis nondum visis.

Hab. in foliis præcipue ad pag. sup. Populi Tremulæ in Rhenogovia.

47. **Asteroma angulatum** Desm. 24 Not. p. 14 (*Asterina*). — Amphigenum; maculis minutis, irregulariter rotundatis, angulatis, siccis griseo-cinereis, humidis brunneis, e fibrillis vix conspicuis, tenerrimis, ramosis, intricatis, subradiantibus, epidermide tectis; peritheciis ignotis. 1247

Hab. in foliis siccis Ulmi in Gallia.

48. **Asteroma Ulmi** Klotzsch, Cooke Handb. n. 1369. — Fibrillis tenerrimis, valde ramosis, radiantibus, subdichotomis flexuosis, macula brunnea insidentibus. 1248

Hab. in foliis vivis Ulmi campestris et scabræ in Britannia, Gallia, Lusitania. — A *Piggotia astroidea* (*Ast. Ulmi* Grev.) differre videtur. An diversum ab *A. maculari*?

49. **Asteroma maculare** Rud. in Linnæa IV. p. 117. — Epiphyllum maculiforme, fuscum; fibrillis in ambitu radiatis; peritheciis minutissimis, paucis. 1249

Hab. in foliis vivis Ulmi campestris in montibus Salisburgensibus.

B) In Dicotyledoneis herbaceis (cfr. *Ast. reticulatum*).

50. **Asteroma graphoides** Rob. et Desm. 24 Not. p. 16. — Epiphyllum hypophyllum et caulicolum; maculis minutis brunneis v. nullis; fibrillis prominulis, intense rufo-brunneis, ramosis e centro radiantibus; ramis divaricatis brevioribus; peritheciis ignotis. 1250

Hab. in foliis Stellaris holostearum in Gallia.

51. **Asteroma Gei** Fuck. Symb. p. 385. — Peritheciis in macula orbiculari, obscuriore, epiphylla numerosissimis, punctiformibus, hemisphæricis, papillatis, atris, in seriebus delicatissimis dispositis; sporulis non visis. 1251

Hab. in foliis languidis Gei urbani in Rhenogovia.

52. **Asteroma Pæoniæ** West. Exs. n. 1050, Kickx Fl. Fl. I. p. 387. — Fibrillis innatis, griseo-brunneis, ramosis, divergentibus, maculas subcirculares v. confluyendo irregulares in areolas subvinosas formantibus; peritheciis nigris, immersis (sterilibus). 1252

Hab. in pag. sup. foliorum Pæoniæ in Belgio.

53. **Asteroma Brassicæ** Chev. Fl. Par. p. 449. — Amphigenum; maculis pallide cærulescentibus cinctis; peritheciis ad centrum congestis, subprominulis atris. 1253

Hab. in foliis Brassicæ in Gallia et Germania.

54. **Asteroma Epilobii** Fr. Summa p. 425, *Dothidea Epilobii* Fr. S. M. 1254
II. p. 559. — Macula ambiente levigata, uniformi, picea; peritheciis
sparsis prominulis.

Hab. in caule *Epilobii angustifolii* in Gallia et Germania. — Maculæ subrotundo-diformes, determinatæ, 3-4 lin. longæ, passim confluentes, tenuissimæ, piceæ absque fibrillis, ubi sparsæ prominent cellulæ minutæ, inæquales, leves, albofarctæ, demum apice depressæ.

55. **Asteroma Ballotæ** Fuck. Symb. Myc. App. II. p. 82. — Peritheciis gregariis, minutis, aterrimis, superficialibus, irregularibus, astomis, in macula nigra fere totum caulem occupante; fibrillis delicatissimis, fuscis.

Hab. in caule languido et sicco *Ballotæ nigræ* in Rhénogovia.

56. **Asteroma Fuckelii** Sacc., *Aster. maculare* Fuck. Symb. p. 285, 1256
nec Rud. — Peritheciis gregariis, subconfluentibus, globosis, in ostiolum conicum protractis, nitidis, aterrimis; fibrillis tenuissimis, repentibus, fuscis circumdatis.

Hab. in caulibus emortuis *Galeopsidis Tetrahit* in Rhénogovia.

57. **Asteroma Prunellæ** Purt. Baxt. Ox. n. 79. — Epiphyllum; fibrillis nigricantibus, rectis, e perithecio conico vel paucis centralibus fasciculatim radiantibus.

Hab. in pag. sup. foliorum vivorum *Prunellæ vulgaris* et *hastifoliæ* in Britannia, Belgio, Gallia, Lusitania. Habitus fere algæ *Hutchinsiae* dictæ.

58. **Asteroma Robergii** Desm. Ann. Sc. Nat. 1840, XIII. pag. 181 1258
(*Actinonema*). — Fibrillis ramosis; ramis paucis fusco-nigris (sub micr. olivaceis) articulatis, nodosis; articulis diametrum æquantibus vel 3-4-plo longioribus, basi 20 μ . cr.; peritheciis ignotis.

Hab. in caule (sæpius interiore) *Heraclei Sphondylii* in Gallia et Germania. — Var. **Arundinariæ**. In ejusdem interiore culmo in Carolina infer. Amer. bor.

59. **Asteroma dilatatum** Berk. Crypt. antarct. p. 61, t. LXVIII. f. VII. 1259
— Superficiale; maculis ricciæformibus; lobis dilatatis e filamentis serpentibus approximatis in membranam congestis.

Hab. in foliis *Panacis simplicis* in insulis Auckland.

60. **Asteroma Thümeni** Sacc., *Aster. Bupleuri* Thüm. Pilzfl. Sibir. 1260
n. 799, nec Sacc. et Roum. — Peritheciis densissime gregariis, hemisphæricis, minutis, sæpe confluentibus, nitido-atris, apice per-

tusis, maculas striæformes, nervisequentes nigras efficiens; fibrillis tenuissimis, paucis, subramosis, griseis; sporulis ellipsoideis, utrinque rotundatis, simplicibus, griseis, sæpe nucleatis, $8 \approx 4$.

Hab. in foliis emortuis Bupleuri ranunculoidis in silvis frondosis humidis prope Patroschilowo Sibiria Asiaticæ.

61. **Asteroma Bupleuri** Sacc. et Roum. Mich. II. p. 369. — Amphigenum, maculas latas, piceas, subcontinuas efformans; peritheciis creberrimis, lenticularibus, 80μ . diam. (vacuis), hyphulis fuliginis conjunctis. 1261

Hab. in foliis Bupleuri rigidi, Lozieres (Gard) Gallia (TERRY). — Status *Sphaerellæ* — *Asteroma Roumegueri* J. Kunze Exs. n. 238, in foliis Bupleuri falcati, Eisleben Germaniæ, mihi non diversum videtur.

62. **Asteroma vernicosum** (DC.) Fuck. Symb. p. 385, *Sphaeria vernicosa* DC. Franc. VI. p. 138. — Macula levigata, nitida, nigra, margine radiosa; peritheciis centralibus, subconico-prominulis. 1262

Hab. in caulibus Chærophylli, Heraclei, Spirææ Ullmaria et Arunci in Gallia, Germania et Hungaria. — Macula sub lentibus optimis e fibris tenerrimis formata, margine tantum visibilibus; peritheciis in centro sparsis, convexis, subconicis, astomis. Cfr. Kalchbr. Szep. Gomb. p. 272.

63. **Asteroma Medusula** Dur. et Mont. Fl. Alg. I. p. 609. — Maculis primo orbiculatis, olivaceis, tandem piceis, e fibrillis innatis, flexuosis, centrifugis formatis; peritheciis inæqualibus, centrali majori; sporulis 1263

Hab. ad caules Umbelliferarum v. gr. Ferulæ, Dauci, Fœniculi in Algeria (DURIEU), Gallia australi (ROUMEGUÈRE).

64. **Asteroma impressum** Fuck. Symb. App. II. p. 82. — Epiphyllum; fibrillis foliorum vivorum epidermidi impresso-adnatis, dichotomo-multipartitis, primariis latiusculis, ultimis tenuissimis, tuberculatis, atro-fuscis, maculas magnas castaneas vel rubidas formantibus; peritheciis (?) demum in foliis marcescentibus, numerosis, minutis, patellæformibus, nigris; sporulis nondum visis. 1264

Hab. in foliis viventibus Tussilaginis Farfaræ, Ragaz Helvetiæ.

65. **Asteroma Cacaliæ** Desm. 16 Not. p. 348. — Epiphyllum; maculis nullis; fibrillis innatis, brunneo-rufis, connatis, membraniformibus, ramosis, irregulariter radiantibus; ramis divaricatis, apice cuneatis vel penicilliformibus; peritheciis ignotis. 1265

Hab. in foliis Cacaliæ (Adenostylis) Petasites in Gallia, et Tussilaginis Farfaræ in Belgio.

66. **Asteroma atratum** Chev. Par. p. 449. — Maculis inæqualibus, 1266
fusco-atris; peritheciis minimis, undique stipatis, prominulis.

Hab. in foliis Solidaginis Virgaureæ, et perfectius et speciosius in foliis Cacaliarum in Gallia (MOUGEOT et CHAILLET). — Maculæ valde obscuræ, varie confluentes et indeterminatæ. Perithecia minima, prominula, admodum conferta, epiphylla, superficiem omnem macularem occupantia, sed non confluentia.

67. **Asteroma Trifolii** Grogn. Crypt. Saon. p. 127. — Maculis mi- 1267
nutis, pallide brunneis, margine saturatoribus; fibrillis paucis, parum distinctis; peritheciis mediis, depressis, atrobrunneis.

Hab. in foliis Trifolii in Gallia.

68. **Asteroma Orobi** Fuck. Symb. p. 386. — Peritheciis sparsis, mi- 1268
nutis, dense dispositis, in fibrillis delicatissimis fuscis insidentibus.

Hab. in foliis subvivi Orobi verni in Jura Helvetiæ et in Italia boreali.

69. **Asteroma Euphorbiæ** Fuck. Symb. p. 385. — Peritheciis minu- 1269
tissimis, dense congestis, atris, in fibrillarum ramosarum centro dispositis; sporulis non visis.

Hab. in caulibus languidis Euphorbiæ Gerardianæ in Rhenogovia.

70. **Asteroma Gentianæ** Fuck. Symb. p. 386. — Fibrillis delicatis, 1270
ramosis, maculas magnas, fuscas formantibus; peritheciis sparsis, seriatis, subglobosis, aterrimis.

Hab. in pag. inferiore foliorum Gentianæ luteæ in Jura Helvetiæ (MORTIER).

71. **Asteroma latebrarum** Grogn. Crypt. Saon. p. 128. — Maculis pa- 1271
rum distinctis, subochraceis; fibrillis copiosis, pallidis, parum conspicuis (contra lucem tamen evidentissimis); peritheciis brunneolis, raris.

Hab. in foliis Violæ tricoloris arvensis in Gallia.

72. **Asteroma tenerrimum** Grogn. Crypt. Saon. p. 125. — Maculis 1272
brunneo-rubidis, dein griseo-olivaceis; fibrillis tenerrimis, brevibus, tortuosis, vix anastomotis parumque radiantibus; peritheciis rotundatis, prominulis, majusculis, brunneo-opacis.

Hab. in caulibus siccis Lili pomponii in hortis Saone et Loire Galliæ. — Var. **Petroselini**: magis virens; peritheciis majoribus. — Var. **Iridis**: maculis brunneolis, vix distinctis; peritheciis nitidulis. — Var. **Aconiti**: maculis elongatis, brunneo-viola-

scentibus. — Var. **subparallelum** (Phlogis): maculis sordidis; fibrillis magis parallelis. — Var. **Gei**: fibrillis brevibus, brunneo-violescentibus. — Var. **Sambuci**: fibrillis brevibus; maculis minutis confertis, atris. — Var. **entogenum** (Centranthi): maculis cinereo-brunneis; fibrillis ut plurimum transversalibus confertis. — Var. **Tropæoli**: fibrillis elongatis, distinctis, brunneis; peritheciis depressis. — In caulibus plantarum citatarum in hortis Gallæ. Omnes varietates describuntur a Grognot l. c.

73. **Asteroma elegans** Rob. et Desm. 24 Not. p. 15. — Cauliculum; 1273
fibrillis laxè ramosis, brunneis, sinuosis, quandoque subinflatis a centro radiantibus; ramis ultimis brevibus; peritheciis ignotis.

Hab. in caulibus exsiccatis Polygoni Persicariæ in Gallia.

C) In fructibus et gallis Dicotyledonum.

74. **Asteroma? Achenarum** Rob. et Desm. 17 Not. p. 27. — Fibrillis 1274
tenuissimis, ramosis, fusco-nigris, articulatis, articulis diametro æqualibus vel 2-3-plo longioribus.

Hab. in acheniis Compositarum, præcipue Cirsii acaulis et Helianthi annui in Gallia.

75. **Asteroma pomarii** Grog. Crypt. Saon. p. 127. — Maculis mi- 1275
nutis, circularibus, rarius radiantibus reticulatisque, sordide nigris, vix granulosis.

Hab. in pomis nondum putridis in pomariis Gallæ.

76. **Asteroma incomptum** Rob. et Desm. 24 Not. p. 16-17. — Ma- 1276
culis griseo-brunneis, ovatis vel subelongatis; fibrillis tenerrimis, ramosissimis, sinuosis, subintricatis, epidermide tectis; peritheciis paucis, exilissimis, globosis, subnigris; sporulis ignotis.

Hab. in fructibus siccis Fraxini in Gallia.

77. **Asteroma delicatulum** Desm. XIX. Not. p. 8. — Maculis minutis 1277
orbiculatis, quandoque confluentibus, humidis subolivaceis, siccis griseo-nigris; fibrillis innatis, tenerrimis, flexuosis, e centro radiantibus; ramis paucis elongatis, subdichotomis, articulatis, articulis diametro æqualibus; peritheciis minutissimis, sparsis globosis.

Hab. ad legumina Coluteæ arborescentis in Gallia. — An forma in siliquis Lunariæ biennis, Coimbra Lusitaniæ, a Thümen citata huc vere spectet, nescio.

78. **Asteroma gallicolum** Desm. in Grog. Crypt. Saon. p. 127. — 1278
Maculis nigris, densis, subcircularibus; fibrillis radiantibus, brevibus, confertis; peritheciis raris, exiguis.

Hab. in gallis ad folia Fagi in Gallia.

D) In Monocotyledoneis (Cfr. *Asteroma tenerrimum* n. 72).

79. **Asteroma Angreci** Gall. et Feuill. Rev. Myc. V. p. 181. — Ma- 1279
culis epiphyllis, orbicularibus, nigris; fibrillis tenerrimis, $\frac{1}{10}$ mill.
crass., radiatis; peritheciis punctiformibus, nigris, secus fibrillas
seriatis (immaturis).

Hab. in foliis Angreci fragrantis, Ile Bourbon (JETIQUE).

80. **Asteroma reticulatum** (DC.) Chev. Par. I. p. 447, *Sphæria reti-* 1280
culata DC. Fl. Fr. VI. p. 138, *Dothidea* et *Cambosira reticulata*
Fr., *Asteroma Polygonati* DC. — Epiphyllum, atrum; macula nul-
la; fibrillis liberis, longitudinaliter serpentibus, subramosis jungen-
tibus perithecia subseriata.

Hab. in foliis Convallariæ Polygonati et C. multi-
floræ in Gallia, Germania, Britannia, Italia, Sibiria, Lusitania:
etiam in caulibus descendit, tum crescit in series longiores; sed
simplices, strictas, interruptas, tuberculis rarioribus. — Var. **Eryn-**
gii Desm. In foliis Eryngii campestris in Gallia.

81. **Asteroma venulosum** (Wallr.) Fuck. Symb. p. 384, *Sphæria ve-* 1281
nulosa Wallr. Fl. Crypt. n. 3911. — Peritheciis microscopicis ni-
gris, gregariis, adnatis, hemisphæricis, dein depressis centro obso-
lete papillato albis, basi fibrillulas stromaticas adpressas delicatis-
simas concolores periphericas emittentibus, greges concentricas ma-
culari-punctatas mentientibus.

Hab. ad folia putria Sparganii ramosi in Germania. —
Adsunt formæ in foliis Iridis Pseudacori in Italia bor., et
Asphodeli ramosi in Lusitania.

82. **Asteroma immaculatum** Grog. Crypt. Saon. p. 126. — Maculis 1282
obsoletis; fibrillis olivaceis, laxis, nodulosis; peritheciis brunneolis.

Hab. in caulibus siccis Gladioli culti in Gallia.

83. **Asteroma Jucaginearum** Rabenh. D. Crypt. Fl. n. 1269, *Asteroma* 1283
Calvadosii Desm. 18 Not. p. 7. — Caulicolum et epiphyllum; ma-
culis primo olivaceis, dein nigris, levigatis, subnitidis, ovatis vel
elongatis; fibrillis piceis arcte applicatis, compressis, ramosis, cen-
trifugis radiantibus; ramis rectis, fasciculatis; ramulis subpalmatis,
quandoque fastigiatis; peritheciis minutis, sparsis.

Hab. in scapis foliisque Triglochinis maritimi et pa-
lustris, Calvados Gallia, in Belgio et Germania.

84. **Asteroma confusum** Grog. Crypt. Saon. p. 128. — Ab *A. de-* 1284
licatulo differt fibrillis magis confusis, minus ramosis, sed tamen
intertextis; maculis fuscidulis, laxioribus.

Hab. in foliis siccis Zeæ Maydis in Gallia.

85. **Asteroma Donacis** Grogn. Crypt. Saon. p. 127. — Maculis umbrinis, opacis; fibrillis brevibus, latiusculis, confertis, quandoque deficientibus; peritheciis mediis prominulis, atris. 1285

Hab. in foliis Arundinis Donacis in Gallia.

86. **Asteroma Graminis** West. Exs. n. 1051, Kickx Fl. Fl. I. p. 387. — Fibrillis adnatis, ramulosis, tenerrimis, maculas subrotundas olivaceas dein nigricantes formantibus; peritheciis perexiguis, nigris, sparsis. 1286

Hab. in vaginis culmisque Ammophilæ arenariæ et Zeæ Maydis, Ostende Belgii.

87. **Asteroma concinnum** Dur. et Mont. Fl. Alg. p. 610. — Maculis punctiformibus, nigris, sparsis, e fibrillis innatis radiantibus, confluenti-membranaceis, fuscis conflatis; peritheciis minutis, centro congestis, atris; sporulis 1287

Hab. ad basin culmorum Arundinis mauritanicæ, Mostaganem Algeriæ (DURIEU).

E) In Acotyledoneis.

88. **Asteroma fugax** Rob. et Desm. 24 Not. p. 17. — Fungicolum, fugax; fibrillis ramosis, paucis, innatis, tenerrimis, brunneo-griseis a centro radiantibus; peritheciis ignotis. 1288

Hab. in peridiis Tulostomatis brumalis, Calvados Galliæ.

89. **Asteroma Equiseti** Grogn. Crypt. Saon. p. 128. — Fibrillis ut plurimum transverse positis, subtortuosis, elongatis; peritheciis minutis, depressis, levibus, tectis. 1289

Hab. in caulibus Equiseti in Gallia.

F) Species nomine tantum notæ.

90. **Asteroma Zeæ** West. Les Crypt. d. l. stat. natur. p. 319, Thüm. Contr. Lus. n. 627. 1290

Hab. in rachide spicarum feminearum Zeæ Maydis, Coimbra Lusitaniæ (M. FERREIRA).

91. **Asteroma corallinum** Mont. in Lév. Ann. Sc. Nat. 1846, p. 284. 1291

Hab. ad folia Drymidis chilensis in Chili (GAY).

YPSILONIA Lév. Ann. Sc. Nat. 1846, p. 284. (Etym. ab Y. ob formam sporularum). — Perithecia globosa minuta, sessilia, subiculo radiante imposita, ostiolo inconspicuo. Sporulæ elongatæ, furcatæ seu 3-radiatæ, hyalinæ. — Genus phyllogenum, *Asteromati* affine

sed sporulæ prorsus alienæ. Fries tamen (Summa p. 424) suspicatur s. d. sporulas mera basidia esse, sed habentur re vera in aliis generibus sporæ ramoso-radiatæ v. furcatæ.

1. **Ypsilonia cuspidata** Lév. l. c. — Hypophylla; peritheciis gregariis, nigris, levibus, subiculi fibrillis simplicibus adnatis nigricantibus; sporulis elongatis, furcatis (ut Y), hyalinis, continuis, intus granulosis. 1292

Hab. ad pag. infer. foliorum Anonaceæ cujusdam, Manilla (CUMING). — Maculæ minutæ nigræ, 3-4 mill. latæ.

CICINNOBOLUS Ehrenb. Bot. Zeit. 1853, p. 16. (Etym. *Cicinnos*, cinnus et *bolos*, jactus). *Ampelomyces* Ces. Bot. Zeit. 1852, p. 302. — Perithecia minima conica, oblonga vel subpiriformia, sæpe stipitellata, membranacea ochraceo-fusca, vertice pertusa, in *Oidiorum* hyphis parasitica (an ex his oriunda?). Sporulæ ovoideæ, continuæ, hyalinæ, longe cirrose expulsæ. — Spermogonia *Erysiphacearum* videntur, sed plures nolunt.

1. **Cicinnobolus Cesatii** De Bary Morph. und Phys. d. Pilze p. 71. — 1293
Peritheciis mycelio *Oidii Tuckeri* et *O. erysiphoidis* innatis; hyphis propriis erectis, brevibus, articulatis, hyalinis vel fuscis; peritheciis in hyphis acro-pleurogenis clavatis vel piriformibus, minimis, 25-35 = 9-15, contextu minute parenchymatico ochraceo-fuligineo, vertice pertusis; sporulis tereti-oblongis vel ovoideis, rectis curvulisve, utrinque rotundatis, hyalinis, 2,5-3 = 1, 1-2-guttulatis, in cirros longos exsurgentibus.

Hab. in *Oidio Tuckeri* et *O. erysiphoides* ad folia *Vitis*, *Rhamni*, *Antirrhini*, *Humuli*, *Violæ*, *Lini*, *Mespili*, *Lycii*, *Isatidis*, etc. etc. in Italia, Gallia, Germania, Lusitania, Britannia, Ægypto.

NEOTTIOSPORA Desm. X. Not. Crypt. p. 12. (Etym. *neottos* pullus v. *neottia* nidus, et *spora*). — Perithecia omnino immersa, spherica, membranacea, ostiolo orbiculari v. irregulari aperta. Sporulæ oblongo-fusoideæ, apice penicillato-setulosæ, continuæ, hyalinæ.

1. **Neottiospora Caricum** Desm. X. Not. p. 12, *Dilophospora Caricum* (Desm.) Fuck. — 1294
Peritheciis immersis, epidermide atrata tectis, globosis; contextu parenchymatico olivaceo; nucleo roseo subgelatinoso; ostiolo orbiculari, lato, nigricante; sporulis fusoidis, 12-14 = 3, subhyalinis, 3-4-guttulatis, apice penicillum setularum 3-4 subinde furcatarum mox fluxile gerentibus.

Hab. in foliis emortuis Caricis paludosæ, pendulæ, ripariæ etc. in Gallia, Italia, Britannia, Germania.

2. **Neottiospora coprophila** Speg. Mich. I. p. 481. — Peritheciis minutissimis, 80-70, globosis, astomis(?), irregulariter dehiscentibus, contextu densiusculo, parenchymatico-indistincto; sporulis oblongo-fusoideis, $25 \approx 3$, utrinque acutiusculis, nubiloso-granuloso-fartis, hyalinis, sessilibus, apice tribus rostellis exilissimis, $20 \approx 1$, ornatis. 1295

Hab. in fimo ovino vetusto in pratis circa Conegliano Italiæ bor., socia *Delitschia Winteri*.

SIROCOCUS Preuss Fungi Hoyersw. n. 306. (Etym. *seiros*, catena et *coccus*). — Perithecia completa, subcarbonacea, erumpentia vel superficialia, sæpius subastoma. Sporulæ subglobosæ, catenulatæ e basidiis filiformibus oriundæ. — Quibus notis facile ab *Hormococco* et *Trullula* dignoscitur.

1. **Sirococcus conorum** Sacc. et Roum. Mich. II. p. 628. — Peritheciis gregariis subsuperficialibus, globoso-lenticularibus, $\frac{1}{3}$ - $\frac{1}{2}$ mill. d., nigris, intus niveis, astomis, contextu minute parenchymatico, fuligineo; sporulis globosis, $2-2\frac{1}{4}$ μ . d., 1-guttatis, hyalinis e basidiis cylindræis, $20 \approx 2$, hyalinis, catenulatim oriundis. 1296

Hab. in squamis conorum Abietis in Arduennis (LIBERT).

2. **Sirococcus strobilinus** Preuss Fungi Hoyersw. n. 306. — Peritheciis subdifformibus, rotundatis, gregariis, simplicibus vel confluentibus, erumpentibus, atro-nitentibus; nucleo albo; basidiis furcatis, filiformi-clavatis, albis; sporulis fusiformibus, utrinque obtusis, albis, concatenatis. 1297

Hab. ad conos dejectos Pini Abietis, Hoyerswerda.

3. **Sirococcus cylindroides** Sacc. — Peritheciis gregariis, velatis, dein, epidermide secessa, superficialibus, globoso-conicis, dein collabescens, papillulatis, $\frac{1}{2}$ - $\frac{1}{2}$ mill. diam., atris, duriusculis; sporulis in catenulas simplices vel parce ramosas, 50-60 μ . longas digestis, cylindricis, utrinque subtruncatis, $6-7 \approx 1,5$, subhyalinis, ex basidiis sporomorphis, fasciculatis oriundis. 1298

Hab. in caule emortuo *Adenostylis albifrontis* in Jura prope Neuchatel, socia *Leptosphaeria Nitschkei* Rehm (MORTIER).

PECKIA Clinton in Rep. on the St. Mus. N. York. (Etym. a PECK, præclaro botanico Amer. bor.). — Perithecia carbonacea, globulosa, vix papillata, glabra. Sporulæ continuæ, hyalinæ vel sub-

hyalinæ in catenulas subinde ramosas digestæ, modo reticulatim connexæ, modo muco obvolutæ. — A *Myxormia* et *Hormococco* præsentia peritheci differt, sed a *Sirococco* vix distinguitur.

1. **Peckia Sarracenix** Peck et Clinton in Rep. of St. Mus. N. York. 1299

— Peritheciis sparsis vel in acervulos minutos subaggregatis, interdum macula nigricante insidentibus, minutis, leniter prominulis, nigris; catenulis sporularum reticulatim ramosis; sporulis oblongis, angustis, hyalinis, 7-8 μ . longis.

Hab. in foliis emortuis Sarracenix purpureæ, Buffalo Amer. bor. (CLINTON).

2. **Peckia Clintonii** Peck in Rep. of St. Mus. N. York, t. 2, f. 6-9. 1300

— Peritheciis sparsis, in utraque folii pagina prominulis, levibus, nigris; sporularum catenulis muco obvolutis subinde lateraliter connexis; sporulis subcuboideis, hyalino-chlorinis, 5 μ . diam.

Hab. in foliis putrescentibus Smilacinæ trifoliæ, Buffalo Amer. bor. — Sporulæ sæpe plasmate diviso fætæ.

MURICULARIA Sacc. Mich. I. p. 95 (Etym. a *murex* ob perithecia muricata). — Perithecia globosa, astoma, membranaceo-tenacella, superficialia, undique muriculata. Sporulæ variæ botuliformes, quandoque gibbosæ v. subramulosæ, hyalinæ. — An aptius ad *Nectrioideas* ducendum genus?

1. **Muricularia eurotioides** Sacc. l. c. et F. it. t. 94. — Peritheciis 1301

globosis, membranaceo-tenacellis, ex albo ochraceis, 100 μ . diam., undique aculeolos elongato-conoideos, 1-cellulares, ima basi annulato-subconstrictos, hyalinos gerentibus; peritheci contextu minute granuloso; sporulis copiosissimis e strato prolifero tenui immediate oriundis, polymorphis nunc botuliformibus, nunc medio ventricosis, nunc subfurcatis, polis obtusiusculis, et 1-guttulatis, hyalinis, jodii ope intense cæulascentibus, strato prolifero vero eadem ope intense flavescente.

Hab. in nidis vesparum putrescentibus, socio *Aspergillo vivente*, Padova Ital. bor.

STAUROCHÆTA Sacc. F. Ven. Ser. IV. p. 40 (Etym. *stauros*, crux et *chæte*, seta). — Perithecia erumpenti-superficialia, membranacea v. carbonacea, sphæroidea, atra, subastoma, setis rigidulis, apice stellatis v. stellato-ramulosis undique obsita. Sporulæ ovoideæ v. oblongæ, continuæ, diaphanæ sed dilute fuscellæ. — Genus pulchellum setulis stellatis statim dignoscendum.

1. **Staurochæta minima** Sacc. Fung. Ven. Ser. IV. p. 40. — Peritheciis globulosis, vertice depressiusculis, sparsis, minutissimis, $\frac{1}{7}$ circiter mill. diam., atris, setis divergentibus, 1-cellularibus, basi subincrassatis, apice stellatis h. e. radios 3-5 interdum ramulosos, patientes, acutos gerentibus, 50 μ . longis, 10 μ . crassis, obscure fuligineis, undique densiuscule obsitis; perithecii contextu distincte parenchymatico, monostromatico, fuligineo; sporulis ovoideis, 8-10 \simeq 4-5, dilute fuligineis, eguttulatis.

Hab. in ramis corticatis putrescentibus Ulmi campestris, Padova Ital. bor.

2. **Staurochæta membranacea** Cooke in Grevillea. — Gregaria; peritheciis applanatis, 80 μ . diam., membranaceis, fuscis, supra hyphis septatis, furcatis, radiantibus ornatis; sporulis ovalibus, 12 \simeq 9-10, hyalino-fuscis, vix coloratis.

Hab. in gallis siccis Quercuum, Aiken in Carolina inferiori Americæ borealis (RAVENEL).

PYRENOCHÆTA De Not. Micr. ital. Dec. V. pag. 15 (Etym. *pyren*, pyrenium seu perithecium et *chæte*, seta). — Perithecia globoso-conica, innato-erumpentia, membranacea v. subcarbonacea, nigra, ostiolo pertusa, setis rigidis (præcipue ad verticem) vestitis. Sporulæ continuæ, ovoideæ, oblongæ, v. cylindraceæ, continuæ, subhyalinæ, basidiis bacillaribus suffultæ.

1. **Pyrenochæta nobilis** De Not. Micr. ital. Dec. V. f. 9. — Peritheciis hypophyllis, ovoideis v. subglobosis, $\frac{1}{4}$ mill. diam., innato-erumpentibus, vertice tenuato setisque rigidis, atris, longiusculis hirto; ostiolo circulari latiusculo; basidiis fasciculatis filiformibus alterne ramulosis, ramulis cylindricis, brevibus, diametro triplo longioribus; sporulis cylindricis hyalinis, utrinque obtusis, continuis e solutione ramulorum ortis.

Hab. in foliis dejectis Lauri nobilis, Genova Ital. bor., rarius — ***lignicola** Sacc. Mich. II. p. 276; peritheciis subsuperficialibus, globoso-conoideis, $\frac{1}{4}$ mill. diam., subcarbonaceis, setulis fuligineis continuis, 110-120 \simeq 5-6 vestitis; sporulis allantoideis, 4 \simeq 1-1 $\frac{1}{4}$, hyalinis, basidiis vage vel verticillato-ramosis, acicularibus, 20-25 \simeq 1 suffultis. — In ramis decorticatis Alni glutinosæ, Selva Italiæ borealis.

2. **Pyrenochæta Stanhopeæ** Winter Contr. Myc. Lus. n. 793. — Peritheciis amphigenis, erumpentibus, sine macula, gregariis sparsisve, atris, setis fuscis, sæpe flexuosis continuis obsitis; sporulis oblon-

gatis vel cylindræis, utrinque rotundatis, continuis, guttulis, hyalinis, 14-23 = 4-7.

Hab. in foliis aridis Stanhopeæ eburneæ in horto botanico Coimbra Lusitaniæ.

3. **Pyrenochæta ferox** (De Not.) Sacc. *Sphæroncema ferox* De Not. 1306
 Micr. ital. Dec. III. p. 12, t. IX. — Maculis in caule fuscescentibus; peritheciis, epidermide tectis, globoso-depressis, obtuse conoideis, fuscis, tenuibus, circa ostiolum latiusculum setulis rigidulis, plus minusve copiosis patentibus, pellucidis ornatis; sporulis cylindræis utrinque obtusis, perlaceo-diaphanis, 8-9 = 1-1,5, dein pulveraceo-erumpentibus.

Hab. in caulibus Solani aliarumque herbarum in hortis Genova Italiæ borealis.

4. **Pyrenochæta vinosa** Sp. F. Argent. Pug. III. n. 102. — Peritheciis minutis, 100-120 μ . diam., macula latiuscula œnocyanea insidentibus, primo tectis, dein, epidermide secedente, superficialibus, globosis, ubique piloso-hirtellis, atris, coriaceo-carbonaceis, ostiolo impresso-pertusis; sporulis elliptico-fusoideis, utrinque acutiuscule rotundatis, 5-7 = 2-2,5, hyalinis, 2-3-guttulatis.

Hab. ad folia caulesque emortua Eryngii agavifolii in paludosis à la Boca del Riachuelo, Argent. Amer. merid.

5. **Pyrenochæta seminicola** (B. et Br.) Sacc. *Sphæropsis seminicola* 1308
 B. et Br. F. of Ceyl. n. 791. — Minuta, gregaria, libera, setis rigidis sparsa; sporulis oblongis, angustis, obtusis, 12 μ . longis.

Hab. in seminibus Artocarpi integrifoliæ, Peradeniya Ceylon.

6. **Pyrenochæta penicillata** Fuck. Symb. p. 378. — Peritheciis gregariis, primo tectis, dein liberis, globosis, vertice conicis, pilis concoloribus patentibus coronatis, semine *Papaveris* triplo minoribus, atris; sporulis cylindræis, rectis, utrinque obtusis, continuis, 14 = 4, hyalinis.

Hab. in caulibus Medicaginis sativæ in Italia bor. et Germania.

7. **Pyrenochæta acicola** (Lèv.) Sacc. *Vermicularia acicola* Lèv. Ann. 1310
 Sc. Nat. 1848, p. 259. — Peritheciis gregariis, innatis, erumpentibus, subglobosis, intus extusque nigris, pilis divergentibus obsitis; sporulis minutissimis, ovatis, continuis, hyalinis.

Hab. ad folia decidua Pini silvestris in Vogesis.

8. **Pyrenochæta rhenana** Sacc. *Herpotrichiæ rhenanæ* spermogonium 1311
 Fuck. Symb. p. 146. — Peritheciis sparsis gregariisve, subliberis,

globosis, rugulosis, pilis fuscis, decumbentibus repentibusque dense tectis, vertice applanatis, subglabris; sporulis cylindræis, curvatis, minutis, hyalinis.

Hab. in caulibus putridis Urticæ dioicæ, Reichartshausen Germaniæ.

9. **Pyrenochæta hirta** Sacc. *Massariæ hirtæ* spermogonium Fuck. 1312
Symb. p. 155. — Peritheciis minutis, atris, pilis pallidioribus undique tectis, sub epidermide nidulantibus; sporulis oblongis, continuis, rectis, utrinque obtusis, hyalinis, 6 \approx 2.

Hab. in ramis corticatis Sambuci racemosæ in Rhenogovia.

10. **Pyrenochæta Erythrinæ** (Arc.) Sacc. *Phoma Erythrinæ* Arcang. 1313
Erb. Critt. It. Ser. II. n. 1380. — Peritheciis punctiformibus, gregariis v. sparsis, atris, margine conspicue setuligeris; sporulis elongatis, utrinque acutis v. apice rotundatis, sæpe curvulis hyalinis, guttulatis, 18-21 \approx 4-5.

Hab. in ramis emortuis Erythrinæ Cristæ-galli in horto botanico pisano (ARCANGELI).

11. **Pyrenochæta exosporioides** Sacc. *Tricosphæriæ exosporioidis* 1314
spermogonium Fuck. Symb. p. 145. — Peritheciis minutissimis, superficialibus, aterrimis, globosis, basi pilis concoloribus, perithecio duplo longioribus cinctis; sporulis ellipticis, continuis, rectis, hyalinis, 10 \approx 3.

Hab. in foliis siccis languidisve Caricis glaucæ, Æstrich Germaniæ.

12. **Pyrenochæta Luzulæ** (West.) Sacc. *Vermicularia Luzulæ* West. 1315
Bull. Ac. Belg. Ser. 2, t. XII. n. 7, cum icone. — Peritheciis superficialibus, nigris, rotundatis, leniter applanatis, basi fibrillis ramosis insidentibus setisque rigidis, divergentibus, brevibus, nigro-brunneis, apice hyalinis obsitis, ostiolis piriformibus irregularibusque; sporulis hyalinis globulosis, 5 μ . diam.

Hab. in foliis Luzulæ maximæ, Nassogne, Luxembourg.

13. **Pyrenochæta tarda** Sacc. *Trichosphæriæ tardæ* spermogonium 1316
Fuck. Symb. p. 145. — Peritheciis sparsis, seminis *Papaveris* magnitudine, globosis, undique strigoso-pilosis, olivaceo-fuscis, ostiolis minutissimis; sporulis copiosis, cylindræis, rectis vel perparum curvatis, 4-guttulatis, 3 \approx 2, hyalinis.

Hab. in charta putri prope Æstrich Rhenogoviæ.

VERMICULARIA Fr. Summa V. S. p. 419, nec Tode (Etym. a *vermiculus*, ob sporulas sæpe cylindræas). — Perithecia erumpentia

vel subsuperficialia, membranaceo-carbonacea, atra, globoso-conica, demum subinde concava, vertice pertusa vel astoma, setis longiusculis, rigidis, septatis, fuliginis vestita. Sporulæ typice cylindraceo-fusoideæ, sæpe inæquilaterales, continuæ, hyalinæ, basidiis variis suffultæ. — Genus ulterius explorandum; multæ enim adsunt species sporulis ignotis; nonnullæ perithecio imperfecto vel pezi-zoideo instructæ (et tunc ad *Colletotricha* vel *Excipulas* vergentes), dum plures perithecio perfectissimo utuntur; sporulæ quoque in paucis septatæ dicuntur, quod si exactum, a genere seponendæ species; nec desiderantur formæ (e. g. *V. relicina*) basidiis pleiosporis ornatae.

1. In Dicotyledoneis arboreis.

A) Ramicolæ.

1. **Vermicularia compacta** C. et E. Grev. V. p. 54. — Peritheciis 1317 gregariis, hispidis, atris, distinctis, compactis; sporulis fusiformibus, curvulis, utrinque acutis, nucleatis, demum (spuriæ?) septatis, 20 μ . longis.

Hab. in sarmentis *Vitis viniferæ*, Rubi, et in caulibus *Dahlia*, New Jersey Amer. bor.

2. **Vermicularia crassipila** Karst. Hedw. 1884, p. 61. — Peritheciis 1318 gregariis, cortici innatis, subsphæroideis, atratulis, contextu subcarbonaceo, vertice emergente setis strictis divergentibus, rigidis, obtusis, atris, brevibus, 45-90 \approx 10-15, septatis obsessis, 200 μ . lat.; sporulis fusoideo-bacillaribus, curvulis, hyalinis, 18-27 \approx 3.

Hab. in cortice *Tilia* ulmifoliae in regione aboënsi, Merimasku Fennia.

3. **Vermicularia effusa** Schw. Syn. Amer. bor. n. 1850. — Peritheciis 1319 primum omnino tectis, sparsis, globoso-applanatis, demum confluentibus, epidermide orbatis, nigris, et in maculas late effusis; setis longis divergentibus, non valde nigris, confusis in macula, i. e. undique provenientius.

Hab. rarius ad sarmenta corruptissima Ruborum, Bethlehem Amer. bor.

4. **Vermicularia Staphyleæ** Schw. Syn. Amer. bor. n. 1859. — Peritheciis 1320 quasi applanatis subpezizoideis ex epidermide subcorrugata prorumpentibus; setis aterrimis, flexuosis, longis: perithecia acervata sunt.

Hab. gregatim in epidermide tenerorum ramorum *Staphyleæ* in America bor.

5. **Vermicularia Ephedræ** Dur. et Mont. in Herb., Sacc. in Revue 1321
Mycol. t. XIV. f. 8, Roum. Fungi Gallici n. 1027. — Peritheciis
minutis, integris, setulis atro-fuligineis vestitis; sporulis obclavatis,
20-25 \approx 3,5, basi subrotundatis, sursum attenuatis, obsolete 1-se-
ptatis, dilute olivaceis.
Hab. in ramulis Ephedræ fragilis, Hussein Dey Algeriæ.
— A generis typo nonnihil recedit.
6. **Vermicularia epixyla** Fr. Summa V. S. p. 420, sec. Kickx Fl. Fl. 1322
I. p. 404, nec *Sphæria Vermicularia* Nees, teste Fuckel. — Pe-
ritheciis innatis, superficialibus, minutis nigris, sparsis densis, nu-
merosis, rotundatis vel subelongatis, convexis, setulis concoloribus
sparsis rectisve obsitis, irregulariter pertusis; sporulis oblongis
vel ovoideo-oblongis, acutis.
Hab. in ligno denudato et semi-putrescente Abietis in Sue-
cia, Belgio.
7. **Vermicularia grandis** Pass. et Beltr. F. Sic. n. 30. — Peritheciis 1323
globosis, atris, setis longis concoloribus acuminatis strigosis, apice
rotundatis, sæpe calvis, cellulis minutis, subquadratis, seriatim dis-
positis, contextis; sporulis copiosissimis, sterigmatibus longis, seti-
formibus, hyalinis fultis, acervatim visis dilute olivaceis, singulis
autem hyalinis, fusiformibus, simplicibus, rectis, 15 \approx 3.
Hab. in ramulis aridis suffruticis ignoti, Marianella Siciliæ.
- B) Petioli-fructicolæ.
8. **Vermicularia petiolorum** Schw. Syn. Amer. bor. n. 1853. — Pe- 1324
ritheciis sparsis, tectis aterrimis, parum elevatis, difformibus aut
globoso-conicis, frequentissimis, interdum elongatis, angustatis; se-
tis longissimis divergentibus.
Hab. frequens in dejectis petiolis Æsculorum et Catalpæ,
Bethlehem Amer. bor.
9. **Vermicularia Involucri** Schw. Syn. Amer. bor. n. 1862. — Mini- 1325
ma, atra, plerumque globosa et valde elevata, basi constricta; pe-
ritheciis undique obsitis setis, breviusculis in ambitu, confluentibus,
innatis interiori epidermidi.
Hab. passim in interiori involucri Æsculi cultæ, Bethlehem.
10. **Vermicularia Grossulariæ** Fuck. Symb. Myc. p. 374. — Perithe- 1326
ciis (tuberculis) gregariis, minutis, in macula fusca, fusco-oliva-
ceis, orbicularibus, pilis sterilibus, 3-4-septatis, atris, fertilibus
seu basidiis hyalinis; sporulis curvatis, fusiformibus, 20 \approx 4.

Hab. in fructibus adhuc immaturis Ribis Grossulariæ, quos morte et lapsu afficit, in Rhenogovia.

11. **Vermicularia Amenti** Karst. Hedw. 1884, p. 61. — Peritheciis 1327
subsphæroideis, fusco-pallidis, 200 μ . lat. vertice setulis strictis,
fuscis, 120 \approx 6, obsessis, contextu parenchymatico; sporulis elon-
gatis, curvulis vel rectis, hyalinis, 5-8 \approx 1-1,5.

Hab. in capsulis emortuis Salicis phylicifoliæ ad Mu-
stiala Fenniæ.

12. **Vermicularia rectispora** Cooke in Grevillea. — Sparsis; peri- 1328
theciis minimis, tectis, membranaceis, supra setis rigidis, septatis
ornatis; sporulis linearibus, obtusis, hyalinis, 20 \approx 3.

Hab. in petiolis Meliæ in Carolina inf. Amer. bor.

C) Foliicolæ.

13. **Vermicularia trichella** Fr. in Grev. Scot. Fl. t. 345 et Summa 1329
V. S. p. 420. — Sparsa; peritheciis ovatis, minimis, astomis, nigris,
pilis longissimis divergentibus, vertice obsessis; sporulis fusoideis,
curvulis, utrinque obtuse attenuatis, 16-25 \approx 4-5, hyalino-nebulosis.

Hab. in foliis Hederæ, Piri, Mali, Salicum, Smilacis,
Ari, Evonymi in Suecia, Britannia, Gallia, Germania, Italia,
Belgio. — F. **pomona** Sacc. F. Ven. V. n. 279: sporulis 18-3,7-4.
In foliis Mali in Italia. — F. **Castaneæ**: setis cuspidatis, 110-120
 \approx 8, septatis, fuligineis; sporulis stipitellatis, angustius fusoideis,
25-28 \approx 2 $\frac{1}{2}$ -3, nubilosis. In foliis Castaneæ in Gallia.

14. **Vermicularia carbonacea** B. et C. North Amer. Fungi n. 430^{bis}. 1330
— Peritheciis diu nigerrimis punctiformibus in acervulos minutos;
sporulis arcuate fusiformibus, obsolete triseptatis, 35-40 μ . longis.

Hab. in foliis Magnoliæ grandifloræ in Carolina infer.
Amer. bor. — Perithecia setis basalibus cincta.

15. **Vermicularia albo-maculata** Schw. Syn. Amer. bor. n. 1858. — 1331
Maculis epiphyllis lacteis, latis (v. g. in foliis *Liriodendri* ubi
margine fusco cinctæ sunt maculæ) aut minoribus (in foliis *Populi*)
suborbiculatis, quibus insident perithecia, sparsa, conico-globosa,
aterrima, setis tecta longiusculis, ceterum minutissima, oculo nudo
vix distinguenda, subinnata.

Hab. in variis foliis dejectis v. c. *Liriodendri*, *Populi*,
Smilacis, Bethlehem, Buffalo, Amer. bor.

16. **Vermicularia ambigua** Sacc. Mich. II. p. 271. — Peritheciis (spu- 1332
riis) laxe gregariis, innato-erumpentibus, globoso-depressis, $\frac{1}{3}$ mill.
diam., atris, epidermide denique rupta cinctis; setulis cuspidatis,

90 \approx 5-6, rigidulis, septatis, atro-fuligineis vestitis; basidiis intra setulas dense fasciculatis cylindricis, obtusiusculis, 50 \approx 5, septulatis, pallide fuligineis; sporulis oblongis rectiusculis, 15-16 \approx 6, deorsum subacutatis, granulosis, hyalinis.

Hab. in foliorum partibus arescentibus Cinnamomi dulcis in horto patavino. — Perithecio imperfecto, sporulis rectis etc. mox dignoscitur et ad *Colletotrichum* nutat.

17. **Vermicularia religiosa** Thüm. Contr. Myc. Lus. n. 416. — Peritheciis hypophyllis, gregariis, minimis, subglobosis, brevopilosis, 1333
aterrimis in macula irregulari, arescendo griseola, ferrugineo-cincta; sporulis numerosis, bacillaribus, utrinque obtusatis, subrectis, bi-triseptatis, hyalinis, 5 \approx 1,5.

Hab. in foliis vivis Ficus religiosæ, Coimbra Lusitaniæ in horto botanico (MOLLER).

18. **Vermicularia macrochæta** Desm. 9 Not. pag. 28. — Amphigena 1334
aggregata, atra, maculas nigras efficiens; peritheciis innato-prominulis, minutissimis, pilis paucis (7-5) validis, obtusis, opacis, divergentibus, ad verticem obsitis.

Hab. in foliis coriaceis persistentibus Pruni lusitanicæ in Gallia et Belgio. — Sporulæ nondum observatæ.

19. **Vermicularia epiphylla** Schw. Syn. Amer. bor. n. 1856. — Peritheciis basi innatis, aut substantia folii immersis, demum erumpentibus, sparsis, juvenilibus subconicis, provectori ætate rotundato-applanatis, minutis, aterrimis; setis subrigidis aut flaccidis concoloribus creberrime in toto perithecio sitis; crusta quadam albescente ex folio orta circumdata. 1335

Hab. rarius in aversa pagina foliorum putridorum, Bethlehem Americæ bor.

II. In Dicotyledoneis herbaceis.

A) Caulicolæ.

20. **Vermicularia Dematium** (Pers.) Fr. Summa V. S. p. 420, *Sphæria Dematium* Pers. Syn. p. 88. — Peritheciis (genuinis?) erumpenti-superficialibus, 80-120 μ . diam., conicis, dein depressis, astomis, atris, hispidulis, setulis rigidis, atris apice pallescentibus, parce septulatis, 150-200 \approx 5, vestitis; sporulis cylindræo-elongatis, 20 \approx 4-5, utrinque rotundatis atque lateraliter acutato-angulatis, granuloso-farctis, hyalinis. 1336

Hab. in caulibus herbarum fere omnium, rarius petiolis folisque e. g. Heraclei, Chærophylli, Conii, Angelicæ, So-

lani, Phytolacæ, Clematidis, Chenopodii, Phlogis, Valerianæ, Loniceræ, Acerum, Salicum etc. etc. in Suecia, Britannia, Italia, Gallia, Germania, Belgio, Sibiria, America bor. et austr. — Var. **macrospora** Sacc. Mich.: sporulis curvo-fusoideis, $30 \approx 4$, pluriguttulatis, hyalinis, basidiis teretibus, $15 \approx 3$, obtusiusculis suffultis. In petiolis *Æsculi Paviæ*, Toulouse Galliæ. — Var. **samaricola** Sacc. Mich.: peritheciis solito majoribus; sporulis $20-22 \approx 3\frac{1}{2}$, pluriguttulatis, hyalinis. In samaris (exclusis alis) *Fraxini* in Gallia. — An in hac affinibusque speciebus verum perithecium adsit vel (ut cl. Fuckel mavult) merum tuberculum stromaticum exosporum, difficile eruitur, num pro varia ætate unum alterumque forte observetur.

21. **Vermicularia herbarum** West. Exs. n. 393, Kickx Fl. Flandr. I. 1337 p. 405, *Verm. Dianthi* West. sec. Kickx l. c. — Peritheciis laxiuscule gregariis, erumpenti-superficialibus, globoso-depressis, $\frac{1}{2}$ mill. diam., nigris, setulis crebris rigidulis, inæqualibus, fuscis vestitis; sporulis cylindraceis, subrectis, utrinque obtuse rotundatis, $20-22 \approx 3-4$, granulosis, hyalinis. (Sec. West.: sporulis cylindraceis vel clavulatis, utrinque obtusiusculis vel acutiusculis et subinde lenissime curvulis).

Hab. in caulibus et foliis putrescentibus *Solani tuberosi*, *Dianthi barbati*, *superbi* et *sinensis*. *Sedi*, *Erythrinæ Cristæ-galli*, *Yuccæ gloriosæ* in Belgio, Gallia, Africa austr. — A *Verm. Dematio* Fr., cui habitu affinis, differt sporulis rectis, obtusisque, nec falcatis. Longius distat a *Verm. atramentaria* B. et Br. (? = *Verm. maculanti* [Link] Desm.) ob perithecia majora et laxè sparsa.

22. **Vermicularia Geranii** West. Exs. n. 1239, Kickx Fl. crypt. Fl. 1338 I. p. 404. — Peritheciis innatis, minutis, nigris, sparsis, numerosis, ovalibus, oblongis vel elongatis, setulis concoloribus, sparsis, rectis obsitis, denique apice pertusis; sporulis elongato-oblongis vel ovali-elongatis acutis, rectis vel leniter curvatis, $10 \approx 2,5$.

Hab. in caulibus siccis *Geranii dissecti* in Belgio.

23. **Vermicularia polytricha** Cooke Grev. XII. p. 24. — Erumpens, 1339 cupuliformis, strigosa, atra; setis dense congestis, erectis, rigidis, subulatis, glabris, atrofuscis; sporulis lanceolatis, lunatis, nucleatis, hyalinis, $30 \approx 4$.

Hab. in caulibus *Leguminosæ?* (*Lima bean*) in Carolina australi.

24. **Vermicularia uncinata** B. et C. North Amer. Fungi n. 431. — 1340

Peritheciis distinctis, sparsis, hispidis; sporulis magnis hamatis, a basi attenuatis, 60 μ . longis, distincte tunicatis.

Hab. in caulibus Desmodii nudiflori in Amer. bor.

25. **Vermicularia truncata** Schw. Syn. Amer. bor. n. 1865. — Peri- 1341
theeciis lineam vix excedentibus, nigris (in leguminibus majoribus), adnatis, confertis, hemisphæricis, horizontaliter truncatis in majoribus; in minoribus irregulariter conico-truncatis, rugulosis; setis filiformibus præsertim truncaturam occupantibus, divergentibus, longioribus, brevioribus immixtis; sæpe setæ caducæ sunt, ita ut perithecium orbetur.

Hab. in caulibus, sarmentis ac leguminibus Phaseolorum in hortis frequens, Bethlehem Amer. bor.

26. **Vermicularia Eryngii** (Corda) Fuck. Symb. p. 374, *Excipula E-* 1342
ryngii Corda Icon. Fung. I. f. 294. — Peritheciis globoso-conicis depressis, 250-300 μ . diam., setulis levibus, 400 \approx 6-6,5, instructis, nigris; sporulis elongato-fusiformibus, hyalinis, 20-22 \approx 3-3,5 basidiis dense stipatis, hyalinis suffultis.

Hab. in caulibus petiolisque Eryngii campestris in Italia bor., Germania, Lusitania.

27. **Vermicularia eupyrena** Sacc. Mich. II. p. 563. — Peritheciis laxe 1343
gregariis, hemisphæricis, $\frac{1}{4}$ - $\frac{1}{3}$ mill. diam., integris, astomis, nigris, setulis cuspidatis, parce septatis, 110-120 \approx 3-5, fuligineis conspersis, contextu perithecii parenchymatico fuligineo; sporulis teretibus, rectiusculis, 20-26 \approx 4-4,5, bi-quadriguttulatis, utrinque subrotundatis, hyalinis; basidiis fasciculatis, bacillaribus, 30 \approx 5, dilute fuligineis, guttulatis.

Hab. in caule denique decorticato emortuo Solani tuberosi, Forni di Zoldo, Ital. bor. (BIZZOZERO). — Perithecia prorsus integra, nec more generis late aperta.

28. **Vermicularia orthospora** Sacc. et Roum. Mich. II. pag. 630. — 1344
Peritheciis erumpenti-superficialibus, globoso-conicis, atris, setis cuspidatis ubique vestitis; sporulis teretiusculis, utrinque subrotundatis, subrectis, 22 \approx 4, continuis, hyalinis.

Hab. in caule Solani tuberosi in Arduennis (LIBERT).

29. **Vermicularia atramentaria** B. et Br. Ann. N. H. n. 430. — Ef- 1345
fusa, gregaria, atra, maculiformis; peritheciis minutis superne setulis longis rectis, basi vero fibris repentibus, subepidermicis cinctis; sporulis minutis, cylindræis, brevibus, utrinque nucleatis, (plasmate utrinque retracto, Berk.).

Hab. in caulibus Solani tuberosi in Britannia, Italia, Gal-

- lia, Belgio, Germania. — *Verm. maculans* (Link) Fr. Summa V. S. p. 420, Kickx Fl. Fl. I. p. 405, valde affinis est, nisi eadem ac *Verm. atramentaria* B. et Br.
30. **Vermicularia maculans** (Link) Desm. Exs. n. 339, *Exosporium* 1346
maculans Link Sp. plant. Fung. II. p. 123. — Peritheciis innatis, minutis, aggregatis, dein confluentibus et matricem nigrificantibus, rotundatis, applanatis, setulis concoloribus, sparsis, fasciculatis, apicem versus attenuatis, divaricatis obsitis, denique apice hiantibus; sporulis (paucis) elongatis vel oblongis, rectis, subobtusis.
Hab. in caulibus plantarum herbacearum, præcipue Solani tuberosi et Urticæ urentis in Gallia et Belgio.
31. **Vermicularia minuta** (Link) Lib. exs. cent. IV. n. 350, Kickx Fl. 1347
Fl. I. p. 404, *Exosporium minutum* Link Sp. pl. Fung. II. p. 122. — Peritheciis innatis, erumpentibus, minutis, punctiformibus, sparsis, plerumque rotundatis, setulis sparsis, concoloribus, rectis, brevibus obsitis, denique apice poriformi pertusis; nucleo albo; sporulis fusiformibus, leviter curvatis.
Hab. in caulibus herbaceis variis in Suecia, Germania, Belgio, Gallia. — An satis diversa a *Verm. Dematio*?
32. **Vermicularia Chenopodii** West. Bull. Ac. rog. belg. 2, Ser. t. XII, 1348
n. 19, exs. n. 1238. — Peritheciis nigro-brunneis, emersis, rotundatis, minutis, sparsis, innatis, setulis fragilibus, brunneis, brevibus et raris obsitis, ostiolo irregulari; sporulis hyalinis, fusiformibus, leviter curvatis, frequenter medio (spurie?) uniseptatis, $10 \approx 2,5$.
Hab. in caule Chenopodii viridis in Belgio. — Sec. Kickx vix diversa a *Verm. minuta*.
33. **Vermicularia hypodermia** (Link) Fr. Summa p. 420, *Exosporium* 1349
hypodermium Link Sp. pl. Fung. II. p. 121. — Peritheciis oblongis, sæpe confluentibus, epidermide rupta cinctis, atris; setis elongatis, filiformibus, distantibus, atris.
Hab. in caulibus siccis Umbelliferarum in Silesia Germaniæ.
34. **Vermicularia subglabra** C. et Harkn Grev. 1880, p. 6. — Spar- 1350
sa, epidermide nigrificata tecta; peritheciis subapplanatis, aliis glabris, aliis pilis sparsis brevibus cristatis; sporulis lunatis, hyalinis, trinucleatis, 20μ . longis.
Hab. in caulibus Helianthi in California Amer. bor.
35. **Vermicularia venturioidea** C. et Ell. in Grevillea. — Gregaria; 1351
peritheciis primum tectis, demum detectis, subglobosis, brunneis, supra pilis atris, rigidis ornatis; sporulis fusiformibus, curvatis, hyalinis, nucleatis, $30 \approx 3,5$.

Hab. in caulibus *Lactucæ elongatæ*, New Jersey Americæ borealis.

36. **Vermicularia phyllostictoidea** Speg. F. Argent. Pug. IV. n. 281. 1352

— Maculis parvulis, 0,5–1 mill. diam., amphigenis, determinatis, candidis, areola latiuscula fulvo-rufescenti cinctis; peritheciis epiphyllis, paucis centralibus, minutis, 70–80 μ . diam., hemisphæricis erumpentibus, contextu parenchymatico, olivaceo-fuligineo, ostiolo lato, impresso pertusis, setulis nonnullis rigidulis, atris, erectis, 30–70 = 4–5, basi non vel vix incrassatis coronatis; sporulis cylindraceo-elongatis, utrinque lateraliter rotundato-acutatis, 16–17 = 3, granuloso-farctis, hyalinis.

Hab. ad folia viva *Solidaginis linearifoliæ* in herbosis prope Pueblo Lavallo Argentinae.

37. **Vermicularia Arctii** Schw. Syn. Amer. bor. n. 1860. — Sparsa 1353

vel aggregata, epidermide innata; peritheciis polymorphis atris, semper applanatis; setis densissime longis, immixtis brevibus, undique divergentibus.

Hab. rarius in caulibus *Arctii Lappæ*, Bethlehem Am. bor.

38. **Vermicularia Silphii** Schw. Syn. Amer. bor. n. 1851. — Perithe- 1354

ciis oblongis subrotundisve, obtusis, valde applanatis; confluentibus, aggregatis in macula expallente, nigris, tectis; setis frequentibus, brevibus, atris, prorumpentibus ex epidermide.

Hab. frequens in caulibus *Silphii culti* in horto Nazareth Americæ bor.

39. **Vermicularia Balsamitæ** Schw. Syn. Amer. bor. n. 1852. — Pe- 1355

ritheciis innatis rotundatis, parum elevatis, truncato-applanatis, aterrimis, interdum difformibus; setis breviusculis concoloribus, plerumque sitis quasi in margine truncaturæ nec alibi.

Hab. rarius in caulibus *Impatientis Balsamitæ*, maculas formans, Bethlehem Amer. bor.

40. **Vermicularia Polygoni-virginici** Schw. Syn. Amer. bor. n. 1848. 1356

— Peritheciis sparsis, innatis, nigrosplendentibus vix confluentibus, utrinque arcte acuminatis, centro ex basi latiusculo, valde elevato-conico; setis brevibus in apice collectis.

Hab. in caulibus *Polygoni virginici*, Bethlehem Am. bor.

41. **Vermicularia ovata** Schw. Syn. Amer. bor. n. 1863. — Perithe- 1357

ciis aggregatis, aterrimis, primum erumpentibus, demum superficialibus, majusculis, ovatis, applanato-truncatis; setis filiformibus crebris divergentibus et in disco subpezizoideo truncaturæ frequentibus. Refert primo obtutu pezizulam nigram.

Hab. in caulibus plantarum in hortis Nazareth et in caulibus *Ruellia* strepentis in Pensylvania.

42. **Vermicularia Gerardia** Schw. Syn. Amer. bor. n. 1857. — Ater- 1358
rima, irregularis; peritheciis primum globoso-diformibus, parum elevatis, demum longitudinaliter effusis; setis inæqualibus undique divergentibus, interdum longissimis, rigidis, pulvere quasi adspersis.

Hab. in exsoletis stipitibus *Gerardia* quercifoliae, Bethlehem Americæ bor.

43. **Vermicularia Ipomæarum** Schw. Syn. Amer. bor. n. 1845. — Pe- 1359
ritheciis sparsis, globosis, majusculis, nigris absque nitore, ex epidermide erumpentibus, demum disco truncato; setis in apice truncato, densis, subcinerescentibus, altitudinem perithecii æquantibus.

Hab. frequens in caulibus *Ipomææ* coccineæ, purpureæ etc. Bethlehem Amer. bor.

44. **Vermicularia angustata** Schw. Syn. Amer. bor. n. 1849. — Pe- 1360
ritheciis aggregatis in maculas nigras, angustato-elongatis, confluentibus, epidermide omnino tectis; setis solummodo per rimulas epidermidis prorumpentibus, longiusculis nigris rectis, demum divergentibus.

Hab. in tenerrimis ramulis *Catalpæ* frigore emortuis, Bethlehem Amer. bor.

45. **Vermicularia scandentium** Schw. Syn. Amer. bor. n. 1864. — 1361
Peritheciis minutissimis, atro-nitidis, prorumpentibus, plerumque longitudinaliter compressis, tamen utrinque attenuatis aut acuminatis, juniori ætate nudis, in ambitu sæpe fuscescentibus; demum setis parcis filiformibus divergentibus, in cacumine tantum sitis coronata.

Hab. in caulibus scandentibus v. c. *Galii Aparines*, Bethlehem Amer. bor. — «Sed vero *Galium Aparine* vix scandit».

46. **Vermicularia subeffigurata** Schw. Syn. Amer. bor. n. 1843. — 1362
Primum tecta sub tenera epidermide et more *Sphæriarum* cum ea assurgens; peritheciis majusculis, quamquam punctiformibus, sparsis; demum denudata, multo major evadit; peritheciis quodammodo in plagis effiguratis, colore aterrimo insignibus collectis, subelevatis, apice applanatis, numerosis, interdum late confluentibus; setis inæqualibus, aterrimis, æquantibus altitudine perithecium, rectis, præsertim in apice conspicuis; plagæ occurrunt biunciales, semiunciam latæ, distinctæ in ambitu filis basilaribus dothidineis radiantibus.

Hab. frequens in variis caulibus Bethlehem Amer. bor., mire

varians. — Var. **scapicola**: frequens in scapis *Yuccæ* filamentosæ hinc quasi reticulatis: fere semper simplex et sphæriomorpha. — Var. **dianthicola**: vulgatissima in caulibus *Dianthi sinensis* et aliorum distincta colore aterrimo et magnitudine insigni peritheciolorum. — Var. **Impatientis**: in caule *Impatientis fulvæ*. — Var. **Helianthi**: versus radicem in caulibus maximis *Helianthi* annui var. giganteæ.

47. **Vermicularia ovata** Schw. Syn. Amer. bor. n. 1863. — Peritheciis aggregatis, aterrimis, primum erumpentibus, demum superficialibus, majusculis, ovatis, applanato-truncatis, setis filiformibus crebris divergentibus et in disco subpezizoideo truncaturæ frequentibus. Refert primo obtutu pezizulam nigram.

Hab. in caulibus plantarum ignotarum in hortis Nazareth Americæ borealis.

B) Foliicolæ.

48. **Vermicularia coptina** Peck in Rep. on the St. Mus. N. York. — Peritheciis minutis, leniter prominulis, nigris, vertice setis divergentibus, 1-2-septatis coronatis; sporulis curvulis, utrinque acutis, hyalinis, 20 \approx 2,5-3.

Hab. in foliis emortuis vel subviviis *Coptidis trifoliæ*, Buffalo, Sandlake, Sandy Creek Amer. bor.

49. **Vermicularia punctiformis** Niessl. Hedw. 1881, p. 46. — Peritheciis punctiformibus, atris, setulosis; sporulis oblongis, subrectis, medio (spurie?) septatis, subhyalinis, 12 \approx 3-4.

Hab. in foliis *Oxalidis strictæ* et *corniculatæ* in horto botanico Calcutta Indiæ. — An huc spectet *Verm. punctiformis* Fr. Summa p. 420, nullibi descripta, omnino latet.

50. **Vermicularia Siphonis** Thüm. Fung. Litor. n. 155, tab. I. fig. 2. — Peritheciis epiphyllis, punctiformibus, gregariis, prominulis, minutis, atris; sporulis plus minusve cylindræis, quinque sexnucleatis, utrinque rotundatis, simplicibus, hyalinis, 16 \approx 4.

Hab. ad folia arida *Aristolochiæ Siphonis*, Gorizia Italiæ bor.

51. **Vermicularia Mercurialis** West. 5. Not. pag. 24. — Peritheciis amphigenis, minutissimis, rotundatis, nigris, sparsis, innatis, pilis rigidis divergentibus, 30-40 μ . longis obsitis; ostiolo irregulari; sporulis hyalinis, cylindricis, apicibus rotundatis, rectis, 7,5 \approx 2, quandoque spurie 1-septatis.

Hab. in foliis *Mercurialis perennis* circa Mons in Belgio.

C) Fructicolæ.

52. **Vermicularia Wallrothii** Sacc. Fungi Veneti novi vel critici Ser. V. 1368 p. 199, *Fusarium Chætomium* Wallr. Flor. Cr. Germ. II. p. 242. — Peritheciis (genuinis?) subglobosis obtusis, subsuperficialibus, nigris; setis cuspidatis, 150-200 \approx 6-7, atro-brunneis (ita ut septa ægre conspiciantur), apice hyalinis obvallatis; sporulis copiosissimis, falcatis, utrinque acutis, 25-28 \approx 3-3½, granuloso-farctis, hyalinis.

Hab. in epicarpio Cucurbitæ lagenariæ putri in Germania; Selva et Padova Italiæ bor.

53. **Vermicularia Cucurbitæ** Cooke Hedw. 1878, p. 38, Grev. t. 99, 1369 fig. 10. — Peritheciis globosis, membranaceis, gregariis, hinc illinc circinatis, pilis rigidis brunneis obsitis; sporulis aliis linearibus, minutis, 15 \approx 3, aliis (?) lanceolatis, acuminatis, triseptatis, hyalinis, 50 \approx 5.

Hab. in fructibus Cucurbitæ, Aiken in Carolina inf. Am. bor.

III. In Monocotyledoneis.

54. **Vermicularia Colchici** Fuck. Symb. p. 111, et 374. — Peritheciis 1370 laxè gregariis, punctiformibus, ovato-conicis vel depressis, atro-nitidis, vertice brevissime parce penicillatis; sporulis fusiformibus, curvatis, uniseptatis, hyalinis.

Hab. in foliis languidis Colchici autumnalis in Rhénogovia. — Forma **Bromeliæ**: in foliis ejusdem in Gallia.

55. **Vermicularia Peckii** Sacc. *Verm. concentrica* Peck et Cooke 1371 Rep. on the St. Mus. N. York, non Lév. — Peritheciis minutis, nigris, setulis rectis, rigidis, conspersis, in maculis arescentibus, subcircularibus concentricè dispositis; sporulis oblongis, leniter curvulis, utrinque acutis, 20-25 μ . longis.

Hab. in foliis vivis Trillii erythrocarpi, Pine Valley Amer. bor. (CLINTON). — Folia demum ad maculas perforantur. — Var. **Violæ rotundifoliæ**: peritheciis inordinate sparsis, æque phyllogenis. In America boreali.

56. **Vermicularia concentrica** Lév. Ann. Sc. Nat. 1845, pag. 66. — 1372 Gregaria; peritheciis minimis, setosis, nigris, in series concentricas ordinatis, intus albis; sporulis cylindræis, continuis, hyalinis.

Hab. in foliis Dracænæ umbraculiferæ in insula Mascaren.

57. **Vermicularia Liliaceorum** Schw. Syn. Amer. bor. n. 1844. — 1373 Peritheciis plerumque sparsis, primum tectis, innatis, atro-splendenti-

bus, subrotundis vel ellipticis, rarius confluentibus; centro elevato, coronato setis longis, filiformibus undique divergentibus; ceterum perithecium nudum; fibrillis basilaribus radiantibus.

Hab. frequens in caulibus Hemerocallidis, Allii et aliarum Liliacearum, Bethlehem Amer. bor.

58. **Vermicularia Liliacearum** West. Fl. Bat. Fung. II. p. 113. — 1374

Peritheciis innatis, minutis, sparsis, nitidis, rotundatis vel ovalibus, convexis, pilis tenuibus obsitis, dein vertice nudo poriformi apertis; sporulis cylindricis, utrinque attenuatis, hyalinis, plus vel minus curvatis, $20 \approx 5$.

Hab. in caulibus emortuis Scillæ nutantis, Ornithogali pyrenaici, Triglochinis, Gladioli, Asphodeli, nec non in scapis Amaryllidis Belladonnæ, Iridis, Convallariæ in Gallia, Italia, Belgio, Germania. — Verisimiliter non diversa a *Verm. Liliaceorum* Schw. Subinde perithecia vere obsoleta, et tunc potius *Calleotrichum*.

59. **Vermicularia Schœnoprasi** Auersw. et Fuck. Symb. p. 110, Sacc. 1375

Mich. II. p. 631. — Peritheciis gregariis, erumpentibus, minutis, aterrimis, obtuse conicis, vertice pilis sparsis, fuliginis, $90-100 \approx 7-8$; sporulis tereti-fusoideis, leniter curvis, $25-28 \approx 3-4$, continuis, hyalinis, stipitellatis.

Hab. in foliis squamisque bulborum Allii Schœnoprasi in Germania et Gallia. — Sporulæ, teste Fuckel, septatæ, quales ipse non vidi.

60. **Vermicularia circinans** Berk. Gard. Chron. 1851, p. 595. — Ma. 1376

culis orbicularibus; peritheciis concentricè dispositis, mycelio radiante articulato hyalino impositis, minutissimis, setis rigidis, longis ornatis; sporulis oblongis, leniter curvis, utrinque obtuse attenuatis, 2-pluri-nucleatis, hyalinis.

Hab. in scapis, foliis bulborumque squamis Allii Cæpæ in Britannia, Italia, Pennsylvania.

61. **Vermicularia oblonga** Desm. II Not. p. 363. — Peritheciis inna- 1377

tis, sparsis, numerosis, minutis, atris, subnitidis, ovatis v. oblongo-lanciformibus usque 1 mill. long., apice pertusis; setis fasciculatis, concoloribus tectis; sporulis curvatis, oblongis, utrinque acutis, subfusiformibus, $16-17 \mu$. longis.

Hab. in caulibus siccis Tami communis in Gallia.

62. **Vermicularia acuminata** Schw. Syn. Amer. bor. n. 1846. — Pe- 1378

ritheciis sparsis, epidermide tectis, utrinque acuminatis, ellipticis,

centro elevato, nigro-nitentibus; setis paucis longis, subrectis, in apice sitis, inæqualibus nigris: rarius confluunt.

Hab. in foliis et scapis Iridis virginicæ, Bethlehem Americæ bor.

63. **Vermicularia Polygonati** Schw. Syn. Amer. bor. n. 1847. — Peritheciis e globoso-conicis, manifestim truncatis, nigris, vix nitentibus, sparsis, innatis, demum subliberis; setis in truncatura sparsis, erectis, rigidis, filiformibus. 1379

Hab. passim in corruptissimis caulibus Polygonati, Bethlehem Americæ bor.

64. **Vermicularia relicina** Fr. Summa V. S. p. 420 (ut opinor), Sacc. Mich. II. p. 270, *Sphæria relicina* Fr. S. M. II. p. 505. — Peritheciis sparsis, globoso-depressis, nigris; setis rigidulis, atro-fulgineis, obsolete septulatis, 200-300 \approx 7-10, quandoque sursum bifidis vestitis; sporulis tereti-arcuatis, utrinque obtusiusculis, 10 \approx 1½, hyalinis, denticulis lateralibus basidorum bacillarum, 80-90 \approx 1½, hyalinorum hærentibus. 1380

Hab. in culmis putridis Zæe Maydis et aliarum Graminearum in Suecia, Italia boreali et Germania. — A generis typo ob fabricam basidorum alienam non parum recedit.

65. **Vermicularia culmifraga** Fr. Summa V. S. p. 420. — Minuta, difformis, erumpens, setis erectis, confertis, septatis obsessa; sporulis fusoides, septatis (?), *Verm. relicinæ* duplo majoribus. 1381

Hab. in culmis in Suecia.

66. **Vermicularia denudata** Schw. Syn. Amer. bor. n. 1855. — Peritheciis sparsis, atris, maximis pro ratione culmi teneri, punctiformibus, rotundatis, innatis sed demum erumpentibus, satis elevatis, subtruncatis, rugosis; setis brevibus, deciduis (quod singulare). 1382

Hab. in culmis et foliis Poarum etc., Bethlehem Amer. bor.

67. **Vermicularia Melicæ** Fuck. Symb. Myc. App. II. p. 81. — Peritheciis in maculis decoloratis, fusco-limitatis, demum in foliis aridis lineari-dispositis sparsisve, punctiformibus, nigris, pilis strigosis, simplicibus, concoloribus, 100 μ . long. obsitis; sporidiis fusiformibus, curvatis, utrinque acuminatis, 1-septatis, hyalinis, 26 \approx 4-5. 1383

Hab. in foliis vivis siccisque Melicæ unifloræ in Rhenogovia.

68. **Vermicularia punctans** Schw. Syn. Amer. bor. n. 1854. — Peritheciis sparsis, innatis, numquam confluentibus, in pagina superiore folii pezizoideis; setis in inferiore pagina conspicuis, brevibus, sparsis, atris, densis, in perithecio punctiformi, rotundo-applanato aut orbiculato. 1384

Hab. rarius in foliis *Andropogonis avenacei*, Bethlehem Americæ bor.

69. **Vermicularia graminicola** West. Bull. Ac. roy. belg. Ser. 2. t. XII. 1385
n. 7. — Peritheciis innatis, minutissimis, sparsis, brunneis, rotundatis, pilis sparsis, brunneis obsitis; sporulis hyalinis, fusiformibus, rectis vel leviter curvis, utrinque attenuatis, 2-3-4-guttulatis, $30 \approx 5$.

Hab. in foliis *Poæ sudeticæ* in prov. Luxembourg (CREFIN).

70. **Vermicularia culmigena** Desm. II Not. p. 363, Mich. II. p. 98. 1386
— Peritheciis nigris, minutissimis, innatis, in lineas ovato-oblongas longitudinaliter parallele seriatis; setulis epidermidem perforantibus brevibus; sporulis cylindræis, utrinque obtuse attenuatis, plus vel minus curvatis, 9-11 \approx 1,5-2, pluriguttulatis, hyalinis.

Hab. in foliis graminum ex. gr. *Dactylidis*, *Phlei* etc. in Belgio, Gallia, Pennsylvania.

IV. In Acotyledoneis.

71. **Vermicularia filicina** Schw. Syn. Amer. bor. n. 1861. — Peri- 1387
theeciis aggregatis, frequenter in macula rubescenti aut expallenti, applanatis, ovalibus, tectis, nigris, prorumpentibus centro elevato; setis brevibus aut longiusculis, fusco-nigris, subsparis in apice applanato; sæpissime inveniuntur perithecia setis omnino orbata.

Hab. ad caudices *Osmundæ* et *Onocleæ* exoletos, Bethlehem Amer. bor.

72. **Vermicularia thecicola** Schw. Syn. Amer. bor. n. 1842. — Pe- 1388
ritheciis minutis difformibus, interdum longitudinaliter confluentibus, subnitentibus, innatis, aterrimis; setis longiusculis aterrimis, demum densis, sed longitudine inæquali, longioribus divergentibus; peritheciis apice concaviusculis.

Hab. rarissima species in thecis exoletis *Dicrani scoparii*, Salem Amer. bor.

V. Species indescrupta.

73. **Vermicularia protracta** Fr. Summa Veg. Scand. p. 420. — Ad 1389
sarmenta *Periclymeni* in Suecia.

DOTHIORELLA Sacc. Mich. II. p. 5, (Etym. a *Dothiora*, cui analogum genus), *Dothiora* Berk. Outl. p. 316, non Fuck., *Dothiopsis* Karst p. p. — Perithecia erumpentia in stromate basilari botryose aggregata, vel subinde stromate pulvinato immersa, globulosa, plus

minus papillata, coriaceo-membranacea. Sporulæ ovoideæ vel oblongæ, continuæ, hyalinæ, sæpius stipitellatæ. — Habitus *Botryosphæricæ*, cujus spermogonia habenda sunt. *Dothiora pyrenophora* Berk. et *sphærioides* Berk., sec. Cooke et Capron, *Botryodiplodiam* spectant.

I. *Species minores.*

1. **Dothiorella gregaria** Sacc. Mich. II. p. 343, *Doth. Berengeriana* 1390
Sacc. in Rev. Mycol. 1880, p. 190, ex errore, nec Mich. II. p. 271.
— Peritheciis subcutaneo-erumpentibus, in acervulos hinc inde aggregatis vel gregariis, intus pallidis; sporulis oblongo-fusoideis, 18-22 = 6-6½, nubiosis, hyalinis, basidiis acicularibus, 25-30 = 3, suffultis.
Hab. in ramis corticatis Populi canadensis, Corni, Salicis etc. in Gallia et Italia. — Forte pycnidium *Physalosporæ gregariæ* Sacc.
2. **Dothiorella Ribis** (Fuck.) Sacc. *Podosporium Ribis* Fuck. Symb. 1391
Myc. p. 205, t. I. f. 27, *Diaporthes Strumellæ* status spermog. — Peritheciis 1-6, aggregatis, in stromate nidulantibus, seminis *Papaveris* magnitudine, globosis, perforatis, atris, semper tectis, pustulas valde prominulas formantibus, demum evacuatis; sporulis pedicellatis, dein liberis, ovato-oblongis, sæpe curvatis, simplicibus, 30 = 14, hyalinis, ut massa candida expulsis.
Hab. in ramulis exsiccatis Ribis nigri, Grossulariæ, rubri, alpini, floridi in Germania.
3. **Dothiorella fraxinea** Sacc. et Roum. Reliq. Lib. IV. n. 90. — Pe- 1392
ritheciis cæspitose-erumpentibus globulosis, ¼ mill. diam., vix papillatis, atris; nucleo albido-griseo; sporulis oblongo-ellipsoideis, utrinque obtusiusculis, 12 = 5, hyalinis; basidiis non visis.
Hab. in cortice Fraxini in Arduennis (LIBERT). — Forte huc spectat *Sphæropsis Fraxini* Lamb. Fl. Myc. Belg. II., quæ lecta est in ramis Fraxini prope Liege Belgii.
4. **Dothiorella Liriodendri** (Cooke) Sacc. Cfr. Syll. I. p. 465. — Pe- 1393
ritheciis in stromata applanata rimose erumpentia dense aggregatis, albo-farctis, vix papillatis; sporulis oblongo-fusoideis, 30 = 5, granuloso-hyalinis, breve stipitatis.
Hab. in cortice Liriodendri, Aiken in Carolina inf. Americæ bor.
5. **Dothiorella Betulæ** (Preuss) Sacc. *Sphærocista Betulæ* Pr. Fungi 1394
Hoyersw. n. 44. — Gregaria erumpens; peritheciis corneis, supra

- incrassatis, atris; ostiolo perforato; nucleo albo, mucoso; cirro albo; basidiis filiformibus, albis; sporulis elongatis, albis, continuis.
Hab. in cortice Betulæ, Hoyerswerda.
6. **Dothiorella populnea** Thüm. Pilzfl. Sibir. n. 791. — Peritheciis 1395
 botryose bi-triaggregatis, sparsis, globulosis, erumpentibus v. exsertis, fere liberis, submagnis, durissimis, nigrescentibus; sporulis simplicibus, brevi-cylindraceutis, utrinque rotundato-truncatis, enucleatis, hyalinis, $3,5 \approx 1,5$, numerosissimis.
Hab. in cortice vetusto Populi Tremulæ prope Minussinsk Sibiriae asiaticæ.
7. **Dothiorella populea** Sacc. Mich. I. p. 358 (sub *Phoma*). — Bo- 1396
 tryosphærioides; peritheciis hinc inde aggregatis, innato-erumpentibus, globulosis, minutis, nigris, vix papillatis; sporulis obovoideis, $10 \approx 7$, apice rotundatis, nubiosis, hyalinis, (basidiis nullis visis).
Hab. in ramis corticatis Populi fastigiatae prope Alençon in Gallia (C. C. GILLET).
8. **Dothiorella excavata** (Preuss) Sacc. *Sphærocista excavata* Preuss 1397
 F. Hoyersw. n. 43. — Pustulis gregariis, minutis, hemisphæricis; peritheciis nigris, pulpa alba; basidiis filiformibus; sporulis minutis, oblongis, utrinque rotundatis, hyalinis, albis.
Hab. in cortice Kerriæ japonicæ, Hoyerswerda.
9. **Dothiorella stromatica** (Preuss) Sacc. *Sphærocista stromatica* Pr. 1398
 F. Hoyersw. n. 37. — Erumpens; stromate elato verruciformi, tumido, diviso-lobato sive composito, corneo, humido subgelatinoso, intus fusco; partibus apice subrotundis levibus, subnitidis; peritheciis ovatis, in apice perforatis; nucleo albido pulposo; cirro albo, expulso; basidiis continuis, ramosis, longis; sporulis oblongis, minutissimis, albis.
Hab. ad ramos Pruni Cerasi transversim insidens, Hoyerswerda.
10. **Dothiorella sorbina** Karst Symb. Myc. Fenn. XV. pag. 154. — 1399
 Peritheciis cortici innatis, erumpentibus, cæspitosis, obovoideis vel rotundatis, sæpe inæqualibus, vertice subinde depressis, astomis, interdum ostiolo papillato donatis, aterrimis, 0,3 mill. diam.; sporulis fusoides-elongatis, rectis, eguttulatis, hyalinis, $3-5 \approx 0,3$.
Hab. in cortice ramorum exsiccatorum Sorbi aucupariæ prope Vasa in Fennia.
11. **Dothiorella multiplex** (Preuss) Sacc. *Sphærocista multiplex* Pr. 1400
 F. Hoyersw. n. 38. — Composita, carnosissima, basi stromati connata, supra in ramos subæquales apice tumidos diffusa; peritheciis ex-

tremis insertis; ostiolo perforato; basidiis longis, filiformibus; sporulis continuis, oblongis, albis; pulpa sporarum in cirros expulsa.

Hab. in cortice Sorbi aucupariæ, Hoyerswerda.

12. **Dothiorella cæspitosa** (Preuss) Sacc. *Sphærocista cæspitosa* Pr. 1401

F. Hoyersw. n. 42. — Erumpens; stromate elato verruciformi, diviso-lobato sive composito, atro, corneo, humido subgelatinoso, intus fusco, seu atro-fusco; partibus apice conicis, levibus, subnitidis, dein collapsis; peritheciis perforatis, ovatis, incanis; nucleo pulposo albedo; cirro longo, albo expulso; basidiis continuis, filiformibus; sporulis oblongis, minutis, albis.

Hab. in cortice Sorbi aucupariæ emortuæ, Hoyerswerda. — « An *Sphæria cæspitosa* Tode? ».

13. **Dothiorella pithyophila** Sacc. et Penz. Mich. II. p. 619. — Cæ- 1402

spitulibus cortice fissis erumpentibus vel in cortice interiore subsuperficialibus, pulvinatis, depressis, 1-2 mill. diam., intus et extus nigricantibus, superficie (e peritheciis densis minutis) verrucosis; sporulis cylindræis, utrinque rotundatis, rectiusculis, 7-10 \approx 2,8, hyalinis; basidiis dense fasciculatis, brevibus, bacillaribus e strato proliferis crassiusculo subalbo oriundis.

Hab. in parte interiore corticis Pinorum, Le Sapey (Isère) Galliæ (Therry). — Videtur forma peculiaris *Fusicocci bacillaris*.

14. **Dothiorella Berengeriana** Sacc. Mich. II. p. 271. — Peritheciis 1403

cæspitosis-aggregatis, vere botryosphæroideis, globoso-applanatis, intus albis, ostioli indistinctis; sporulis cylindræis, utrinque obtusiusculis, rectis vel leniter curvis, 6 \approx 1-2, hyalinis, basidiis filiformibus fasciculatis suffultis.

Hab. in ramis Rhamni Frangulæ, Sophoræ, Castaneæ, Mori, Tiliæ in Italia boreali, Gallia et Germania. — Forma **Syringæ**: acervulis minoribus; sporulis crassioribus, 6-8 \approx 3-4. In Arduennis. — Spermog. videtur *Botryosphæriæ Berengerianæ*.

15. **Dothiorella pyrenophora** (Karst) Sacc. *Dothiora pyrenophora* 1404

Karst Symb. Myc. Fenn. XIII. p. 9 et forte Fr. p. p. — Peritheciis dense pulvinato-cæspitosis, basi stromatica fultis, erumpentibus, globulosis, inæqualibus, intus pallidis; sporulis ovalibus, 3-5 \approx 1, 5-2, hyalinis.

Hab. in ramis Sorbi aucupariæ in tota Fennia et Lapponia. — ***D. Mali** Karst l. c.: sporulis paulo majoribus, 6-10 \approx 3. In ramis Mali, Mustiala. — ***D. Betulæ** Karst l. c.: stromatibus sporulisque, quam in typo, paulo majoribus. In ramis Betulæ ibidem. — ***D. Juniperi** Karst l. c.: stromatibus minoribus; sporulis

ovoideis vel obovato-ellipsoideis, utrinque attenuatis, 4-6 \approx 2-3. In fructibus Juniperi communis ibidem. — ***D. Salicis** Karst l. c.: stromatibus epidermide lacerata tectis, minoribus; sporulis 4-8 \approx 1-3. In ramis Salicis prope Jakobstad et Kola. — « An tota cum formis species satis diversa a mea *D. Berengeriana*? Jam monui *D. pyrenophoram* Berk. esse, sec. Cooke, *Botryodiplodiam* ».

16. **Dothiorella Syringæ** (Karst) Sacc. *Dothiora Syringæ* Karst Hedw. 1405
1884, p. 21. — Stromatibus confertis, seriatim dispositis, nonnumquam subconfluentibus, per corticem erumpentibus, applanatis, forma varia, ut plurimum angulato-rotundatis vel angulato-oblongatis, brevibus, nudis, nigris, siccis admodum duris, latis usque ad 1 mill. diam.; sporulis ovoideis vel ovalibus, simplicibus, hyalinis, 4-6 \approx 3 μ . diam.

Hab. in ramis emortuis Syringæ vulgaris prope Aboam Fennia.

17. **Dothiorella aterrima** (Fuck.) Sacc. Cfr. Syll. I. p. 458. — Stro- 1406
matibus corticalibus, atris, orbicularibus, subplanis, corrugatis, loculis intus albis subglobosis; sporulis oblique fusoides stipitatis, 48 \approx 8, hyalinis.

Hab. in rimis corticis Ulmi campestris in Rhenogovia.

18. **Dothiorella macrospora** (B. et C.) Sacc. *Sphaeropsis macrospora* 1407
B. et C. North Am. F. n. 413. — Peritheciis in massam communem deplanatam congestis; sporulis elongatis subfusiformibus, subinæquilateris v. subclavatis, eguttatis, 25-35 μ . longis.

Hab. in ramis Sambuci canadensis et Coriariæ myrtifoliæ in Pennsylvania, Magnoliæ glaucæ in Alabama.

19. **Dothiorella Placenta** (B. et C.) Sacc. *Sphaeropsis Placenta* B. et 1408
C. Cub. Fungi n. 561. — Stromate placentiformi undulato papilloso; sporulis obovatis hyalinis, 15 μ . longis, sporophoris æquilongis.

Hab. in cortice Aurantiorum in insula Cuba. — Affinis *D. undulatae* sed minor et magis regularis.

20. **Dothiorella Tulasnei** Sacc. Cfr. Tul. Sel. Carp. III. t. XX, f. 1409
16-18. — Stromatibus e basi contracta alte pulvinatis, (ex ostioli prominulis) rugosis, nigro-virentibus, intus pallidioribus; peritheciis copiosis ovoideis, periphericis, intus albis; sporulis exiguis cylindræis, utrinque obtusiusculis, 3,5-5 \approx 1, hyalinis; basidiis filiformibus 16 μ . longis, fasciculato-ramosis.

Hab. in ligno quercino, socio *Chlorosplenio æruginoso*, cu-

jus sec. Tulasne esset spermogonium; sed mihi nimis absonum videtur formam compositam peritheciophoram ad discomycetem simplicem spectare.

21. **Dothiorella advena** Sacc. Mich. II. p. 620. — Peritheciis in cæ- 1410
spites dothideaceos nigros collectis, globulosis, vix papillatis, intus
albis, erumpentibus; sporulis elongato-fusoideis, 50 \approx 8-10, recti-
usculis, nubiosis, hyalinis, basidiis bacillaribus, 30-35 \approx 1 $\frac{1}{2}$, suf-
fultis.

Hab. in ramis corticatis quercinis in Italia, Gallia, Germa-
nia. — Spermogonium *Botryosphæricæ advenæ*.

22. **Dothiorella quercina** (C. et Ell.) Sacc. *Sphæropsis quercina* C. 1411
et Ell. Grev. V. p. 32. — Peritheciis cæspitose-congestis, erum-
pentibus, epidermide cinctis; sporulis ovoideis v. ellipsoideis, gra-
nulosis, majusculis, 20-40 \approx 12-20, crasse pedunculatis.

Hab. in ramis *Quercus* albæ et lutæ, New Jersey Amer.
bor. — Habitus fere *Diatrypes*. — An diversa a *Dothiorella*
advena Sacc.?

23. **Dothiorella glandulosa** (Cooke) Sacc. *Sphæropsis glandulosa* Cooke 1412
Hedw. 1878, p. 38, Grevill. t. 99, f. 9. — Acervulis erumpenti-
bus, diatrypeformibus, multicellulosis, atris, elongato-fissis; spo-
rulis lanceolatis v. clavatis, hyalinis, 30 \approx 6.

Hab. in cortice *Ailanthi glandulosæ*, in Carolina Amer.
borealis (RAVENEL).

24. **Dothiorella lentiformis** (Pr.) Sacc. *Sphærocista lentiformis* Pr. 1413
F. Hoyer. n. 311. — Peritheciis tenuibus, biconvexis, minutis,
subconfertis, papillatis nullis, sub myelostromate elongatis conceptis,
tum ostiolis perforatis; nucleo albo, mucoso; basidiis filiformibus;
sporulis fusiformibus, obtusis, varie magnis, albis, guttulis oleosis
plurimis repletis.

Hab. in lignis exsiccatis, Hoyerswerda.

25. **Dothiorella torulosa** (B. et C.) Sacc. *Sphæropsis torulosa* B. et 1414
C. North Am. Fungi n. 418 (bis). — Peritheciis in pustulas par-
vas mammiformes rugosas congestis, epidermide cinctis; sporulis
ellipticis apiculatis, sporophoris torulosis, 10-13 \approx 9-10.

Hab. in corticibus, New England Amer. bor. (SPRAGUE). — Ba-
sidia apice subinde subtriangula indeque trispora.

26. **Dothiorella undulata** (B. et C.) Sacc. *Sphæropsis undulata* B. et 1415
C. Cub. Fungi n. 560. — Stromate nigro suborbiculari undulato,
apicibus perithecorum papilloso; sporulis obovatis magnis, hyali-
nis, 30-33 μ . longis.

Hab. in corticibus emortuis in Cuba. *Hypocreæ* fere imitatur. — Species homonyma in B. et Br. F. of. Ceyl. n. 789 (in corticibus in insula Ceylon) differre videtur, nam sporulæ ibi describuntur: 14-17 \approx 7-10.

27. **Dothiorella Juniperi** (Fr.) Sacc. *Sphæria Juniperi* Fr. S. M. II. 1416 p. 366 Sacc. Syll. II. pag. 372. *Dothiopsis Juniperi* (Fr.) Karst. Hedw. 1884, pag. 20. — Erumpens, oblonga; peritheciis globosis ostiolisque prominentibus nigris, furfure albo tectis; sporulis cylindræis, utrinque obtusis, rectiusculis, continuis, hyalinis, 12 \approx 2.

Hab. in cortice interiore Juniperi in Suecia, Gallia, Fennia. 1417

28. **Dothiorella pithya** Sacc. F. Ven. Ser. IV. pag. 5. — Peritheciis, stromati pulvinato, 1-2 mill. diam., subimmersis, nucleo albo, contextu botryosphæriaceo; sporulis oblongis, 12 \approx 6-7, rarius 18-20 \approx 6, granulosis, hyalinis, stipitellatis.

Hab. in cortice ramorum Pini Strobi et Abietis in agro tarvisino et patavino Ital. bor.

29. **Dothiorella latitans** (Fr.) Sacc. *Dothiopsis latitans* (Fr.) Karst. 1418 Hedw. 1884, p. 20. *Phyllachora latitans* (Fr.) Sacc. Syll. II. p. 610. — Immersa, epidermide lacerata tecta, stromate fusco-atro, loculis immersis albis; sporulis cylindræis, rectiusculis, utrinque obtusis, 12-13 \approx 2.

Hab. ad folia sicca nigrificata Vaccinii Vitis-idææ in Suecia et Fennia. — An *Fusicoccum*?

30. **Dothiorella? Pinastri** (Fr.) Sacc. *Dothidea Pinastri* Fr. Elench. 1419 II. p. 123. — Erumpens, epidermide lacerata cincta, oblongo-diformis, atra; ostiolis umbilicatis; cellulis difformibus hyalinis; sporulis subcylindricis, rectis, continuis.

Hab. in foliis deciduis Pini silvestris in Suecia et Belgio. — Spermogonium videtur *Phacidii laceri* Fr. — In foliis delapsis exsiccatis in ramulis ad terram locis udis dejectis adhuc persistentibus et stramineo-pallentibus observantur plagæ determinate griseæ et carie quasi fortius corrosæ (non vero circumscriptæ), in quibus per epidermidem fere tegentem erumpunt tubercula minuta, oblongo-diformia, atra, opaca, ex ostiolis in superficie inæqualibus, intus fusco-atris, quibus transversim sectis in conspectum veniat cellulæ forma variæ, nucleo hyalino fuscescente farctæ, magis fluxili, quam in reliquis.

31. **Dothiorella congesta** (Lév.) Sacc. *Sphæropsis congesta* Lév. Ann. 1420 Sc. Nat. p. 62. — Hypophylla erumpens; peritheciis fasciculato-

cæspitosis, elongatis, rugulosis nigris, nucleo albo, ostiolis crassis obtusis, nitidis; sporulis elliptico-oblongis, continuis, hyalinis.

Hab. in foliis Podocarpi in Capite Bonæ Spei Afr. (DREGE),

32. **Dothiorella Euphorbii** Sacc. F. Ven. Ser. IV. p. 5. (*Botryosphæria*). 1421
— Peritheciis cæspitosis v. subsparsis, erumpentibus, nucleo albo, contextu botryosphærico; sporulis cylindræis $10 \approx 1\frac{1}{2}$ rectis, hyalinis, 2-guttulatis, basidiis filiformibus, $18 \approx 1$, aduncis suffultis.

Hab. in caule Euphorbiæ Cacti putrescente in horto botanico patavino.

33. **Dothiorella botrya** Sacc. Mich. II. p. 145. — Peritheciis hinc 1422
inde aggregatis, subcutaneo-erumpentibus, globulosis vix papillatis, nigris, $110-120 \mu$. diam., intus albis; sporulis fusoido-oblongis, utrinque obtusiusculis, $28-32 \approx 6-7$, varie guttulatis hyalinis, basidiis filiformibus dimidio brevioribus suffultis, nec non paraphysibus (?) filiformibus longioribus obvallatis.

Hab. in ramis corticatis Manioth carthagenensis in Carolina austr. Amer. bor. (RAVENEL).

34. **Dothiorella Galegæ** Sacc. F. Ven. Ser. IV. p. 5 (*Botryosphæria*). 1423
— Peritheciis tectis sparsis, nucleo albo, hyphis fuliginis repentibus cinctis, contextu botryosphærico; sporulis fusoidis, hyalinis, $25 \approx 6-8$, initio stipitellatis.

Hab. in caulibus Galegæ officinalis in Ital. bor. — Peraffinis *Doth. gregarie*.

35. **Dothiorella botryosphærioides** Sacc. Mich. I. p. 145. — Peritheciis hinc inde dense aggregatis, globulosis, obtusis, 100μ . diam., subcutaneo-erumpentibus, atris, intus pallidis, contextu luteo-fuligineo, parenchymatico; sporulis ovoideo-oblongis, $8 \approx 3$, minute 2-guttulatis, hyalinis, basidiis brevissimis suffultis.

Hab. in caule Gossypii in Carolina infer. Americæ borealis (RAVENEL).

36. **Dothiorella erumpens** (B. et C.) Sacc. *Sphæropsis scripta* B. et C. Exot. Fungi p. 280 — Erumpens, pulvinata, subcarnosa, 2 mill. cr., nigra, superficie corrugata; peritheciis globosis, brevicollibus, ostiolo obsoleto; sporulis late oblongis, hyalinis, breve stipitatis, 20μ . longis.

Hab. in corticibus e crustis lichenum erumpens, Surinam.

II. *Hydnopsis* Tul. Stromate globuloso, majusculo.

37. **Dothiorella** (*Hydnopsis*) **Eugeniae** Tul. Sel. F. C. III. pag. 26. — 1426

Stromate globoso, avellanam æquante, sæpe rimoso, deformi, intus extusque atro, tuberculis pyramidatis seu tetra-pentagonis (tuberis ad instar) exasperato, intus ad superficiem cavernuloso-locellato venisque albidis ad basim variegato; sporulis ovoideis, hyalinis, utrinque obtusis, 13-15 \approx 5,6-6,4; basidiis e parietibus cavernularum ortis cylindræis, continuis, 15-20 μ . longis.

Hab. in ramulorum gemmis et pedunculis hinc deformatis et abortivis Eugeniæ Bridgesii in Chile, ubi fungus singularis *Pitra* audit. — Species altera *Hydnopsis graminicola* Tulasneo l. c. p, 28, in culmis gramineis in Nova Granada obveniens, stroma præbet globulosum, solidum, pisum æquans, extus aculeolatum et conidiophorum (conidiis sphæricis, aureis, 3,5 μ . diam.), at sporulæ hucusque ignotæ.

RABENHORSTIA Fr. Summa Veg. Scand. p. 410 (Etym. a sollerti meritissimoque cryptogamista germanico L. *Rabenhorst*). *Galeraieta* Preuss F. Hoyer. n. 46. *Spilobolus* Link p. p. — Stroma erumpens globoso-truncatum, intus locellatum, coriaceo-carbonaceum, apice sæpe circumscissum et cum cortice secedens. Sporulæ ovoideo-oblongæ, continuæ, hyalinæ, stipitatæ. — Spermogonium *Hercosporæ*.

1. **Rabenhorstia Tiliæ** Fr. Summa p. 410. *Sphæria Tiliæ* Fr. S. M. 1427 II. p. 485 p. p. *Sphæria subsecreta* Sow. — Stromatibus sparsis, globoso-truncatis, levibus nigris, erumpentibus, intus pluriloculatis pallidioribus, disco emergente, inæquali, crasso truncato nigro; sporulis ellipsoideis, 12-14 \approx 8, nubilosis, hyalinis; basidiis filiformibus fasciculatis, 60 \approx 1½.

Hab. in ramis Tiliæ europææ in Gallia, Britannia, Italia, Germania, Belgio. — Pycnidium *Hercosporæ Tiliæ*.

2. **Rabenhorstia conica** (Pr.) Sacc. *Galeraieta conica* Pr. F. Hoyer. n. 46. — Pustulis minutis, gregariis, conicis, nigris; stromate carnosio, interne albo, centro subcolumelliformi apicem operculatum dejiciente, perithecio simplici, nigro, ostiolo centrali; cirro albo; basidiis minutis, filiformibus, continuis; sporulis subfusiformibus, utrinque rotundatis, subcurvatis, minutis, albis.

Hab. in cortice emortuis Cytisi Laburni in hortis Hoyerwerda.

3. **Rabenhorstia rudis** Fr. Summa p. 410. *Sphæria rudis* Fr. Elench. 1429 II. pag. 98. — Conferta, crusta effusa ambiente nigra; stromatibus conico-hemisphæricis v. breve turriformibus, obtusis, initio

tectis, dein epidermide rupta subcircumscissis, nunc minoribus sub-1-ocularibus, nunc majoribus labyrintho-locellatis, sæpe fusco-villosulis, fuligineo-nigris, nucleo albido-roseo; sporulis subovato-oblongis, utrinque obtusis, 6-8 = 2-3, biguttatis; basidiis filiformibus, 20 μ . longis.

Hab. in ramis Cytisi Laburni in Gallia, Germania, Italia, Britannia. — *Diplodia rudis* Desm. et Kickx penitus diversa est; sed *Phoma rudis* Sacc. forte nil est nisi forma minor sub-1-ocularis.

4. **Rabenhorstia deformis** (Fr.?) Karst. Hedw. 1884, p. 58. — Stro- 1430
matibus gregariis, innatis, sphæroideo-depressis vel pulvinatis, emergentibus, bullas corticales efficientibus; ostiolo erumpente, plus minus elongato, atro, 1-2 μ . lat.; sporulis botuliformibus 4-6 = 1-1,5.

Hab. in libro et sub cortice Piceæ excelsæ prope Wasam Fennia.

Species dubiæ.

5. **Rabenhorstia clandestina** Fr. Summa p. 410. *Sphæria clandestina* 1431
Fr. Cfr. Sylloge II. p. 419.
6. **Rabenhorstia personata** Fr. Summa p. 410. *Sphæria personata* 1432
Fr. Cfr. Sylloge II. p. 418.
7. **Rabenhorstia adpressa** Fr. Summa p. 410 (sine diagnosi). In Sue- 1433
cia boreali.

FUCKELIA Bon. Abhandl. p. 135 (Etym. a præclaro mycologo L. FÜCKEL). — Stromata erumpentia globoso-pulvinata, basi stipitifor-
mi crassa, sed brevi suffulta, solida extus fusca, intus in locellos angulosos copiosos pallidiores (*Tuberis* ad instar) ubique partita. Sporulæ ellipsoideæ, continuæ, hyalinæ, stipitatae.

1. **Fuckelia Ribis** Bon. Abhandl. p. 135. Karst. Myc. Fenn. I. p. 215- 1434
216. — Stromatibus v. conceptaculis subsphæroideis, glabris, fulvo-nigrescentibus, rugosis, solidis, intus in locellos angulosos numerosissimos partitis; sporulis ovoideo-oblongis, 8 = 4, crasse 2-guttatis simulateque 1-septatis, hyalinis.

Hab. in ramis Ribis rubri, nigri et petræi in Germania, Gallia, Fennia. — Est spermogonium *Cenangii ribesii*.

PLACOSPHERIA Sacc. Mich. II. p. 115 (Etym. *plax* tabula, crusta, et *Sphæria*). — Stromata effusa atra epidermide sæpe velata, intus distincte v. obsolete locellata. Sporulæ oblongæ, fusoidæ v. cy-

lindrææ, continuæ, typice stipitellatæ. — Quum nomen Notarianum *Placosphæriæ*, *Euryachoræ* synonymum sit, indeque supervacaneum, ad ejusdem *Euryachoræ* spermogonium designandum limitare propono.

1. **Placosphæria Galii** Sacc. *Mazzantiæ Galii* spermog. Mont. Syll. 1435 p. 246. — Stromate innato, oblongo, convexo, intus albido, extus nigro; loculis 1-5, membranaceis pallidis, ostiolis prominulis; sporulis lineari-oblongis, 8-10 \approx 2-3, hyalinis, rectis, utrinque obtusis.
Hab. in caulibus Galii Molluginis et Aparines in Gallia, Italia, Germania.
2. **Placosphæria Sedi** Sacc. Mich. II. p. 115. — Stromatibus late et vage 1436 effusis piceis, subplanis, epidermide nigrificata velatis, intus crebre minute locellatis; contextu parenchymatico fusco; sporulis bacillari-falcatis, 22-24 \approx 2, utrinque obtusiusculis, pluriguttulatis hyalinis, basidiis brevissimis obtusis suffultis.
Hab. in caulibus Sedi Telephii, Rouen Galliæ (LETENDRE). — Spermogonium *Euryachoræ Sedi* Fuck.
3. **Placosphæria Stellatarum** Sacc. Mich. II. p. 353. — Stromatibus 1437 amphigenis, minutis subcircularibus, $\frac{1}{2}$ mill. diam., nigris, intus plurilocellatis basi hyphulis fuscis vestitis; contextu parenchymatico, fuligineo; sporulis bacillaribus, 30-40 \approx 1 $\frac{1}{2}$ -2, utrinque obtusiusculis, 5-6-guttulatis, hyalinis.
Hab. in foliis nondum emortuis Galii v. Sherardiæ, Saintes Galliæ (BRUNAUD). — *Phyllachora punctiformis* Fuck. longe differt.
4. **Placosphæria Stellaris** (Lib.) Sacc. Mich. II. p. 283. *Euryachora Stellaris* (Lib.) Fuck. — Stromatibus gregariis, folio innatis, circulari-oblongis v. subangulosis, rufo-nigricantibus; sporulis cylindræis, 12-15 \approx 2, subrectis, basidiis teretibus dimidio brevioribus suffultis.
Hab. in foliis caulibusque Dianthi monspessulani, Belluno Italiæ borealis, et Stellaris in Arduennis et Rhenogovia.
5. **Placosphæria Onobrychidis** (DC.) Sacc. Mich. II. p. 283. *Rhytisma* 1439 *Onobrychidis* DC. Mem. Mus. III. p. 324. — Stromatibus folio innatis, amphigenis, applanatis, atris, ambitu oblongis, 8-12 \approx 3-5 mill., intus obscure plurilocularibus (?); sporulis copiosis, gyriniformibus, nempe ovoideis, 8-10 \approx 2-2 $\frac{1}{2}$, hyalinis, deorsum in caudam filiformem (stipitem adhærentem) 15-18 \approx $\frac{1}{2}$ productis.
Hab. in foliis caulibusque Lathyri latifolii in Euganeis Ital. bor., in Gallia et Germania.

6. **Placosphæria aterrima** (Lév.) Sacc. *Ascospora aterrima* Lév. Ann. 1440
sc. nat. 1846, p. 276. — Peritheciis gregariis, globosis, stromate
innato ruguloso, nigro, maculiformi latitantibus; ostiolis obsoletis;
sporulis ovalibus erectis, continuis, pellucidis.
Hab. in foliis arboris ignotæ in Martinica.
7. **Placosphæria ficicola** (Lév.) Sacc. *Ascospora ficicola* Lév. Ann. 1441
sc. nat. 1846, p. 277. — Peritheciis hypophyllis globosis astomis
in stromate effuso nigro maculiformi latitantibus; sporulis elon-
gatis continuis rectis vel curvatis, sæpe fusiformibus.
Hab. in foliis Fici hispidæ in Java insula.
8. **Placosphæria? nitida** (Lév.) Sacc. *Ascospora nitida* Lév. — Stro- 1442
mate oblitterato; peritheciis hypophyllis, sparsis, innatis, prominulis,
levibus, atro-nitidis, ostiolis nullis; sporulis globosis v. ovalibus,
simplicibus, hyalinis.
Hab. in foliis Acaciæ in Abyssinia. — «An potius *Phoma?*»
9. **Placosphæria graminis** Sacc. et Roum. Mich. p. 632 (**Agropyri*). 1443
— Stromatibus oblongis, sæpius hypophyllis, applanatis, subinnatis,
nigris, nitidulis; sporulis oblongis, subfusoideis, 25-28 = 5-6, leni-
ter curvis, 2-3-nucleatis, hyalinis.
Hab. in foliis languidis Agrostidis, Rouen Galliæ (MALBRAN-
CHE). — Forte spermogonium *Phyllachoræ Agrostidis* Fuck. —
***anceps** (*P.? graminis* S. et Roum. Mich. 631). — Stromatibus
subcutaneis effusis, maculiformibus, piceis; nucleis parum distinctis;
sporulis cylindraceo-curvulis, utrinque rotundatis, 20-24 = 4, hya-
linis, denique 2-septatis, vix constrictis, basidiis teretiusculis suf-
fultis. In foliis graminum in Arduennis (LIBERT). — Habitus
Phyllachoræ.
10. **Placosphæria dothideoides** (Mont.) Sacc. *Ascospora? dothideoides* 1444
Mont. Syll. n. 1007. — Stromate minuto, lineari-lanceolato, nigro,
epidermide tecto, $\frac{3}{4}$ mill. long.; peritheciis seu loculis 50-100 μ .
diam., orbicularibus oblongisve longitrorsus biseriatis; nucleis al-
bis; sporulis oblongo-linearibus, hyalinis, biguttulatis, 6-7 μ . long.,
sporophoris brevibus fultis.
Hab. in foliis Phragmitis amphigena apud Montaud-lez-Mi-
ramas Galliæ (CASTAGNE). — Habitus *Phyllachoræ graminis*, sed
multo minor.

APPENDIX

Cliostomum Fr. [*Rhytismella* Karst.] Stroma subcorneum, submultiloculare,
primo clausum, dein rimose dehiscens (An lichen?).

11. **Placosphæria corrugata** (Ach.) Karst. Hedw. 1884, p. 60. *Clio-* 1445

stomum corrugatum (Ach.) Fr. Summa p. 121. *Lecidea corrugata* Ach. Syn. p. 18. — Gregaria, superficialis, rugoso-plicata, planiuscula, interdum subsphæroidea v. depresso-concava, cornea, paucilocularis, atra, conceptaculo rimis pluribus flexuosis dehiscente, fragili, nigra, $\frac{1}{2}$ -2 mill. lat.; sporulis elongatis v. botuliformibus, rectis v. curvulis, 3 \approx 0,5.

Hab. in ligno indurato pineo, alneo, quercino (in thallo lichenum?) in Suecia, Britannia, Gallia, Germania, Italia.

FUSICOCCUM Corda in Sturm Crypt. Fl. f. 52, emend. Sacc. Mich. II. p. 99. (Etym. *fuscus* et *coccum*, quasi sporulæ fusoideæ in cocci formam compactæ). *Dothiopsis* Karst. p. p. — Stroma subcutaneo-erumpens, convexum v. conicum, subcoriaceum, atrum intus plus v. minus distincte pluri-loculare. Sporulæ fusoideæ, continuæ, hyalinæ, plerumque majusculæ et rectæ. — Sub hoc genere, a Corda sat vage definito, *Cytosporæ* species colligo, quæ sporulis majusculis fusoideis utuntur.

1. **Fusicoccum Æsculi** Corda in Sturm Deutsch. Crypt. t. 52, Sacc. 1446 Mich. II. p. 99. — Stromatibus erumpentibus conoideis, fuscis, intus obsolete plurilocularibus; sporulis fusoideis, 23-30 \approx 5, basidiis bacillaribus, 20-30 \approx $1\frac{1}{2}$ -2, suffultis.

Hab. in ramis Hippocastani in Bohemia et Italia bor.

2. **Fusicoccum fibrosum** Sacc. *Diaporthes fibrosum* st. sperm. Sacc. 1447 Syll. I. p. 618. — Stromatibus conicis, erumpentibus, pluricellularibus, cellulis pulpa luteo-fusca fretis; sporulis ellipsoideis, basi acuminatis, continuis, hyalinis, nucleolatis, 11 \approx 5.

Hab. in ramis truncisque exsiccatis Rhamni cathartici in Italia bor. et verisimiliter in Suecia, Britannia, Germania, Belgio, Gallia.

3. **Fusicoccum ornellum** Sacc. Mich. II. p. 99. — Stromatibus conicis, corticulis, innato-erumpentibus, griseis, 2-4-cellularibus; sporulis oblongo-fusoideis, utrinque obtusiusculis, 12-15 \approx $3\frac{1}{2}$ -4, hyalino-faretis, curvulis, basidiis filiformibus, 15-20 \approx $2\frac{1}{2}$, e strato prolifero ochraceo oriundis suffultis, accedentibus paraphysibus bacillaribus, 80 \approx 3.

Hab. in ramis Fraxini Orni in Italia boreali et in Arduennis.

4. **Fusicoccum Schulzeri** Sacc. in Sch. Micr. Slav. n. 33. Schulz. Ill. 1449 fung. Slav. n. 686. — Stromatibus corticalibus tumidulis modice erumpentibus 1 mill. lat.; peritheciis in quaque pustula 1-4, glo-

bulosis in collum breve attenuatis, ostiolo obtuso, 0,1-0,3 mill. cr.; sporulis cylindræis, curvulis, utrinque obtusis, 16-25 = 5, hyalinis, basidiis filiformibus, sesquolongioribus, fasciculatis suffultis.

Hab. in ramis corticatis Rosæ caninæ pr. Vinkovce. — A genere *Fusicocco* sporulis curvulis aliquid recedit.

5. **Fusicoccum viridulum** (Bon.) Sacc. *Polythecium viridulum* Bon. 1450
Bot. Zeit. 1863, p. 203. — Stromatibus e loculis cylindræis subverticalibus compositis, rotundis ovoideisve; sporulis fusiformibus, curvulis, utrinque obtusiusculis, hyalino-viridulis; basidiis ramulosis, brevibus.

Hab. in ramis subvivi Ribis rubri in Guestphalia.

6. **Fusicoccum bacillare** Sacc. et Penz. Sacc. Mich. II. pag. 627. — 1451
Stromatibus gregariis, e basi suboblongis, conicis, innatis, tumidulis, $\frac{3}{4}$ -1 mill. lat., nigris, intus griseis, spurie plurilocularibus disco minuto albo-furfuræo; sporulis tereti-bacillaribus, subrectis, 14-15 = 2, utrinque obtusis, hyalinis; basidiis cylindræis brevibus e basi prolifera, filamentis reticulato-intricatis hyalinis contexta, oriundis. — Var. **dolosa**: stromatibus e situ superficiali disco albo carentibus, hinc habitu a typo diversissimis; ceteris iisdem.

Hab. in cortice interiore Pinorum, Le Sapey (Isère) Galliæ (TERRY).

7. **Fusicoccum Pini** (Pr.) Sacc. *Nemaspora Pini* Preuss F. Hoyersw. 1452
n. 148. — Stromatibus minutis, gregariis; peritheciis compositis, corneis sublentiformibus, nigris; nucleo pulposo caudido; cirro guttuliformi; sporulis oblongis basi attenuato-acuminatis, albis; basidiis continuis.

Hab. in cortice Pini leviori, Hoyerswerda.

8. **Fusicoccum pithyum** Sacc. et Penz. Sacc. Mich. II. p. 626. — Stro- 1453
matibus innato-subsuperficialibus, gregariis, pulvinatis, atris, $\frac{1}{2}$ -1 mill. diam., vertice verruculosis, denique collapsis, intus subfarcitis, griseis, spurie plurilocellatis; sporulis fusoides, curvulis, utrinque acutiusculis, 14-15 = 1,5-2,5, hyalinis; basidiis fasciculatis, acicularibus, sporulas subæquantibus.

Hab. in cortice emortuo relaxato Pinorum, Le Sapey (Isère) Galliæ (TERRY).

9. **Fusicoccum quercinum** Sacc. Mich. II. p. 345. *Cytispora querci-* 1454
na Sacc. Mich. I. p. 261, non West. Spermog. *Diaporthes leiphæmæ* (Fr.) Sacc. — Stromatibus transverse oblongis, innato-erumpentibus, obsolete plurilocularibus, intus sordide roseis; sporulis

cylindræco-fusoideis, 15-16 = 3-3,5, lenissime curvulis, obsolete 2-guttulatis, v. plasmate bipartito, utrinque acutiusculis, hyalinis; basidiis filiformibus paulo brevioribus.

Hab. in cortice quercino, Selva in Italia boreali.

10. **Fusicoccum Hapalocystis** Sacc. *Calosporæ Hapalocystis* pycnidium Fuck. Symb. p. 191. — Stromatibus..... sporulis in stigmatibus filiformibus acrogenis, ovato-oblongis, basin versus attenuatis, continuis, obscure triguttulatis, dilute flavis, 28 = 8. 1455

Hab. in ramis emortuis Platani in Rhenogovia.

11. **Fusicoccum eumorphum** Sacc. Mich. II. p. 99. — Stromatibus in- 1456
nato-erumpentibus, conicis, obtusiusculis, $\frac{3}{4}$ mill. diam., corticulis, carbonaceo-coriaceis, nigris, 2-4-locellatis; sporulis fusoideis, utrinque acutis, sæpius inæquilateralibus, 30-32 = 3 $\frac{1}{2}$ -4, nubiosis, hyalinis.

Hab. in cortice Ulmi (?) pr. Rouen Galliæ (LETENDRE).

12. **Fusicoccum glæosporioides** Sacc. et Roum. Reliq. Lib. IV. n. 97. 1457
— Stromatibus depresso-conicis, subcutaneis, dein erumpentibus atris, intus ceraceis pallidis, spurie locellatis; sporulis oblongo-fusoideis, rectis, hyalinis, 8-10 = 2,5; basidiis non visis.

Hab. in ramis corticatis Betulæ (?) in Arduennis.

13. **Fusicoccum leucostomum** Sacc. *Diaporthes Spinæ* spermog. Fuck. 1458
Symb. pag. 210. — Stromatibus sparsis seriatisve, tectis, demum erumpentibus, atris, majusculis, late perforatis, ostiolo albicante, plurilocularibus, oculis globosis, griseis; sporulis cylindræcis, rectis, utrinque uniguttulatis, hyalinis, 14 = 4.

Hab. in ramis siccis Salicis auritæ in Rhenogovia.

14. **Fusicoccum Lesourdeanum** Sacc. et Roum. Reliq. Lib. IV. p. 95. t. 1459
43, f. 22. — Stromatibus subcutaneis vix erumpentibus, conicis, griseo-atris, intus varie et spurie locellatis; sporulis fusoideis, utrinque obtusiusculis, 30 = 8, hyalinis, rectis; basidiis non visis.

Hab. in ramis corticatis Coryli (ut videtur) in Arduennis.

15. **Fusicoccum cinctum** Sacc. et Roum. Reliq. Lib. IV. n. 94, t. 43, 1460
f. 23. — Stromatibus pulvinatis, sparsis v. laxè gregariis subcutaneis, solo disco ovali plano erumpente, atro-olivaceis, zona olivacea subcutanea cinctis, intus spurie locellatis; sporulis oblongo-teretibus deorsum tenuatis, 14-18 = 4, hyalinis, eguttatis; basidiis bacillaribus dimidio brevioribus.

Hab. in ramis corticatis Castaneæ in Arduennis.

16. **Fusicoccum castaneum** Sacc. *Cytispora castanea* Sacc. Mich. I. 1461
p. 519. — Stromatibus pulvinatis erumpentibus, rufescentibus, in-

tus varie locellatis, pallidioribus; sporulis fusoides, rectis, 6,5-8 \approx 2-2,5, raro longioribus, nempe 10-12 \approx 2-2,5, sæpius biguttulatis, hyalinis; basidiis fasciculatis acicularibus, 7-10 \approx 1,5, hyalinis.

Hab. in ramis corticatis emortuis Castaneæ vescæ in Italia, Gallia, Germania. — Status spermogonicus *Diaporthes castaneæ* (Tul.) Sacc.

17. **Fusicoccum guttulatum** Sacc. et Roum. Reliq. Lib. IV. n. 93, t. 1462
43, f. 24. — Acervulis subcutaneis, vix erumpentibus, pulvinatis intus plurilocellatis atro-olivaceis; sporulis tereti-fusoides, utrinque rotundatis, 14-16 \approx 2,5, hyalinis, 4-guttulatis, rectis; basidiis filiformibus sporulâ dimidio brevioribus.

Hab. in ramis corticatis Fagi in Arduennis (LIBERT).

18. **Fusicoccum galericulatum** (Tul.) Sacc. *Diaporthes galericulatæ* 1463
st. sperm. Syll. I. p. 629. — Stromatibus tuberculatis, erumpentibus, fuscis, intus pallidis multilocellatis; sporulis fusoides 6-10 \approx 3,5-4, hyalinis.

Hab. in ramis corticatis Fagi silvaticæ prope Versailles Galliæ.

19. **Fusicoccum Carpini** Sacc. *Diaporthes Carpini* st. sperm. Syll. I. 1464
608. — Stromatibus demum erumpentibus 1-2 mill. latis, poro centrali plerumque irregulariter fissis apertis, intus cellulis globosis, dense stipatis formatis; sporulis lanceolato-fusiformibus, biguttulatis (uniseptatis?), hyalinis, 12 \approx 3-4.

Hab. in ramis siccis Carpini Betuli in Suecia, Germania, Gallia, Belgio et Italia.

20. **Fusicoccum Kunzeanum** Sacc. Syll. I. p. 607. Reliq. Lib. IV. t. 44, 1465
f. 25. *Diaporthes Kunzeanæ* st. sperm. — Stromatibus subcuticularibus, conoideo-depressis, medio pertusis, e fusione cellularum quasi 1-ocularibus, pulpa lutescenti fætis; sporulis oblongo-fusoides, rectis curvulisve, 10-11 \approx 3, 4-guttulatis (tandem 1-septatis?), sterigmatibus brevissimis fasciculatis, fultis.

Hab. in ramulis Carpini Betuli, Selva, Treviso Ital. bor. et in Arduennis.

21. **Fusicoccum Farlowianum** Sacc. et Roum. Reliq. Lib. IV. n. 98, 1466
t. 43, f. 21. — Stromatibus majusculis, dein superficialibus, irregulariter globosis, usque 2 mill. diam., nigris, intus pluri-locellatis pallidioribus; sporulis fusoides, utrinque acutis, 12-14 \approx 2,3-3, hyalinis; basidiis bacillaribus fasciculatis sub-æquilongis.

Hab. in ligno putri, jam decorticato, in Arduennis.

22. **Fusicoccum coronatum** Karst. Hedw. 1884. p. 21. — Stromati- 1467

bus hypo-raro epiphyllis, sparsis vel confertis, sed epidermidem nigrificatam fissam erumpentibus, depresso-subconoideis, albido-furfuraceis, 5-8 μ . latis; sporulis cylindræis, utrinque rotundatis, 12-14 \approx 2-2,5 μ .

Hab. in foliis putrescentibus Betulæ albæ ad Mustiala in Fennia.

CYTOSPORELLA Sacc. Mich. II. p. 100. (Etym. a *Cytospora* cui analogum genus). — Stroma valseum v. verrucosum innato-erumpens v. subsuperficiale, subcoriaceum, atrum, intus pallidius, plus minusve distincte pluriloculare. Sporulæ globosæ v. ovoideæ, continuæ, subhyalinæ, plerumque minutissimæ. — Est quasi *Cytospora* sporulis globoso-ovoideis.

1. **Cytosporella sycina** Sacc. Mich. II. p. 100. — Stromatibus innato-erumpentibus, corticulis, conicis, $\frac{1}{2}$ mill. diam., intus plurilocellatis, locellis globulosis, nucleo subcarneo; sporulis ovoideis, minutissimis, 2 \approx 1, hyalinis, basidiis bacillaribus, 15 \approx 1 $\frac{1}{2}$, suffultis. 1468

Hab. in ramis Fici Caricæ in Gallia merid. (ROUMEGUÈRE).

2. **Cytosporella Scheidweileri** (West.) Sacc. *C. Scheidweileri* West. Exs. n. 1134 Lamb. Fl. myc. Belg. vol. III. — Pustulis irregularibus, subseriatis, epidermidem bullatim inflantibus, denique lacerantibus; peritheciis globuloso-oblongis; ostiolis brevibus, crassis, inæqualibus, discum colliculosum formantibus; cirris rubro-aurantiacis; sporulis ovoideis, obtusis, angustis. 1469

Hab. in trunco emortuo Rhois, Courtrai Belgii.

3. **Cytosporella Æsculi** (West.) Sacc. *C. Æsculi* West. Exs. n. 721. — Peritheciis atris, minutis, stromate griseo immersis pustulasque 1-4 mill. diam. formantibus, irregulariter globosis, epidermide lacerata cinctis, discis pluribus minutis circa centram albo-pruinosis dispositis; sporulis perexiguis, ovoideis, copiosissimis; cirro incarnato, dein fuscescente. 1470

Hab. in trunco emortuo Æsculi, Courtrai Belgii.

4. **Cytosporella pisiformis** (Fr.) Sacc. *Cytispora pisiformis* Fr. in Duby Bot. Gall. II. p. 725. — Peritheciis numerosissimis, atris, difformibus irregulariter coacervatis, in conceptaculo erumpente atrofusco globoso inclusis; disco minuto, subconcolore, plano; ostiolo centrali nigro; sporulis numerosissimis, in cirrum flavidum protrusis, globulosis, flavidis, 3-4 μ . diam. 1471

Hab. in ramulis quercinis in mont. Vogesis (MOUGEOT). — Spermogonium *Melanopsis mirabilis*, teste Fuck.

5. **Cytospora sphærosperma** (West.) Sacc. *Cytispora sphærosperma* West. Bull. Soc. Belg. II. t. XV. n. 7. — Stromate subrotundo, prominente, rugoso, majusculo, epidermide lacerata cincto; peritheciis nigris, minutis, compressis, numerosis, stromate immersis; ostiolis papillatis; cirro albido; sporulis globulosis, hyalinis.

Hab. in radicibus avulsis *Quercus emortuæ*, Mons Belgii (R. P. DUMONT).

6. **Cytospora mendax** Sacc. et Roum. Reliq. Lib. IV. n. 109. — 1473
Stromatibus superficialibus, epixylis, globoso-inæqualibus, usque $\frac{3}{4}$ mill. diam., atris, intus plurilocellatis; sporulis globoso-ellipsoideis, 4-5 = 3,5-4, hyalinis; basidiis minutis papilliformibus.

Hab. ad ligna quercina in Arduennis (LIBERT).

CYTOSPORA Ehrenb. Syl. Berol. p. 28. *Cytispora* Fr. S. M. II. p. 540. *Psecadia* Fr. Summa p. 414. (Etym. *cylos* cavitas, et *spora*). — Stromata tecta v. erumpentia, conica v. verruciformia, intus loculis difformibus, modo obsoletis, sæpe distincte circinantibus fœta. Sporulæ copiosissimæ, continuæ, subhyalinæ, oblongo-allantoideæ, basidiis variis suffultæ, madore in cirros varios expulsæ. Spermogonia Allantosporarum frequentissima. — Nonnullæ species, sporulis ignotis, forte ad *Cytosporellam* v. *Dumortieram* referri possent.

I. *Arboricolæ* (ramicolæ).

1. **Cytospora clypeata** Sacc. *Valsellæ clypeatæ* st. sperm. Fuck. 1474
Symb. App. I. p. 31. — Stromatibus multicellularibus, deplanatis, poro albo; sporulis allantoideis, 6 = 1, curvatis, hyalinis.

Hab. in ramis siccis corticatis *Rubi fruticosi* prope Æstrich Rhenogoviæ.

2. **Cytospora Rubi** Schw. Syn. Am. bor. n. 2161. — Tuberculis in 1475
macula aggregatis longe lateque effusa lactea, immersis, nigris, regulariter ovatis, applanatis, subcellularibus, intus albidis, elevatis in collum centrale, ex quo protruduntur cirri crassi difformes, decumbentes ex albo lutescentes.

Hab. in junioribus ramis *Rubi Idæi* hortorum, frigore enecati, Bethlehem Amer. bor.

3. **Cytospora Hendersonii** Berk. et Br. Outl. Fung. p. 322, Brit. Fungi 1476
p. 436. — Pustulis minutis, sparsis; peritheciis simplicibus (?) tenuibus, subinde margine lobatis, gelatina albida; sporulis oblongis brevibus, curvulis, hyalinis, majusculis, inordinate exsiliantibus.

Hab. in ramulis *Rosæ arvensis* in Britannia. — Teste Berk., in genere anceps et *Sphæropsidi* quoque proxima.

4. **Cytospora rhodophila** Sacc. *Valsæ rhodophilæ* st. sperm. Nits. 1477
Pyr. Germ. p. 209. — Stromatibus minutis, conico-truncatis, poro centrali, singulo apertis spurie paucilocularibus, loculis radiatim dispositis; sporulis cylindricis, curvulis, $5-7 \approx 1$, in sterigmatibus tenuissimis, breviusculis, subsimplicibus acrogenis.

Hab. in ramis siccis *Rosæ caninæ* in Germania et Britannia.

5. **Cytospora Rosarum** Grev. in Bail. Syst. d. Pilz. p. 81, t. 14. — 1478
Stromatibus gregariis, subcutaneo-erumpentibus, conicis, intus sinuose et obsolete plurilocellatis, cinereo-fuscis, epidermide subinde rubefacta cinctis; sporulis allantoideis, $5-6 \approx 1,5$, hyalinis.

Hab. in ramulis *Rosæ caninæ* in Gallia, Britannia, Italia, Germania. — Spermogonium *Valsæ Rosarum*.

6. **Cytospora Massariana** Sacc. *Valsæ Massarianæ* stat. spermog. 1479
Nits. Pyr. Germ. p. 221. — Stromatibus loculis minutissimis, densissime ac radiatim stipatis faretis, foramine unico, centrali in disco albido, pulverulento, instructis; sporulis cylindricis, subrectis, $6-7 \approx 1$; sterigmatibus brevibus, subsimplicibus.

Hab. in ramis *Sorbi Aucupariæ* in Gallia, Germania, Italia. 1480

7. **Cytospora microspora** (Corda) Rabenh. Deutsch. Crypt. Fl. p. 147.
Nemaspora microspora Corda Ic. III. p. 26, fig. 69. — Pustulis hemisphæricis, subcutaneis, albidis v. nigrescentibus, stromate partito atro, centro subcolumelliformi et subradiato; pseudostromate aurantiaco, loculis numerosis polymorphis v. flexuosis albidis, ostiolo centrali atro communi; cirro albo; sporulis suballantoideis curvulis, $6-7 \approx 1-1,3$; basidiis bacillaribus sporula triplo longioribus.

Hab. in ramis *Sorbi*, *Piri*, *Cratægi*, *Quercus* in Gallia, Germania, Suecia.

8. **Cytospora rubescens** Fr. S. M. II. p. 542. — Stromate subcutaneo depresso; disco erumpente fuligineo; cirris rubescentibus; loculis immersis circinantibus; sporulis allantoideis, 4μ . longis, aliisque (basidiis?) filiformibus $35-45 \mu$. longis.

Hab. ad corticem *Sorbi*, *Pruni*, *Piri* in Gallia, Suecia, Germania, Italia, America boreali. — *Eutypellæ Sorbi* spermogonium. *Cyt. rubescens* (Hedw. 1866, p. 73) sporulis gaudet $8-10 \mu$. longis, an diversa? — Conceptaculum omnino ut in *Sphæriis Incusis*. Loculi circa perithecium centrale circinantes numerosissimi, primo obsoleto, dein perithecia referunt, sed semper astomi, oblongo-diformes.

9. **Cytospora capitata** Sacc. et Schulz. *Micr. Slav.* n. 55. Schulz. *Ill.* 1482
Fung. Slav. n. 811. — Conceptaculis sparsis, subcutaneis, 1-2 mill. diam., discoideis loculis variis sinuosis, subinde incompletis, intus pallidis; ostioliis emergentibus, in globulum atrum coalescentibus; sporulis oblongo-botuliformibus, 5-3 μ . longis, hyalinis; basidiis fasciculatis, bacillaribus, breviusculis.

Hab. in ramis emortuis Piri Mali pr. Vinkovce.

10. **Cytospora leucostoma** (Pers.) Sacc. *Mich.* II. p. 264. *Sphæria* 1483
leucostoma Pers. p. p. — Stromate lenticulari, nigricante, subcutaneo-erumpente, disco plano, niveo emergente; cirris rubescentibus; sporulis botuliformibus, 5 \approx 1, hyalinis, basidiis filiformibus, 12 \approx 1, suffultis.

Hab. in ramis corticatis Pruni Padi, P. Cerasi, P. domesticæ in Germania, Gallia, Italia, Sibiria.

11. **Cytospora asterophora** Sacc. *Mich.* II. p. 265. — Conceptaculis 1484
conico-depressis, minutis, innato-erumpentibus, 4-5-ocularibus, nucleis pallidis; sporulis allantoideis 3½-4 \approx 1, hyalinis, basidiis obclavulatis, 20 \approx 2, fasciculatis, inque glomerulos eximie stellatos diu consistentibus suffultis.

Hab. in ramis corticatis Pruni domesticæ, Padova Italiæ borealis. — forma **Deutziae scabræ**: sporulis 3 \approx 1, basidiis verticillato-ramosis, 25-30 \approx 1. — In ejusdem ramis, Padova.

12. **Cytospora floccosa** Wallr. *Fl. crypt.* n. 3636. — Peritheciis ni- 1485
gris simplicibus, epidermide scissa cinctis, vertice truncato albo ocellato, cirrum candidum crassum guttatum, ex sporulis solutis (ovatis?) conflatum eructantibus.

Hab. ad ramos Pruni domesticæ in Germania.

13. **Cytospora microstoma** Sacc. *Valsæ microstomæ* st. spermog. 1486
Nits. Pyr. Germ. p. 193. — Stromatibus e basi rotundato-ovali convexis, rarius conicis, poro in disculo unico, raro pluribus instructis, multilocularibus, loculis radiatim ordinatis; sporulis cylindricis, curvulis, pro ratione crassiusculis, 5-6 \approx 1,5; sterigmatibus breviusculis, 28 μ . circ. longis, ramosis, crassiusculis.

Hab. in ramis crassioribus Pruni spinosæ et domesticæ in Anglia, Gallia, Germania, Italia, Suecia, frequens.

14. **Cytospora cincta** Sacc. *Valsæ cinctæ* st. sperm. 1487
Nits. Pyr. germ. p. 228. — Stromatibus pustulatis, poro unico, centrali, raro pluribus in disco sordide albido apertis, nunc subsimplicibus, nunc contra pauci- v. multilocularibus, loculis radiatim ordinatis; sporulis

cylindricis, curvulis, magnitudine variis, plerumque 6-8-rarius 4-9 \approx 1,5-2, in cirros rubescentes tandem protrusis.

Hab. in ramis Pruni spinosæ, Armeniacæ, Persicæ in Suecia, Germania, Gallia.

15. **Cytospora cerasicola** Sacc. *Valsaricæ rubricosæ* spermog. Fuck. 1488

Symb. myc. p. 227. — Stromatibus sub corticis epidermide nidulantibus, maximis, cytosporoideis, plurilocularibus, conceptaculis depresso-globosis, extus atris, basi albicantibus, villosis, sæpe confluentibus, demum per corticem fissam valde intumescantibus; sporulis minutissimis, cylindræis, subcurvatis, 3 \approx 1, hyalinis.

Hab. in cortice Cerasi avium, rarius, in Rhenogovia.

16. **Cytospora leucophthalma** B. et C. North Am. Fungi n. 462. — 1489

Pustulis minutis, apice niveo, ostiolo communi, atro percurso; peritheciis in stromate nigro conditis, globoso-ellipsoideis; sporulis minutissimis curvulis.

Hab. in cortice Cerasi caroliniensis in Carolina inf., New Jersey Am. bor. Exemplaria ex New Jersey (*C. nivosæ* B. et C.) sporulis pollent paulo longioribus, cetera eadem.

17. **Cytospora anceps** Sacc. Mich. II. p. 344. — Stromatibus grega- 1490

riis subcutaneo-prominulis, vix erumpentibus, globulosis, intus univ. paucilocularibus, olivaceis, $\frac{1}{2}$ mill. diam.; sporulis allantoideis, 6-10 \approx 1, curvulis, hyalinis.

Hab. in ramis corticatis Cerasi (an potius Fagi?) in Gallia merid. — Ob habitum forte *Fenestellæ* spermogonium.

18. **Cytospora globifera** Fr. S. M. II. p. 546. — Tuberculo difformi, 1491

sublobato, stramineo, nigro-limitato; gelatina erumpente, globosa, flavo-fusca.

Hab. in cortice Spirææ opulifoliæ in Suecia. — Eximie distincta; cellulæ obsoletæ, in tuberculum solidiusculum concretæ, cortici omnino innatæ, nec discus erumpens; globulus induratus, persistens.

19. **Cytospora Oxyacanthæ** Rabenh. Bot. Zeit. 1858, p. 503, n. 754. 1492

— Stromatibus 10-12-locellatis; sporulis cylindricis, utrinque rotundato-obtusis, hyalinis, continuis, plus minusve curvatis.

Hab. in ramis Cratægi Oxyacanthæ in Germania.

20. **Cytospora Cotoneastri** Thüm. Pilzfl. Sibir. n. 783. — Peritheciis 1493

gregariis, erumpentibus, conoideis, epidermide pertusis, disco albo et plano, medio ostiolato; basidiis fasciculatis, brevibus, hyalinis, rectis; sporulis cylindricis, subarcuatis, utrinque acutato-rotundatis, continuis, interdum nucleatis, numerosis, achrois, 9-10 \approx 2,5.

Hab. in ramulis emortuis Cotoneastri melanocarpæ in desertis pr. Minussinsk Sibiriaë. — A *Cytospora nivea* Fuck. Enum. fung. Nassov. n. 431 differt sporulis duplo majoribus!

21. **Cytospora macularis** Schulz. et Sacc. Micr. Slav. n. 56. Schulz. 1494
Ill. Fung. Slav. n. 261. — Albo-macularis; stromatibus subcutaneo-erumpentibus, depresso verruciformibus, $\frac{1}{6}$ - $\frac{1}{3}$ mill. diam., cinereo-fuscis, intus loculos tortuosos pallidos ferentibus; sporulis allantoideis, hyalinis, $8 \approx 3$; basidiis fasciculatis 3-4-plo longioribus, bacillaribus, parce ramulosis.

Hab. in ramis Persicæ vulgaris pr. Vinkovce. — Maculæ albæ corticales, 10-12 mill. lat. vere peculiare!

22. **Cytospora Persicæ** Schw. Syn. Amer. bor. n. 2156. — Tuberculo tecto, demum prorumpente, orbiculari, minuto, sparso, nigro; ore albescente, cirrulo deciduo, albido; intus celluloso-grumoso albescente.

Hab. frequentissima in junioribus ramulis Persicarum, New York, Salem et Bethlehem Amer. bor. (SCHWEINITZ, SARTWELL).

23. **Cytospora punica** Sacc. Mich. I. p. 368. *Valsæ punicæ* spermog. 1496
Cfr. Syll. I. p. 130. Fung. It. 403. — Peritheciis subcutaneis laxè congregatis, globulosis; ostioliis vix emergentibus cylindræis perithecio sublongioribus; contextu regulariter parenchymatico fuligineo; sporulis botuliformibus, $5 \approx 1$, hyalinis; basidiis bacillaribus sporulâ duplo triplove longioribus.

Hab. in ramis corticatis Punicæ Granati, Conegliano Italia borealis.

24. **Cytospora Australiae** Speg. F. Arg. Pug. I. p. 189. — Peritheciis minutis, 90-110 μ . diam., 3-5 valsiformiter aggregatis, cortici immersis subglobosis, in ostiolum elongatiusculum desinentibus, contextu membranaceo, parenchymatico, olivaceo; ostioliis fasciculatis superficiem corticis attingentibus, non vel vix exsertis, atris, punctiformibus; sporulis allantoideis, curvulis, utrinque obtusiusculis, 4-6 \approx 1,5-2, hyalinis, sterigmatibus hyalinis, cylindræis vel subfusiformibus, 15-16 \approx 1,5, suffultis.

Hab. in ramulis dejectis emortuis Eucalypti Globuli a la Recoleta in Argentina Amer. austr.

25. **Cytospora Vitis** Mont. Syll. Crypt. n. 925. *Valsæ Vitis* st. sperm. 1493
Nits. Pyr. Germ. p. 190. — Stromatibus per corticem superiorem fibrosum, ductu lineari longitudinaliter parumque emergentibus, primo albido-pulverulentis, collo centrali, nigro, poro pertuso præditi, multilocularibus, loculis radiatim dispositis irregularibus;

sporulis cylindricis, curvulis, 4-5 = 1, in sterigmatibus simplicibus, longiusculis acrogenis, tandem in cirros pallide luteolos v. succineos protrusis.

Hab. in sarmentis *Vitis viniferæ* in Germania, Italia, Gallia, Amer. bor. — *Cytospora Vitis* Fuck. F. Nass. p. 52 eadem species videtur. — Var. **macrospora** Sacc. et Roum. Reliq. Lib. IV. n. 104; sporulis 10 = 1,5. In ejusdem sarmentis in Gallia.

26. **Cytospora incerta** Thüm. Pilz. Weinst. p. 184 *C. Vitis* Schulz. 1499

— Pseudoperitheciis variis, aut simplicibus aut conjunctis, tenuissimis, parte emersa nigris, plerumque immersis, postremo evanescentibus; hyphis paullulum ramosis; sporulis cylindrico-curvatis, hyalinis, 6 μ . longis.

Hab. in sarmentis emortuis *Vitis viniferæ* in Slavonia (SCHULZER).

27. **Cytospora ampelina** Sacc. *Cryptovalsæ ampelinæ* st. sperm. sec. 1500

Nits. — Peritheciis seriatis, in stromate nunc longe lateque effuso, nunc contra brevi, maculiformi, immersis, atris; sporulis copiosis, cylindræis, utrinque obtusis, rectis, continuis, hyalinis, 16 = 2,5.

Hab. in sarmentis *Vitis* in Gallia, Italia, Germania.

28. **Cytospora rhoïna** Fr. S. Myc. II. p. 546. — Tuberculo globoso, 1501 solidiusculo, pallido; cirro tenerrimo concolori; sporulis 5 μ . longis.

Hab. in ramis emortuis *Rhois* in Suecia et Amer. bor. — Sclerotium refert, molle, absque cellulis distinctis. Cirrus admodum rarus et tenuis.

29. **Cytospora Buxi** Desm. 16 Not. p. 355. — Stromatibus minutis, 1502

sparsis, nigris, ovatis, subconicis epidermide rimose rupta tectis; ostiolo papilliformi; peritheciis 2-4 polymorphis; basidiis tenuibus abbreviatis; sporulis minutissimis, numerosis, ovoideo-oblongis, subacutis, hyalinis, 5-7 μ . diam., 2-guttatis; cirro albido griseo.

Hab. in ramis emortuis *Buxi* sempervirentis in Gallia.

30. **Cytospora sphærocephala** (Schw.) Sacc. *Lamyella sphærocephala* 1503

Fr. Summa p. 410. *Sphæria sphærocephala* Schw. Fr. S. M. II. p. 497. Cfr. Syll. II. p. 425, ubi descriptio.

Hab. in ramis *Hydrangeæ* in Carolina Amer. bor.

31. **Cytospora atra** (Bon.) Sacc. *Lamyella atra* Bon. Abhandl. II. 1504

p. 134, t. II. f. 15. — Stromate parvo, tecto-erumpente, extus atro, intus pallido, distincte plurilocellato, loculis in disco prominulis porisque discretis rotundatis instructis; sporulis oblongo-oblatoideis, minutissimis, hyalinis; basidiis ramosis longiusculis.

Hab. in ramis siccis *Mori* albæ et nigræ in Guestphalia.

- Præcipue ostioli discretis dignoscenda. Affinis *Cytosp. sphaerocephalæ*.
32. **Cytospora ficicola** B. et C. North Am. Fungi n. 461. — Pustulis minutis, epidermide tectis; peritheciis globosis; sporulis oblongis curvulis, 7 μ . longis. 1505
Hab. in ramis Fici in Pennsylvania Amer. bor. (MICHENER).
33. **Cytospora macilenta** Rob. et Desm. XVII. Not. p. 26. — Stromatibus minutis, punctiformibus, brunneis vel nigris, numerosis, inordinatis, irregulariter rotundatis, ovatis vel reniformibus, convexis, epidermide tectis, dein rupta cinctis; loculis, 5-7 tenuibus, circinantibus; nucleo pulposo; cirro crasso, abbreviato, albedo lutescente; sporulis oblongis, rectis, obtusiusculis, hyalinis, 2-4 guttulatis, 10-15 \approx 2,5, subopacis. 1506
Hab. in ramis exsiccatis Aceris Negundinis et Corni maris in Gallia et Belgio.
34. **Cytospora hyalosperma** Fr. S. M. II. p. 545. — Stromate immerso obsolete celluloso colloque erumpente conico-convexo nigris; cirro hyalino. 1507
Hab. in cortice Aceris rubri in Carolina super. Amer bor. — Inter minores, absque disco depresso.
35. **Cytospora Pseudoplatani** Sacc. *Valsæ Pseudoplatani* st. spermog. 1508
 Nits. Pyr. Germ. p. 205. — Stromatibus minutis, e basi orbiculari conico-truncatis, disculo erumpente, ochraceo, papilla atra, porosa, centrali, minutissima, instructo, multilocularibus, loculis radiatim dispositis; sporulis cylindricis, curvulis, 5 \approx 1,5; sterigmatibus simplicibus, tenuissimis, 28 μ . longis.
Hab. in ramis Aceris Pseudoplatani, Cappenberg in Germania et in Suecia.
36. **Cytospora occulta** Sacc. *Melanconidis occulta* spermog. Fuck. 1509
 Symb. p. 190. — Peritheciis sub cortice nidulantibus, connatis, griseis; cirris ex poro communi, tuberculato, nigro expulsis, aureis; sporulis minutissimis, cylindræis, curvatis, continuis, hyalinis.
Hab. in ramis siccis Alni glutinosæ in Rhenogovia.
37. **Cytospora truncata** Sacc. *Valsæ truncatæ* st. sperm. Cfr. Syll. 1510
 — Stromatibus truncatis, medio pulverulentis et subrimosis; sporulis allantoideis, coacervatis, succineis, 3-5 μ . longis.
Hab. in ramis Alni, Johusburgh, Warren C., Amer. bor.
38. **Cytospora diatrypa** Sacc. *Valsæ diatrypa* st. sperm. Nits. Pyr. 1511
 Germ. p. 226. — Stromatibus poro in disco albido singulo, centrali, multo rarius duobus tribusve pertusis, multilocularibus, locu-

lis numerosis, minutissimis, circinatim ordinatis; sporulis cylindricis, curvulis, $6 \approx 2$, tandem in cirros rubentes protrusis; sterigmatibus longiusculis, filiformibus, ramosis.

Hab. in ramis Alni glutinosæ et incanæ in Suecia, Germania, Gallia et Fennia.

39. **Cytospora stenopora** Sacc. Myc. Ven. n. 751. *Valsæ stenoporæ* 1512
spermogonium. Cfr. Syll. I. p. 129. — Stromatibus gregariis, subcutaneo-erumpentibus, conicis, griseis, obsolete plurilocellatis, disco minuto erumpente; sporulis allantoideis, exiguis, curvulis, $4-5 \approx 0,5$, hyalinis.

Hab. in ramis Alni glutinosæ in Italia et Gallia, sociâ *Valsa*.

40. **Cytospora umbrina** (Bon.) Sacc. *Psecadia umbrina* Bonord. Ab- 1513
handl. p. 131, t. II. f. 6. — Stromate hemisphærico obtuso, umbrino demum nigro, subcutaneo, prominulo vix erumpente, intus lobato-1-loculari, pallidiore; sporulis allantoideis, minimis, hyalinis; basidiis ramulosis filiformibus.

Hab. in ramis Alni in Guestphalia. — « An *Dendrophoma?* ».

41. **Cytospora horrida** Sacc. *Valsæ horridæ* stat. spermog. Nits. Pyr. 1514
Germ. p. 176. — Stromatibus e basi ovata convexis, depressis, subito in disculum minutum, ellipticum, planum, peridermium tandem transversim erumpentem idque vix superantem attenuatis, multilocularibus, loculis numerosissimis, sine ordine stipatis, extus castaneis, intus viridulis, poro in disculo minuto, albido-cinereo unico centrali, rarius pluribus perforatis; sporulis cylindricis, curvulis, hyalinis, in sterigmatibus dichotome ramosis, $20-48 \mu$. longis acrogenis.

Hab. in ramis dejectis Betulæ albæ prope Münster Germaniæ.

42. **Cytospora betulina** Ehrenberg Sylv. Ber. p. 28. — Peritheciis 1515
depressis atris, disco erumpente, cirro tenui rubello.

Hab. in ramis Betulæ albæ et verrucosæ in Germania, Belgio et Sibiria. — Cellulæ in cortice interiore obvallatæ absque stromate et conceptaculo. Discus erumpens, grumosus, cinerescens, planus.

43. **Cytospora stellulata** Sacc. *Valsæ stellulatæ* spermog. Fuck. Symb. 1516
p. 196. — Stromatibus multicellularibus; gelatina globuliformiter vel irregulariter expulsa, sordida; sporulis majusculis, cylindricis, curvatis, $16 \approx 3-4$.

Hab. in ramulis emortuis Ulmi campestris in Rhenogovia.

44. **Cytospora carbonacea** Fr. S. M. II. p. 544. — Stromate proprio 1517
tenui, cellulis atris discoque albido obsolete; ostiolis prominentibus atris.

Hab. in ramis Ulmi in Suecia et Amer. bor. — Species minus cognita, licet vulgatissima; conceptaculo proprio instructa; pustulæ minutæ, non prominentes, in cortice interiore innatæ, stromate proprio carbonaceo, in cellulas obscuras diviso, sed adest columna centralis admodum distincta; cirrus non visus.

45. **Cytospora nivea** (Hoffm.) Sacc. Mich. II. p. 264, *Sphæria nivea* 1518
Hoffm. p. p. — Stromatibus gregariis, subcutaneo-erumpentibus, conico-disciformibus, atris, intus minute plurilocellatis, disco erumpente subcirculari niveo; poro centrali pertuso; cirro purpurascenti; sporulis botuliformibus, hyalinis, 6-7 \approx 1,5-2.

Hab. in ramis corticatis Populi nigræ, angulatæ, tremulæ in Italia, Gallia, Germania, Sibiria, Britannia. — Spermogonium *Valsæ* (Leucostomæ) *niveæ*.

46. **Cytospora chrysosperma** (Pers.) Fr. S. M. II. p. 542. *Næmaspora* 1519
chrysosperma et *populina* Pers. Syn. p. 108-109. — Stromatibus subcutaneis, conico-applanatis, majusculis, olivaceo-cinereis, loculis immersis, subinde irregularibus, disco erumpente nigro-cinereo; sporulis allantoides, hyalinis, 4 \approx 1; cirris aureis majusculis copiosis.

Hab. ad ramos corticatos Populi albæ, græcæ, italicæ, nigræ in Suecia, Germania, Gallia, Italia, Austria, America boreali. — *Valsæ sordidæ* spermogonium. — Conceptaculum orbiculare, conicum, basi convexa scutellari in cortice interiore innata et superne epidermide adnata incusum, quare hac rupta laceratur et denudatur huic inclusum stroma olivaceo-cinereum, quod superne erumpit formatque discum exiguum, sordidum, rugosum, difformi-subrotundum, ostiolo centrali nigro, per quod protruditur gelatina cirrosa: loculi difficile discernuntur, oblongi, atri, humectati gelatina flava turgent, ostiolis in collum centrale junctis.

47. **Cytospora salicella** Sacc. *Valsellæ Salicis* spermog. Fuck. Symb. 1520
myc. p. 203. — Stromatibus multicellularibus; cirris pallidis, angustissimis; sporulis cylindræis, curvatis, 2,7 \approx 0,5.

Hab. in ramulis corticatis Salicis auritæ in Rhenogovia.

48. **Cytospora dolosa** Sacc. *Valsæ dolosæ* st. sperm. Nits. Pyr. Germ. 1521
p. 200. — Stromatibus majusculis, protuberantibus, sæpe verruciformibus, intus viridulis, multilocularibus, loculis numerosissimis, sine ordine denseque stipatis; collo poroque singulo v. pluri-

bus aperto; sporulis cylindricis, curvulis, 6-7 \approx 1,5; sterigmatibus 32-40 μ . longis, hinc inde ramosis.

Hab. in ramis Salicis Capreæ prope Münster Germaniæ.

49. **Cytospora translucens** Sacc. *Valsæ translucentis* st. sperm. Nits. 1522

Pyr. Germ. p. 227. — Stromatibus perexiguus in disculo albido, fusco-marginato, poro unico centrali, rarius duobus tribusve apertis, paucilocularibus, loculis radiatim ordinatis, immo subsimplicibus; sporulis cylindricis, curvulis, 4-5 \approx 1; sterigmatibus filiformibus, tenuissimis, 4 μ . longis, immo longioribus.

Hab. in ramulis Salicis babylonicæ, rarius S. fragilis, albæ, pentandræ, purpureæ etc. in Germania, Fennia, Italia et America boreali.

50. **Cytospora Schweinitzii** Sacc. *Valsæ Schweinitzii* Nits. Pyr. Germ. 1523

p. 191. — Stromatibus e basi orbiculari, truncato-conicis, minutis, nonnihil protuberantibus, peridermio erumpentibus ejusque laciniis fissis cinctis v. peridermio, facile solubili, dejecto, in corticis interioris superficie fuscescenti liberis, in collum crassum, poro latiusculo pertusum attenuatis, spurie multilocularibus, immo simplicibus, loculis, ubi adsunt, pluribus, majusculis, radiatim dispositis; sporulis cylindricis, curvulis, 4-5 \approx 1; sterigmatibus simplicibus v. basi ramosis, 28 μ . longis.

Hab. in ramis corticatis Salicis Capreæ et fragilis in Germania et Italia.

51. **Cytospora macrobasis** Sacc. Mich. II. pag. 344. — Stromatibus 1524

erumpentibus, majusculis, globuloso-aggregatis, vertice sæpe obtuse papillatis, astomis, nigris; sporulis botuliformibus, vix curvulis, 7-8 \approx 2, 2-guttulatis, hyalinis, basidiis iterato-furcatis, bacillaribus, 60 \approx 2, hyalinis suffultis.

Hab. in ramis corticatis salicinis pr. Rouen Galliæ (LETENDRE). — Basidiis prælongis mox distinguenda species.

52. **Cytospora fertilis** Sacc. *Valsellæ fertilis* st. sperm. Nits. Pyr. 1525

Germ. p. 238. — Stromatibus minutis, dense gregariis, pustulatis, poro unico in disco albido centrali apertis, multilocularibus, loculis radiatim ordinatis; sporulis cylindricis, curvulis, 5-7 \approx 2, tandem in cirros rubentes propulsis; sterigmatibus breviusculis 20 μ . longis, parce ramosis, crassiusculis.

Hab. in ramis et trunco Salicis Capreæ prope Münster Germaniæ.

53. **Cytospora Salicis** (Corda) Rabenh. Deutsch. Flora, Fung. n. 1340. 1526

Nemaspora Salicis Corda Ic. IV. fig. 20, p. 80. — Stromatibus

gregariis, tectis, dein erumpentibus, conicis; disco cinereo-fusco emergente; peritheciis radiantibus v. labyrinthicis, confluentibus, pallidis v. griseis; cirro albido; sporulis botuliformibus, curvulis, 5-6 \approx 1, basidiis bacillaribus sporulâ triplo longioribus.

Hab. in ramulis emortuis Salicis vitellinæ, albæ, fragilis, purpureæ in Italia, Germania, Gallia, Austria, America australi. — Forma Betulæ carpathicæ Corda l. c.: sporulis 8-10 μ . longis. In Bohemia. — *Valsæ salicinæ* spermogonium.

54. **Cytospora germanica** Sacc. *Valsæ germanicæ* st. sperm. Nits. 1527

Pyr. Germ. p. 215. — Stromatibus conico-truncatis, disco ex albido-cinereo et papilla minutissima, atra, centrali, pertusa instructis, multilocularibus, loculis radiatim dispositis; sporulis cylindricis, curvulis, 5 \approx 1,5; sterigmatibus filiformibus, tenuissimis, subsimplicibus, circiter 20-24 μ . longis.

Hab. in ramis putrescentibus Salicis triandræ, pentandræ, fragilis, nec non Betulæ et Populi tremulæ in Germania et Fennia.

55. **Cytospora aurora** Mont. et Fr. Notice etc., in Ann. 2, I. p. 347. 1528

— Immersa; conceptaculo nullo; cellulis difformibus, circinantibus, atris stromate pulveraceo immersis; ostiolo centrali, nigro, cuticulam perforante; gelatina madefacta rosea, sicca crocea, primo globuliformi, demum late effusa; sporulis rectis oblongis.

Hab. in ramis salicinis in Gallia et Italia.

56. **Cytospora atro-nitens** Chev. Fl. Par. I. p. 431. — Stromate pro- 1529
minente, conico, disco albido plano; peritheciis circinantibus, nigris, demum confluentibus; cirro albido.

Hab. in ramulis emortuis salicinis in Gallia et Belgio.

57. **Cytospora Capreæ** Fuck. Symb. pag. 190, *Valsæ Schweinitzii* 1530

Sperm. Nits. Pyr. 191. — Stromatibus gregariis subcutaneo-erumpentibus, in collum crassum poro pertusum attenuatis, radiatim spurie plurilocellatis; sporulis allantoideis curvulis, 4-5 \approx 1, hyalinis.

Hab. in ramis Salicis Capreæ etc. in Germania et Algeria.

58. **Cytospora xanthosperma** Fr. S. Myc. II. p. 543. — Concepta- 1531

culo nullo; cellulis circa columnam centralem circinantibus; disco obtecto; cirro rudi aureo.

Hab. in ramis Salicis in Kamtschatka (WORMSKIOLD), in virgultis Salicis capensis in Somerset-East Africae austr. (MAC-OWAN). — Conceptaculum nullum neque pustulæ supra corticem prominent; cellulæ atræ, cortici interiori innatæ; discus convexus, levis, aeneo-fuscus, epidermide tectus, nec epidermide lacerata

erumpens, centro poro subtili pertusus, dein vero elabens, foveolam profunde umbilicatam relinquens, disco minimo albo, ostiolo atro depresso.

59. **Cytospora fugax** (Bull.) Fr. Syst. Myc. II. pag. 542, *Variolaria fugax* Bull. — Stromate obsoleto, cellulis atris circinantibus, disco plano fuliginoso, cirris tenellis pallidis. 1532

Hab. in ramulis corticatis salicinis et coryleis in Germania, Suecia, Sibiria asiatica. — Pustulæ prominentes, lentiformes, cum epidermide concretæ, subincusæ; cellulis circa columnam centralem circinantibus, gelatina copiosa tumentibus; cirro tenui albedo-griseo subhyalino dignoscitur.

60. **Cytospora incarnata** Fr. S. M. II. p. 542. — Loculis subglobosis, atris, in stromate lentiformi proprio nidulantibus; cirris filiformibus incarnato-roseis; sporulis cylindricis, curvulis, hyalinis, obtusis, 12 μ . longis. 1533

Hab. in ramis exsiccatis Carpini et Salicis in Suecia, Germania. — Stroma orbiculatum, depressum, atrum, epidermide pustulato-elevata tectum, collo brevi erumpente terminatum. Cellulæ minutæ, ægre discernuntur, circa centralem circinantes.

61. **Cytospora decipiens** Sacc. *Anthostomatis decipientis* stat. sperm. Nits. Pyr. Germ. p. 302. — Stromatibus sub corticis strato extimatis, plerumque oblongis, margine repandis, seriatim sæpe ordinatis, multilocularibus, auratis, loculis innumeris, ordine haud perspicuo dispositis; sporulis lineari-cylindricis, tenuissimis, curvatis, in cirros v. glebas rubras v. aureas tandem eructatis. 1534

Hab. in truncis decorticatis corticisque Carpini, rarius in Acere, Betula, Quercu, Fago in Germania, Gallia, Italia, Britannia et Belgio.

62. **Cytospora Fuckelii** Sacc. *Valsæ Fuckelii* spermog. Nits. Pyr. p. 192 et Fuck. Symb. p. 199. — Stromatibus plurilocularibus, obtuse conicis, poro communi, subrostrato, perforato, in disco convexo, sordido, loculis radiatim ordinatis, inæqualibus, nucleo griseo; cirris?; sporulis cylindræis, curvatis, simplicibus, 6 \simeq 1,5. 1535

Hab. in ramis Coryli Avellanæ in Italia et Germania.

63. **Cytospora affinis** Sacc. *Valsæ affinis* sperm. Fuck. Symb. p. 199. — Peritheciis circinantibus; sporulis cylindræis, curvatis, 4 \simeq 1, in sterigmatum ramosorum apicibus insertis. 1536

Hab. in ramis tenuioribus Coryli Avellanæ rarius in Rhénogovia.

64. **Cytospora ocellata** Fuck. F. Nassov. n. 432. — Stromate plano- 1537

conico, nigro, disco niveo, hemisphærico marginato, ostiolo pertuso; peritheciis ovoideis subgelatinosis; cirro tereti curvato, atro-purpureo; sporulis botuliformibus, 5 = 1, in basidiis acicularibus verticillatis, acrogenis, hyalinis, coacervatis, carneolis.

Hab. in cortice Coryli Avellanæ in Nassovia, et Ribis rubri in Gallia.

65. **Cytospora melasperma** Fr. S. M. II. p. 545. — Peritheciis depressis atris; disco erumpente albido; cirro rudi atro. 1538

Hab. in ramis coryleis rarius in Germania et Suecia.

66. **Cytospora guttifera** (DC.) Fr. S. M. II. p. 545, *Sphæria guttifera* DC. Fl. Fr. VI. p. 136, *Psecadia guttifera* Fr. Summa, Bonnord. Abh. I. p. 47. — Tuberculo immerso, celluloso, nigro, mox attenuato, in collum erumpens, conicum, obtusum; gelatina globosa albida; sporulis oblongo-cylindræis. 1539

Hab. in ramis Coryli et Quercus in Gallia, Tiliæ in Germania. — Cellulæ atræ sistunt tuberculum atrum cortici immersum, cui imposita est columna epidermidem perforans. Globulus demum nigrescens.

67. **Cytospora intermedia** Sacc. *Valsæ intermedicæ* stat. sperm. Nits. 1540
Pyr. Germ. p. 199. — Stromatibus multilocularibus, loculis radiatim v. sine ordine dispositis faretis, papilla atra, pertusa, singula in disculo cinereo, minimo centrali, rarius duabus apertis; sporulis cylindricis, curvulis, 5-6 = 1,5; sterigmatibus basi hinc inde ramosis, 20-24 μ . plerumque longioribus.

Hab. in ramis tenuioribus Quercus, rarius prope Münster.

68. **Cytospora cænobitica** Sacc. *Valsæ cænobiticæ* stat. spermog. Nits. 1541
Pyr. Germ. p. 179. — Stromatibus e basi suborbiculari depresso conicis vel convexis, multilocularibus, loculis radiatim stipatis, collo singulo centrali, raris duobus, late pertusis præditis; sporulis cylindricis, curvulis, hyalinis, in sterigmatibus brevibus, basi ramosis acrogenis, 5-6 = 1.

Hab. in ramis Quercus in Italia bor. et Germania, in radicibus Alni prope Münster.

69. **Cytospora Quercus** Sacc. *Cyt. quercina* West. in Lamb. Fl. Myc. 1542
Belg. an Schw.? — Peritheciis nigris; compressis, exiguis in pustulas conicas minutas congestis; disco erumpente rotundo, griseo-brunneo, poro centrali pertuso; cirro flavo-aureo, denso, vario, sæpe torto; sporulis ovoideo-cylindricis, 2-guttulatis, hyalinis.

Hab. in ramis emortuis Quercus prope Louvain Belgii (LEBURTON), prope Rouen Galliæ (MALBRANCHE). — An diversa a *Cyt.*

quercina Schw.? — Sporulæ in exempl. gallicis rectiusculæ, cylindraceæ, $3 \approx 1$, basidiis fasciculatis subfurcatis, sporulâ longioribus suffultæ.

70. **Cytospora quercina** Schw. Syn. Amer. bor. n. 2160. — Cellulis 1543
in conceptaculo incusis conico-irregulari nec tam efformato quam
in *Cyt. chryso sperma*; ostioliis pluribus difformibus crassis; cirris
lutescentibus mediocribus ex ostioliis.

Hab. in lignis ad ignem præparatis, Bethlehem Amer. bor. —
Affinis *Cyt. chryso sperma*.

71. **Cytospora tumida** Lib. Exs. n. 170, Fuck. Symb. I. p. 398. — 1544
Stromatibus erumpentibus, turgidis, intus plurilocularibus; sporulis
cylindraceis, curvatis, minutis, $6 \approx 1\frac{1}{2}$, hyalinis.

Hab. in ramis putridis *Quercus* prope Weinheim Rhenog-
viæ et in Arduennis.

72. **Cytospora ventricosa** Sacc. Mich. II. p. 344, *Valsæ ventricosæ* 1545
spermog. Fuck. Symb. Myc. p. 195. — Stromatibus conoideis vel
subglobosis, denique liberis, majusculis, intus pluri-locellatis, oli-
vaceo-nigris; sporulis allantoideis, minutis, $4 \approx 1$, hyalinis.

Hab. in ramis denique decorticatis *Quercus* in Gallia, Ger-
mania, Italia.

73. **Cytospora epixyia** Sacc. et Roum. Reliq. Libert. Ser. IV. n. 108. 1546
— Acervulis gregariis, epixylis, prorsus superficialibus, globosis
inæqualibus, atris, $\frac{1}{2}$ - $\frac{3}{4}$ mill. diam., intus plurilocellatis; sporulis
allantoideis, hyalinis, $4 \approx 1$; basidiis longis, bacillaribus, verticilla-
tis vel vage ramosis.

Hab. in lignis *Quercus* in Arduennis (LIBERT). — Ad *Den-
drophomam cytosporoidem* vergit.

74. **Cytospora difformis** Schw. Syn. Amer. bor. n. 2159. — Magna, 1547
cellulis in conceptaculo indistincto incusis, tam irregulari et sæpe
obliterato ut cellulæ lutæ gyrosæ, materie nigra indurata repletæ,
quasi in corticali substantia nidulare videantur, tamen nigro-cir-
circumscriptæ; ostioliis confusis crassis, emittentibus cirros rudes,
majores incarnato-rubescens, demum corneos, demum omnino
tectos pulvere albo-filamentoso: prorumpit ex rimis corticis et fa-
cile maxima est species generis.

Hab. in maximis ramis quercinis ad ignem destinatis, Beth-
lehem Amer. bor.

75. **Cytospora paradoxa** (Dur. et Mont.) Sacc. *Sphaeronæma para-* 1548
doxum Dur. et Mont. Fl. Alg. I. p. 578, *Sphaeria ceratosperma*
Tode Meckl. 2, p. 53, Moug. et Nestl., *Stirpes Vogesiæ* exsic.

n. 567! — Erumpens, convexa, sphæriæformis; peritheciis globosis longe rostellatis, stromate fusco-nigro junctis et cinctis; ostioli spinulosis rectis vel tortuosis, scabris; sporulis minutis, allantoideis; basidiis convergentibus.

Hab. in ramis corticatis Quercuum in Algeria et Gallia.

76. **Cytospora decorticans** Sacc. *Valsæ decorticantis* st. spermog. 1549
Nits. Pyr. Germ. p. 194. — Stromatibus conicis, truncatis, papilla in disco albido centrali singula, atra aperta, multilocularibus, loculis minutis radiatim vel sine ordine stipatis; sporulis cylindræis, curvulis, 4-5 \approx 1, in sterigmatibus brevibus, 16 μ . plerumque longis; basi crassiuscula dichotome vel trichotome ramosis, acrogenis.

Hab. in ramis exsiccatis Fagi silvaticæ et Carpini in Suecia, Germania, Gallia, Italia, Belgio.

77. **Cytospora ferruginea** Desm. in Wallr. Fl. crypt. n. 3632. — 1550
Peritheciis 15-20, extus albidis circinantibus coacervatis in conceptaculo atro, crasso, orbiculari, planiusculo, hypophlæode; ostiolo centrali epidermidem perforante punctique albi instar prominulo, cirris ferrugineis; sporulis perexiguis ovoideis.

Hab. in ramis fagineis languentibus rarius in Gallia, Belgio et Germania. — Var. **chionostoma** Mont. Ann. Sc. Nat. 2, XX. p. 373. — Erumpens, cæspitose-confluens vel striæformis; conceptaculis denudatis, globosis, atris; peritheciis circinantibus membranaceis, pallidis, ostiolo fusco, aureola nivea cincto. — Ad ligna emortua denudata, Lugduni Gallicæ (MONTAGNE).

78. **Cytospora durella** Sacc. *Valsæ duriusculæ* st. spermog. Nits. 1551
Pyr. Germ. p. 234. — Stromatibus e basi orbiculari in conulum sensim attenuatis, subcutaneo-erumpentibus, multilocularibus, loculis numerosissimis, minutissimis, radiatim dispositis, poro in disco orbiculari, exiguo, niveo-centrali, singulo apertis; sporulis minutissimis, cylindricis, subrectis, 3 \approx 1, in sterigmatibus, basi ramosissimis, tenuissimis, 14 μ . longis, acrogenis ac tandem in cirros hyacinthinos rubros protrusis.

Hab. in ramis corticatis Fagi silvaticæ, Heimberg Helvetiæ, ubi legit Otth.

79. **Cytospora duriuscula** Sacc. Mich. II. p. 627. — Stromatibus conico-pulvinatis, 1 mill. diam., (excepto disco) tectis, vel cortice secedente subsuperficialibus, fuscis, disco minuto albo-pruinoso, intus pallidioribus, spurie plurilocularibus; sporulis allantoideis, leniter 1552

curvis, 2,5-3 \approx 0,5-1, hyalinis; basidiis bacillaribus, paulo longioribus.

Hab. in cortice emortuo Fagi, Lyon Galliæ (TERRY). — Species elegans et distincta, forte sistens statum spermogonicum *Valsæ duriusculæ*.

80. **Cytospora pustulata** Sacc. et Roum. Mich. II. p. 627. — Conceptaculis plurilocularibus, intus griseis, subcutaneo-erumpentibus; sporulis allantoideis, 4-4½ \approx ¾, curvulis, hyalinis. 1553

Hab. in ramis corticatis fagineis, Saintes Galliæ (BRUNAUD). — Spermogonium, ut videtur, *Valsæ pustulatæ*.

81. **Cytospora Juglandis** (Schum.) Rabenh. Deutsch. Crypt. Fl. n. 1344, 1554
Nemaspora Juglandis Schum. Saell. II. p. 178. — Peritheciis circinantibus, epidermide bullato-inflata tectis; cirris guttiformibus vel elongatis, crassis, atris.

Hab. in ramis corticatis Juglandis in Germania. — «An *Melanconii* forma?».

82. **Cytospora juglandina** Sacc. Mich. II. pag. 264. — Stromatibus atris, subcutaneis, epidermide quandoque fissa tectis, plurilocularibus; sporulis cylindræis, rectiusculis, 6-7 \approx 1, basidiis filiformibus, 10-15 \approx 1, suffultis; cirris non visis. 1555

Hab. in cortice ramorum Juglandis regiæ, Padova Italiæ bor. — Probe diversa a *Cyt. Juglandis* Rabh.

83. **Cytospora elegans** Ces. Flora 1854, pag. 205, Kl. Herb. Myc. 1556
n. 1868. — Tecta vel erumpens; stromate obsoleto; peritheciis 6-10; sporulis (non descriptis).

Hab. in ramis Platani, socia *Massaria Platani*, Vercelli Italiæ bor.

84. **Cytospora Platani** Fuck. E. F. N. n. 434, p. 52. — Peritheciis elongatis, numerosis, nigris, gelatinosis epidermidem tuberculoso-inflantibus, conceptaculo nullo, cirris tenuissimis, flexuosis, longis, candidis; sporulis allantoideis, 6-8 μ . longis. 1557

Hab. in ramis Platani junioribus pr. Wiesbaden Germaniæ.

85. **Cytospora personata** Fr. *Valsæ Auerswaldii* stat. spermog. Nits. 1558
Pyr. Germ. p. 225. — Stromatibus e basi orbiculari conicis, truncatis vel fere hemisphæricis, pustulatis, disco orbiculari, albido, poro vulgo unico, spurie plurilocularibus; sporulis elongatis, curvulis, 6-8 \approx 2, tandem in cirros rubro-hyacinthinos espulsis.

Hab. in ramis Rhamni Frangulæ, rarius in Fago, Betula, Malo et Salice caprea in Germania, Fennia, Italia bor.

86. **Cytospora Acharii** Sacc. *Eutypæ Acharii* stat. spermog. Nits. 1559

Pyr. Germ. p. 130. — Peritheciis in stromatibus longe lateque effusis immersis, sessilibus, e basi ovali elliptica vel suborbiculari convexis, depressis, atris, plerumque dense aggregatis, unilocularibus; sporulis cylindricis curvulis, hyalinis, in sterigmatibus brevibus, basi ramosis, solitarie acrogenis, tandem in cirros albidos protrusis.

Hab. in ramis crassioribus decorticatis Fagi, Pseudoplatani, Populi, Carpini, Pruni in tota Europa et Amer. bor.

87. **Cytospora flavo-virens** Sacc. *Eutypæ flavo-virescentis* st. sperm. 1560
Nits. Pyr. Germ. p. 139. — Peritheciis in stromatibus concoloribus immersis, e basi suborbiculari depresso conicis, parietibus carnis; sporulis cylindricis, curvatis, hyalinis, subsessilibus, adglutinatis, denique cirrose protrusis.

Hab. in corticibus et ligno Fagi, Quercus, Carpini, Salicis, Aceris, Pruni, Rhamni, Ribis, Populi, Rosæ, Betulæ etc. in tota Europa.

88. **Cytospora leucosperma** (Pers.) Fr. S. M. II. p. 543, *Næmaspora leucosperma* Pers. Syn. p. 108. — Stromate obsoleto, cellulis nigris circinantibus, confluentibus, disco plano albido, cirro albo.

Hab. ad ramos Prunorum, Fagi, Aceris, Carpini, Rosæ, Aquifolii in Suecia, Germania, Gallia, Italia, Austria, Amer. bor. — In forma **Aceris campestris** vidi: stromata subunilocularia, sed majuscula et sinuosa; sporulas allantoideas, 3,5-4 \approx 0,5-1; basidia verticillato-ramosa, longiuscula. — Vix nisi cirri colore a proximis differt. Cellulæ in corpus lobatum nigro-marginatum confluent; discus variat albus, lutescens, ostiolo centrali subprominente.

89. **Cytospora ceratophora** Sacc. Mich. I. p. 519. — Stromatibus depresso-conicis, subcutaneo-erumpentibus, plurilocularibus, olivatro-farctis; sporulis botuliformibus, 4-5 \approx 1, hyalinis, basidiis simplicibus vel verticillato-ramosis, acicularibus, 20-50 μ . altis suffultis.

Hab. in ramis corticatis Quercus, Sorbi, Castaneæ, Fraxini in Italia, Austria, Gallia. — *Valsæ ceratophoræ* spermog.

90. **Cytospora ambiens** Sacc. Mich. I. p. 519, *Valsæ ambientis* sperm. 1563
Nits. Fuck. — Stromatibus conico-depressis, gregariis, subcutaneo-erumpentibus, atro-griseis, disco pallidiore; sporulis botuliformibus, 6 \approx 1, hyalinis, sterigmatibus acicularibus, fasciculatis fultis.

Hab. in ramis corticatis Aceris, Ulmi, Fagi, Populi, Coryli, Castaneæ, Rubi, Betulæ, Fraxini, Quercus in Italia, Germania, Gallia, Austria, America australi.

91. **Cytospora chilensis** Mont. Syll. n. 922, Fl. Chil. VII. p. 478, t. 9, 1564

f. 11. — Maculis pallescentibus; peritheciis crassiusculis in cortice interiore nidulantibus subsimplicibus, intus amfractuoso-columellatis, disco erumpente ferrugineo; sporophoris inter cellulas parietales vesiculosas elongatis, sporulas lineares altero fine incurvas fulcientibus.

Hab. ad cortices arborum, in provinciis meridionalibus Chiles (GAY).

92. **Cytospora hysteriformis** (Pr.) Sacc. *Hypoplasta Hystericeforme* 1565

Preuss F. Hoyersw. n. 288. — Superficialis extra carbonacea atra, intus subcarnosa alba, venis atris penetrata; peritheciis oblongis longitudinaliter et irregulariter plicatis, atris, in carne perithecii radiis atris e peripheria oriundis; nucleo sporularum mucoso albo; sporulis fusiformibus utrinque rotundatis, subcurvatis, albis, numerosis, continuis.

Hab. in ligno arborum frondosarum (in dejecta fibula lignea, Waschklammer) in Hoyerswerda.

93. **Cytospora Curreyi** Sacc. Mich. II. p. 265, *Valsæ Curreyi* stat. 1566

sperm. Nits. Pyr. Germ. p. 201. — Stromatibus e basi orbiculari, rarius ovali conico-truncatis vel fere hemisphæricis, protuberantibus, lateribus peridermio stellato-fisso, adhærente tectis, in disculo albido papilla poro minutissimo-pertusa, unica, centrali vel duabus tribusve instructis, multilocularibus, loculis numerosis, radiatim vel sine ordine dispositis; sporulis cylindricis, curvulis, 3-5 = 1; sterigmatibus subsimplicibus, 20-24, immo 32 μ . longis.

Hab. in ramis Laricis, Abietis excelsæ et Pini silvestris in Britannia, Gallia, Germania, Italia.

94. **Cytospora Abietis** Sacc. *Cyt. Pini* Fuck. nec Desm. *Valsæ Abie-* 1567

tis stat. sperm. Nits. Pyr. Germ. p. 186. — Stromatibus exiguis, collo crasso rotundato vel truncato, ex griseo vel luteo fuscescente poroque angusto unico, rarius pluribus, aperto instructis, multilocularibus, loculis minimis, sine ordine denseque stipatis, cirris globulosis sordide flavis; sporulis exilissimis, cylindricis, curvulis, 3-4 = 1; sterigmatibus 12-16 μ . longis, parce ramosis.

Hab. in ramis corticatis Abietis excelsæ et Laricis in tota fere Europa.

95. **Cytospora Friesii** Sacc. *Valsæ Friesii* stat. spermog. Nits. Pyr. 1568

Germ. p. 203. — Stromatibus phyllogenis, exiguis, conico-truncatis, parte inferiore folii parenchymati immersa, superiore erumpente, disculo instructis ex cinereo nigrescente, papilla minutissima, atra, poro angustissimo pertusa, singula, raro duabus ornatis;

sporulis cylindricis, curvulis, 4-5 = 1; sterigmatibus brevibus, parce ramosis.

Hab. in ramulis Abietis pectinatae in Gallia, Germania, Belgio.

96. **Cytospora Kunzei** Sacc. *Valsæ Kunzei* stat. sperm. Nits. Pyr. 1569

Germ. pag. 230. — Stromatibus poro in disco subrotundo, luteolo unico, centrali, rarius pluribus apertis, multilocularibus, loculis radiatim dispositis; sporulis cylindricis, curvulis, 5 = 1, in cirros lutescentes tandem propulsis; sterigmatibus breviusculis, 20 μ . longis, parce ramosis.

Hab. in ramis corticatis Abietis pectinatae et excelsae in Germania, Gallia, Helvetia et Britannia.

97. **Cytospora pithyophila** West. Bull. Soc. Belg. t. V. n. 1, cum icone. 1570

— Stromatibus subcutaneis, conicis, disco erumpente atro, poro centrali pertuso; cirro albido; sporulis perexiguis, 2,5-3 = 1.

Hab. in ramis Abietum in dumis Blankenberghe Belgii.

98. **Cytospora Pini** Desm. Nouv. Not. 1843, p. 46, *Cyt. pinicola* West. 1571

Exs. n. 933. — Immersa, conceptaculo nullo, loculis nigris oblongis, numerosis irregulariter circinantibus, disco erumpente plano fuligineo; ostioliis prominulis, atris, nitidis; cirris sulfureis, dein citrinis; sporulis (ex Nitschke) cylindræis, subrectis, minimis, 4 = 1; basidiis ramulosis filiformibus, 24 μ . longis.

Hab. in cortice truncorum Pini silvestris in Gallia et Belgio. — Spermogonium *Valsæ Pini*. Sec. West. sporulæ *Cyt. pinicolæ* suæ habent longitudinem 6,5 μ .

99. **Cytospora Saccardiana** Roum. et Therry Rev. Myc. IV. p. 153. 1572

— Pustulis convexo-applanatis, naviculiformibus, numerosis et approximatis; stromatibus oblongis, irregularibus, pluri- (2-6-)locularibus, erumpentibus; sporulis minutissimis cylindricis, obtusis, leniter curvatis, in cirros ochraceo-albos protrusis, 4 μ . longis.

Hab. in ligno denudato Pini silvestris in Gallia. — Sec. auctores satis differt a *C. Pini* et *C. pinicola*.

100. **Cytospora Mougeotii** Lév. in Moug. Vog. n. 1272. — Stromatibus 1573

gregariis vel subsparsis, innatis leniterque prominulis, conicis, minutis, intus pluricellularibus griseis, disco angusto atro; sporulis allantoideis, hyalinis, 5-7 = 0,7-1, basidiis duplo- vel triplo longioribus suffultis.

Hab. ad faciem internam corticis truncorum Abietis pectinatae in Vogesis (Mougeot).

101. **Cytospora Dubyi** Sacc. *Valsæ Dubyi* stat. spermog. Nits. Pyr. 1574

Germ. p. 187. — Stromatibus e basi orbiculari depresso convexis, innato-erumpentibus, multilocularibus, loculis circinatim dispositis, minutis, disco exiguo, albido-cinereo poroque unico, centrali instructis; sporulis cylindricis, curvulis, $5 \approx 1$; sterigmatibus breviusculis, subsimplicibus, tenuissimis.

Hab. in ramulis et foliis Juniperi communis in Helvetia et Germania.

102. **Cytospora cenisia** Sacc. *Valsæ cenisiæ* stat. sperm. Nits. Pyr. 1575

Germ. p. 185. — Stromatibus ampulliformibus, nunc in collum, poro unico pertusum, conico-attenuatis, nunc vero collo 3-5-angulari, poris circa medium majorem, 3-5 minoribus pertusis prædito, pauci-ocularibus, locellis, 4-6, radiatim dispositis, majusculis; sporulis cylindricis, hyalinis, nonnihil curvatis, 5-7 \approx 1,5; sterigmatibus subsimplicibus, 16-24 μ . long.; cirris filiformibus, pallide flavis.

Hab. in cortice Juniperi communis et virginianæ in Italia, Germania, Fennia, Amer. bor.

103. **Cytospora Taxi** Sacc. *Valsæ Taxi* stat. spermog. Fuck. Symb. 1576

Myc. App. I. p. 316. — Stromatibus pustulatis, 2-3 mill. latis, convexis seu lato-obtuso-conicis, sæpe confluentibus, poro centrali minuto in disco orbiculari, plano, sordido, intus multilocularibus, corneis, griseis; cirris longissimis, piliformibus, contortis, aureis; sporulis cylindræis, curvatis, continuis, 8 \approx 1,5.

Hab. in ramis siccis corticatis Taxi baccatæ, Reichartshausen in Rhenogovia.

104. **Cytospora Thujæ** Sacc. et Ell. Mich. II. p. 573. — Stromatibus 1577

emergentibus, nigris, conoideis, intus paucicellularibus; ostiolis prominulis, brevibus sulcatis; sporulis allantoideis, 5 \approx 1-1,3, hyalinis, basidiis paulo longioribus, subfusoides, simpliciter parceque verticillatis suffultis.

Hab. in cortice interiore Thujæ, Newfield, New Jersey Amer. bor. (ELLIS). — A *Cyt. Pini* satis differre videtur, an e loco?

105. **Cytospora parva** B. et C. North Amer. Fungi n. 460. — Pustulis 1578

minutis, apice tantum punctiformi erumpentibus; peritheciis globosis; sporulis oblongis, angustis, enucleatis, 7 μ . longis.

Hab. in ramis Robiniæ in Carolina inf. Amer. bor.

106. **Cytospora Robiniæ** Schw. Syn. Am. bor. n. 2157. — Tuberculis 1579

majusculis, fusco-badiis, quadrato-elevatis ex epidermide prorumpentibus stellatim fissa, multis aggregatis cingentibus ramulos, apice subostiolato irregulariter depresso; intus nigrescit; cirris pallidis.

Hab. non rara in ramulis Robiniæ in Amer. bor., vix *Cyt. coccinea* Fr.; nam cirrus omnino aliter coloratus.

107. **Cytospora coccinea** (Reb.) Fr. S. M. II. p. 541, *Neomaspora* 1580
coccinea Reb. Neom. p. 339. — Immersa; ostiolo subprominente nigrescente; cirris filiformibus coccineis.

Hab. in ramis siccis Robiniæ Pseudacaciæ in Germania.

108. **Cytospora orthospora** B. et C. North Amer. Fungi n. 458. — 1581
Pustulis parvis, demum erumpentibus planis; peritheciis basi plano-dilatatis; sporulis lineari-oblongis, 10 μ . longis.

Hab. in ramis Robiniæ in Pennsylvania et New Jersey Americæ borealis.

109. **Cytospora Sarothamni** Sacc. *Eutypæ macrosporæ* stat. sperm. 1582
Nits. Pyr. Germ. p. 145. — Stromatibus tuberculiformibus depresso convexis, atris, sessilibus, sparsis vel dense congregatis, unilocularibus, vertice tandem poro vel rima minuta deliscentibus; sporulis cylindricis, nonnihil curvatis vel subrectis, subhyalinis, in sterigmatibus brevibus, dense cæspitosis, acrogenis, 7-10 \approx 2.

Hab. in ramis crassioribus Sarothamni vulgaris prope Münster Germaniæ.

110. **Cytospora Syringæ** Sacc. *Valsæ Syringæ* stat. spermog. Nits. 1583
Pyr. Germ. p. 189. — Stromatibus exiguis, per peridermii rimas minutas ac longitudinaliter directas erumpentibus, multilocularibus, loculis confertissime et sine ordine stipatis, minutissimis, foramine plerumque unico, in disco ex griseo sordide fuscescente centrali apertis; sporulis cylindricis, curvulis, 5 \approx 1; sterigmatibus densissime cæspitosis, subramosis, tenuibus, usque ad 60 μ . longis.

Hab. in ramis Syringæ vulgaris in Germania et Italia bor.

111. **Cytospora minuta** Thüm. in Myc. Univ. n. 890. — Pseudo- 1584
peritheciis (stromatibus?) gregariis, erumpentibus, elevatis, hemisphæricis, primo tectis, demum mox liberis, atris, cirros candidos propellentibus; sporulis minutis, cylindræis, rectis, utrinque obtusatis, hyalinis, 4-5 \approx 1-1,5.

Hab. in ramulis emortuis, præcipue tenuibus sed adhuc pendulis, Fraxini excelsioris, Bayreuth Bavariciæ.

112. **Cytospora elæina** Mont. Cent. VI. p. 87, in Ann. 3, XII. p. 305, 1585
et Syll. n. 926. — Peritheciis gregariis, cortice tectis, globoso-depressis, pachydermaticis, subtus collabenti-umbilicatis, intus cellulosis, atro-farctis; ostiolo erumpente nigro; cirro crasso, atro, nitido; sporophoris apice fasciculato-ramosis, 40 μ . longis; sporulis minutissimis achromaticis, 5 \approx 2.

Hab. in ramulis Oleæ europææ, Montaud-lez-Miramas Galliæ australis (CASTAGNE).

113. **Cytospora extensa** Sacc. Mich. II. p. 344. — Stromatibus gre- 1586
gariis, peridermio tectis, globulosis, intus pluri-ocularibus, atris;
disco vix erumpente; sporulis allantoideis, curvulis, utrinque ro-
tundatis, $5 \approx 1$, hyalinis, basidiis fasciculatis e strato prolifero fer-
rugineo enatis, acicularibus, $15 \approx 1$, suffultis.

Hab. in ramis corticatis Rhamni alpinæ in Gallia australi.
— Forte *Eutypellæ extensæ* (Fr.) spermogonium.

114. **Cytospora epileuca** Sacc. Mich. II. p. 265. — Stromatibus glo- 1587
boso-depressis, initio epidermide velatis, dein suberumpentibus, di-
sco complanato, albo-furfurello, 2-4-ocularibus; sporulis allantoi-
deis, $9-11 \approx 1\frac{1}{2}-1\frac{3}{4}$, utrinque obtusiusculis, curvatis, nubilosis, hya-
linis, basidiis fasciculatis, simplicibus, filiformibus, $25-30 \approx 1$, e basi
prolifera flavicante oriundis suffultis.

Hab. in ramis corticatis Rhamni catharticæ in Italia bor.

115. **Cytospora Ceanothi** Schw. Syn. Amer. bor. n. 2158. — Con- 15 88
ceptaculo nullo; cellulis fuliginis circinantibus in massa corticali,
formante tuberculum ovatum, subelevatum sub epidermide; disco
in centro inæquabili, cirro sordide albo deciduo; gelatina in cel-
lulis cornea indurata; minutissima, vix semilineari diametro, sed
frequentissime prorumpens ex corticis rimis.

Hab. frequens in virgultis emortuis Ceanothi, Bethlehem
Americæ bor.

116. **Cytospora ericeti** Sacc. Fungi Gall. Ser. VI. n. 2252. — Peri- 1589
theciis hinc inde aggregatis, subcutaneo-erumpentibus, papillatis,
atris, $\frac{1}{4}$ mill. d.; sporulis cylindricis, curvis, $11-14 \approx 2$, hyalinis;
basidiis bacillaribus brevioribus.

Hab. in trunco corticato Ericæ, Rouen Galliæ (MALBRANCHE).

117. **Cytospora Ribis** Ehrenb. Sylv. Berol. p. 28, Fr. S. M. II. p. 545. 1590
— Stromate crasso, atro, grumoso; ostiolo rudi ex epidermide de-
mum emerso; cirro rudi aureo; sporulis oblongo-allantoideis, $3 \approx 1$;
basidiis longis ramosis.

Hab. in ramis Ribis rubri in Germania, Gallia, Belgio. —
Forte spermogonium *Eutypellæ Brunaudianæ*.

118. **Cytospora atrovirens** Fr. S. M. II. p. 545. — Stromate mem- 1591
branaceo, disco erumpente; cirris nigro-viridibus.

Hab. in ramis alneis in Kamtschatka (WORMSK.), et in ramis
Corni albæ in Belgio (LIMMINGHE). — Cellulæ in orbem depres-
sum collectæ, membranula cinctæ, gelatina nigro-viridi glomerata

vel per multas spiras demum inspissatas diaphanas varie flexas e centro pertuso erumpente.

119. **Cytospora chloroglæa** B. et C. North Amer. Fungi n. 464. — 1592
Pustulis oblongis hysteriiformibus, apice planis; sporulis allantoi-
deis, curvulis, minutissimis, chlorinis.

Hab. in ramis Corni sericæ in montibus New York Am. bor.

120. **Cytospora Tiliæ** Sacc. Mich. I. p. 519. — Conceptaculis pluri- 1593
locularibus, innato-erumpentibus, laxè gregariis, 1-2 mill. diam.,
stromate flavo interspersis; loculis inæqualibus griseis; sporulis
botuliformibus, 7-8 \times 1, hyalinis, in cirros varios succineos deni-
que expulsis.

Hab. in ramis Tiliæ europææ prope Rouen Galliæ (LETEN-
DRE). — A *Cyt. carphosperma* Fr. valde diversa.

121. **Cytospora carphosperma** Fr. S. M. II. p. 545. — Stromate ob- 1594
soleto, cellulis nigris circinantibus, disco sordido; cirro citrino, dein
subcroceo; sporulis minutissimis, allantoides, 5-6,5 μ . longis.

Hab. in ramis Tiliæ europææ et Piri Mali in Suecia,
Germania, Italia, Austria, Gallia. — Pustulæ orbiculatæ, depressæ,
nigræ, in cortice interiore fibroso nidulantes, stromate ceraceo te-
gente, formantes discum erumpentem rotundum vel ellipticum, pla-
num, sordidum, sed expallentem, centro ostiolo nigro perforatum;
dissectæ monstrant cellulas numerosas, oblongas, difformes, circa
perithecium centrale globosum aggregato-circinantes, plerumque
cera concolori farctas, nullo stromate cinctas. Ostiolum nunc po-
rosum, nunc papilliforme. Gelatina straminea, sicca lutescens.

122. **Cytospora Gordoniæ** B. North Amer. Fungi n. 463. — Pustulis 1595
minutis immersis; sporulis brevibus, fortiter curvatis, utrinque
angustioribus.

Hab. in pedunculis Gordoniæ lasianthæ in Carolina supe-
riore Americæ bor.

123. **Cytospora Aquifolii** Fr. in Duby Bot. Gall. II. p. 725. — Pe- 1596
ritheciis nigris circinantibus, conceptaculo nullo, disco convexo gri-
seo, ostiolo centrali prominulo aterrimo.

Hab. ad corticem Ilicis in monte Vogeso (MOUGEOT).

124. **Cytospora Hippophaës** Thüm. F. Austr. n. 282. — Peritheciis 1597
(stromatibus?) sparsis, magnis, epidermide tectis, demum erumpen-
tibus, atris; sporulis cylindræis, rectis, hyalinis, minimis.

Hab. in ramis truncisque emortuis Hippophaës rhamnoidis
prope Krems Austriæ infer.

125. **Cytospora ilicina** Sacc. *Valsæ Aquifolii* stat. sperm. Nits. Pyr. 1598

Germ. p. 231. — Stromatibus subcutaneo-erumpentibus, pustulatis, multilocularibus, loculis minutissimis numerosis, monostiche stipatis, poro in disculo orbiculari medio unico apertis; sterigmatibus subsimplicibus, eseptatis, 20-24 \approx 2; sporulis cylindricis, curvulis, vel subrectis, subhyalinis, 5-7-8 \approx 1.

Hab. in ramis emortuis Ilicis Aquifolii prope Münster Germaniæ.

II. *Foliicolæ et fructicolæ.*

126. **Cytospora Pinastri** Fr. S. M. II. p. 544. — Stromatibus innato-erumpentibus conicis, plurilocularibus, loculis nigris circinantibus, disco subrotundo tuberculoso atro, cirro rudi lacteo; sporulis allantoideis, 5 \approx 1,3, hyalinis; basidiis fasciculatis, acicularibus, 20-25 \approx 1. 1599

Hab. in foliis Pini silvestris, Abietis excelsæ et pectinatae etc. in Gallia, Suecia, Germania, Italia, Belgio. — Loculi in ipso folii parenchymate nidulant, irregulares. Discus valde prominens, opacus, rugosus, dein planiusculus cinereo-niger, ostiolo valde prominulo.

127. **Cytospora Oleæ** De Not. Micr. Dec. 5, n. VIII. — Epiphylla, maculis fuscescentibus innata, punctiformis; stromatibus orbicularibus, 15-20-locellatis, loculis seu peritheciis convergentibus, compressis, subpyramidatis; ostiolis minutis, pertusis, junctis; nucleo albido; sporulis cylindræis, minutissimis, utrinque obtusiusculis, hyalinis. 1600

Hab. in foliis siccis Oleæ europææ prope Genova Ital. bor. — Ab affini *C. foliicola* peritheciis magis discretis, sporulis majoribus distinguenda.

128. **Cytospora phyllogena** Penz. et Sacc. Fl. M. Gener. n. 119. — Conceptaculis hypodermicis, dein prorumpentibus, plurilocularibus, nigris, disco albo; sporulis cylindricis, continuis, rectis vel leniter curvulis, utrinque rotundatis, 10-12 \approx 2,5-3, hyalinis, eguttulatis, mucro abundanti insitis; basidiis obsoletis. 1601

Hab. in foliis putrefactis Rubi sp. in Monte Generoso. — A *C. Laurocerasi* et *C. foliicola* sporulis longioribus, basidiis obsoletis diversa.

129. **Cytospora foliicola** Libert. Exs. n. 64. — Stromatibus subcutaneo-erumpentibus, conico-depressis, atris, paucilocularibus; disco pallido; poro communi centrali; cirro albido; sporulis botuliformibus, 7 \approx 1, hyalinis, basidiis filiformibus, fasciculatis æquilongis fultis. 1602

Hab. in foliis Hederæ, Vincæ, Aceris, Quercus, Evonymi, Cratægi, Smilacis in Germania, Gallia, Italia, Algeria. — Sec. Desm.: sporulæ utrinque obtusæ, 10 μ . long. — Var. **Kalmiæ** Sacc. Mich. II. p. 142 (*Ceuthospora*): stromate pulvinato-conico, intus paucilocellato, $\frac{1}{2}$ - $\frac{3}{4}$ mill. diam.; sporulis cylindroidis, 10-12 \approx $1\frac{1}{2}$ - $1\frac{3}{4}$; basidiis teretibus, 5-6 μ . long. subcurvis suffultis. In pag. inf. foliis Kalmiæ latifoliæ in Carolina.

130. **Cytospora Laurocerasi** Fuck. En. F. Ness. n. 437. — Stromate 1603
conico, obtuso, nigro; disco albo; cirris longis, rubescentibus; sporulis botuliformibus, 6-8 \approx 1, in sterigmatibus acicularibus, verticillato-ramosis, triplo longioribus acrogenis.

Hab. in foliis putrescentibus Pruni Laurocerasi in Germania, Gallia, Italia, Austria. — ***ramulorum** Sacc.: sporulis allantoidis, 5-6 \approx 1, basidiis breviusculis ramulosis suffultis. — In ramulis Pruni Laurocerasi in Gallia.

131. **Cytospora Metrosideri** Rabenh. Hedw. 78, p. 115. — Hypophyl- 1604
la; peritheciis 5-6 connatis, in foliorum parenchymate nidulantibus, epidermide tectis, demum nudis; disco albido, cirris tenuibus, luteolo-pallidis; sporulis bacilliformibus, leviter curvatis, hyalinis, ad 6 μ . longis.

Hab. in foliis Metrosideri, Auckland (H. KRONE).

132. **Cytospora piricola** West. in Bull. Ac. Belg. t. XIX. — Peri- 1605
theciis flavicantibus, compressis, exiguis, pustulas subrotundas, immersas, disco albido, poro pertuso coronatas formantibus; cirro rubro-carneo, torto; sporulis perexiguis, ovoideo-cylindricis, 2-guttulatis.

Hab. in fructibus Piri japonicæ, Namur Belgii.

133. **Cytospora palmicola** B. et C. Exot. Fungi, Schweinitz. Herb. 1606
p. 280. — Nigra nitida, epidermide tecta; loculis superficie stromatis nidulantibus globosis; sporulis lineari-oblongis, curvulis, minutissimis, 2,8-3 μ . long.

Hab. in fructibus Cocos nuciferæ, St. Kitts.

III. Herbicolæ.

134. **Cytospora tithymalina** Pass. et Beltr. F. Sicul. n. 29. — Con- 1607
ceptaculis conoideis, subcutaneis plurilocularibus, disco planiusculo fusco per epidermidem fissam erumpenti; sporulis minutissimis, cylindricis, curvulis, hyalinis, 3- $3\frac{1}{2}$ μ . long., basidiis acicularibus longiusculis fultis.

Hab. in ramis aridis Euphorbiæ dendroidis (?) cum *Leptosphaeria sacco*, Monostalla Siciliae.

135. **Cytospora Libertella** Dur. et Mont. Fl. Alg. I. p. 316, sec. Syll. 1608
n. 924. — Peritheciis tenuibus, in cortice interiore nidulantibus,
simplicibus, anfractuosis; sporophoris longis, sporulisque lineari-
bus, curvatis, hyalinis; cirris.....

Hab. in caulibus emortuis Salsolæ oppositifoliæ, Mostaganem Algeriæ (DURIEU).

IV. *Species imperfecte descriptæ.*

136. **Cytospora Dahliæ** Peyl in Lotos 1857, p. 67, t. II. f. 11. — In 1609
Bohemia.
137. **Cytospora Peylii** Rabenh. in Lotos 1857, p. 28, n. 6, f. 6. — 1610
In Bohemia orient.
138. **Cytospora Sphærule** Duby Bot. Gall. II. p. 725. — In Gallia. 1611
139. **Cytospora endophylla** Fr. Summa p. 413. — In foliis Vacci- 1612
nii Vitis idææ in Suecia.
140. **Cytospora laxa** B. et C. North Amer. F. p. 80. — In Caly- 1613
cantho in Carolina inf.
141. **Cytospora coryneoides** B. et C. North Amer. F. p. 80. — In 1614
Vite Labrusca Amer. bor.
142. **Cytospora pustulata** B. et C. North Amer. F. p. 80. — In ra- 1615
dicibus Quercus albæ Amer. bor.
143. **Cytospora Micheneri** B. et C. North Amer. F. p. 80. — In 1616
Fraxino Amer. bor.
144. **Cytospora Ailanthi** B. et C. North Amer. F. p. 80. — In Ai- 1617
lantho Amer. bor. — Hæc species et quatuor præcedentes spo-
rulis allantoideis instructæ sunt, sed parum distinctæ.

CEUTHOSPORA Greville Sc. Cr. Flor. n. 9. (Etym. *ceutho* abscondo, et *spora*). — Stroma innato-erumpens, conico-truncatum, subcoriaceum, intus pluri-loculare, rarius sub 1-loculare; ostioli in unum centrale sæpe confluentibus. Sporulæ oblongo-cylindraceæ, sæpius rectiusculæ, hyalinæ, stipitatæ, subinde cirrose expulsæ. — A *Cytospora* stromate sæpe duriore et magis regulari sporulisque rectiusculis vix differt. An satis? — Species nonnullæ *Coccoboli* et *Helicoboli* Wallrothianæ a beato Rabenhorst ad *Ceuthosporam* ductæ inter genera dubia relegandæ sunt.

1. **Ceuthospora phacidioides** Grev. Sc. Cr. Flor. V. tab. 253, *Phaci-* 1618
dium multivalve Schmidt., *Xyloma multivalve* DC., *Sphaeria He-*

deræ Fr. var. β ., *Sphæria bifrons* Sow., *Cryptosphæria bifrons* Grev. Fl. — Stromatibus sparsis, innatis, depressis, piceis, nitidis e 3-7 peritheciis dense coalitis compositis, ostiolo in centro disci, albo furfuraceo, epidermide laciniata cincto; sporulis teretiusculis, rectis, obtusis; cirro albido.

Hab. in foliis Ilicis Aquifolii in Gallia, Britannia, Germania, Italia, Austria. — F. **Citri** Penz. Mich. II. p. 433, *Chætophyrena Hesperidum* Pass.: peritheciis hypodermeis, binis, ternis vel pluribus dense coalitis, apice paullum setulosis; basidiis cylindraceis, simplicibus vel parce ramosis, hyalinis, 9-10 = 3,5-4; sporulis numerosissimis, cylindræis, rectis, utrinque apice rotundato, 13-14 = 3,5-4, hyalinis. — In foliis putridis Citrorum, Porto Maurizio Liguriæ occid. (G. GENTILE), Coimbra Lusitaniæ (MESNIER).

2. **Ceuthospora calathiformis** Fuck. Symb. p. 398. — Peritheciis carbonaceis, minutis, irregularibus, astomis, 4 = 12 in acervulum $\frac{1}{2}$ lin. diam., densum, orbicularem congestis, marginalibus majoribus prominulis, atris; sporulis cylindræis, rectis, 10-14 = 2.

Hab. in ramulis siccis Salicis auritæ, rarius in Rhenogovia.

3. **Ceuthospora glandicola** S. R. B. Misc. Mycol. p. 19. — Stromatibus sparsis, e basi subplana depresso conicis, subsuperficialibus, atris, nitidulis, $\frac{1}{3}$ mill. lat. intus 2-4-loculatis; contextu minute celluloso rufo-fusco; sporulis fusiformibus, curvulis, utrinque acutis, hyalinis, 15-17 = 1,5; basidiis obsoletis.

Hab. in glandibus emortuis quercinis prope Bruxelles Belgii.

4. **Ceuthospora subcorticalis** Fuck. Symb. p. 398. — Peritheciis carbonaceis, fragilissimis, minutis, globosis, 4-12, in stromate lenticulari, rotundato, adnato, aterrimo, circinante dispositis; ostioliis prominulis, punctiformibus; sporulis anguste cylindræis, rectis, obsolete (et spurie?), 2-3-septatis, 10 = 2, hyalinis, in pulvere albo expulsis.

Hab. in cortice interiore Betulæ albæ in Rhenogovia.

5. **Ceuthospora Cookei** Thüm. F. Amer. n. 17. — Stromatibus amphigenis sed plerumque hypophyllis, pustulas minutissimas, dense gregarias, subprominentes, atras, hemisphæricas formantibus; sporulis cylindræis, utrinque rotundatis vel vertice leniter acutatis, simplicibus, enucleatis, hyalinis, 15 = 4.

Hab. ad folia decidua Cerasi carolinianæ, Aiken in Carol. austr. Amer. bor. (H. W. RAVENEL). — *C. phacidiodi* Grev. proxima sed diversa.

6. **Ceuthospora Oleæ** Kalch. et Cooke Grev. 1880, p. 59. — Epiphyl- 1623

la; maculis orbicularibus, fuscis; peritheciis depressis, rimose dehiscentibus; sporulis cylindricis, utrinque obtusis, hyalinis, $30 \approx 3,5$.

Hab. in foliis Oleæ capensis in Africa australi.

7. **Ceuthospora Alaterni** Thüm. Fung. Litor. n. 369. — Stromatibus 1624
epi-raro etiam hypophyllis, dense gregariis, pro ratione magnis, subconico-emersis, postremo fere lenticularibus, disco pallido, nigris, sine macula distincta; sporulis bacillaribus, rectis, utrinque obtusis, enucleatis, continuis, hyalinis, $12-16 \approx 2$.

Hab. in foliis languidis et aridis Rhamni Alaterni, St. Nicolò prope Parenzo in Istria.

8. **Ceuthospora brevispora** Cooke et Harkn. Grev. 1881, p. 84. — 1625
Epiphylla; peritheciis (stromatibus?) applanatis, in lacinias parvulas dehiscentibus; nucleo subæruginoso; sporulis cylindricis, obtusis, hyalinis, continuis, $10-14 \approx 3$.

Hab. in foliis Heteromeles arbutifoliæ in California Americæ borealis.

9. **Ceuthospora monocarpa** Mont. Fl. Chil. VII. p. 480, Syll. Crypt. 1626
n. 928. — Hypophylla, punctiformis, submonocarpa; peritheciis solitariis, stromate parenchymatico orbiculato, atro-marginato immersis, ostiolo cuticulam stellato-fissam sublevante; sporulis linearibus, hyalinis.

Hab. in foliis coriaceis, Chile (GAY).

10. **Ceuthospora minima** Cooke et Hark. in Grevillea. — Amphigena, 1627
parvula, convexa, atra, nitida, $\frac{1}{6}-\frac{1}{5}$ mill. diam., sparsa vel in maculas irregulares aggregata, demum sursum erumpens; sporulis bacilliformibus, obtusis, hyalinis, $20 \approx 1$; sporophoris brevibus, simplicibus.

Hab. in foliis Vaccinii in California Amer. bor.

11. **Ceuthospora Lauri** Grev. Scot. Fl. t. 254. — Stromate obtuse 1628
conico, epidermide 3-4-radiatim fissa cincto, sub-uniloculari, brunneo-nigro; sporulis in basidiis ramulosis, acrogenis, botuliformibus, $4-5 \approx 1-1\frac{1}{2}$, hyalinis.

Hab. in foliis emortuis Lauri nobilis in Italia, Belgio, Austria et Britannia. — Forma **ramulicola** (Vize F. B. n. 104) paululum recedit peritheciis sporulisque paulo majoribus, $5-6 \approx 1\frac{1}{2}$. In ramulis Lauri in Britannia.

12. **Ceuthospora Liriodendri** West. Bull. Ac. Roy. Belg. II. t. XII. 1629
n. 7. — Stromatibus minutis, immersis, dein erumpentibus et fere liberis, sparsis, atro-nitidis; ostiolo papillato, collo longiusculo; nucleo albido; sporulis elongatis, hyalinis, 2-guttulatis.

Hab. in fructibus Liriodendri Tulipiferæ in hortis Namur Belgii. — «An *Ceuthospora* genuina?».

13. **Ceuthospora Diospyri** Wint. Hedw. 1881, p. 148. — Hypophylla, 1630
maculas immarginatas, atras, sparsas formans; stromatibus innato-
erumpentibus, atris; sporulis cylindræis rectis, 12-13 = 2,5, me-
dio (spurie?) septatis, hyalinis.

Hab. in foliis Diospyri Embryoptes in horto botanico Calcutta Indiæ (S. KURZ).

14. **Ceuthospora concava** Desm. 14 Not. p. 17. — Amphigena, inna- 1631
ta, sparsa, nigra, nitida, rotunda, convexa, dein concava; nucleo
solitario, albido, gelatinoso; sporulis minutis, numerosis, oblongis,
curvulis, 2-3-guttatis, 10 = 2,5.

Hab. in foliis semiputridis Rosæ bengalensis cultæ in Gallia.

15. **Ceuthospora olivacea** Corda Icon. I. p. 24, f. 296. — Stromate 1632
immerso, plano, atro-marginato, disco luride olivaceo, carnoso, in-
tus luteo; perithecio solitario, corneo, ovoideo centrali, immerso;
collo subclavato, atro, emergente; sporulis fusoideis, 2-guttatis,
hyalino-luteolis.

Hab. in foliis semiputridis Pandani odoratissimi culti in Bohemia.

16. **Ceuthospora umbonata** Wallr. Fl. Crypt. n. 3608. — Stromati- 1633
bus synphlæodeis, primum punctiformibus, orbiculatis, atris, dein
umbonatis rugosis, punctis impressis inscriptis, vertice depresso, de-
mum irregulariter dehiscentibus.

Hab. ad folia Iberidis sempervirentis hortorum in Thuringia.

Species nomine tantum mihi notæ.

17. **Ceuthospora Asparagi** Lasch in Kl. Herb. n. 1063. — Driesen 1634
Germaniæ.

REPERTORIUM

SPHÆRIOIDEARUM HYALOSPORARUM

SECUNDUM MATRICES

Obs. Ap. indicat *Aposphaeria*. — A. *Asteroma*. — As. *Asteromella*. — C. *Chaetophoma*. — Ce. *Ceuthospora*. — Ci. *Cicinnobolus*. — Cr. *Crocicreas*. — Ca. *Cytospora*. — Cy. *Cytosporella*. — D. *Dendrophoma*. — Do. *Donthiorella*. — F. *Fuckelia*. — Fu. *Fusicoccum*. — Mu. *Muricularia*. — My. *Mycogala*. — N. *Neottiospora*. — P. *Phoma*. — Pe. *Peckia*. — Ph. *Phyllosticta*. — PhD. *Phyllosticta* (*Depazea*). — Pi. *Piptostomum*. — Pa. *Placosphaeria*. — Pl. *Plenodomus*. — Pr. *Pyrenochaeta*. — Pm. *Pyrenotrichum*. — R. *Rabenhorstia*. — Sc. *Sclerotiopsis*. — Si. *Sirococcus*. — S. *Sphaeronema*. — St. *Staurochaeta*. — V. *Vermicularia*. — Y. *Ypsilonia*.

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|--|---|
| Abies — P. 427. 429. 430. 431. 592. 601. 602. 893. 894. 898. — S. 1143. 1145. 1150. 1154. — Si. 1296. 1297. — V. 1322. — Do. 1417. — R. 1430. — Ca. 1566. 1567. 1568. 1569. 1570. 1573. 1599. | Adoxa — PhD. 359. |
| Acacia — P. 877. — Ap. 1040. — Pa. 1442. | Ægopodium — Ph. 252. — P. 1017. |
| Acanthus — P. 764. | Æsculus — Ph. 1. 3. — P. 475. 476. 919. — Ap. 1029. — V. 1324. 1325. 1336. — Fu. 1446. — Cy. 1470. |
| Acer — Ph. 56. 57. 59. 60. 61. 161. — P. 538. 539. 540. 541. 687. 909. 910. 911. — Ap. 1049. 1050. — As. 1093. — S. 1112. 1113. 1114. — C. 1189. — A. 1234. — V. 1336. — Ca. 1506. 1507. 1508. 1534. 1559. 1560. 1561. 1563. 1602. | Agapanthus — P. 941. |
| Achillea — P. 738. | Agave — P. 956. 957. |
| Aconitum — PhD. 358. — P. 795. — A. 1272. | Agrimonia — PhD. 360. |
| Acorus — Ph. 328. 329. | Agrostis — Pa. 1443. |
| Adenostyles — Si. 1298. | Ailanthus — Ph. 160. — P. 559. 560. 561. 562. 694. — Do. 1412. — Ca. 1617. |
| | Ajuga — Ph. 276. |
| | Albizzia — P. 396. |
| | Alisma — Ph. 331. 332. |
| | Allium — P. 940. — V. 1375. 1376. |
| | Alnus — Ph. 165. — P. 580. 581. 582. 583. 904. — D. 1084. — Pr. 1304. — Pa. 1445. — Ca. 1509. 1510. 1511. 1512. 1513. 1591. |
| | Aloe — Ph. 335. — P. 958. |

- Althæa — Ph. 214, 215. — P. 728, 729, 801, 922.
 Alysicarpum — P. 714.
 Amaryllis — V. 1374.
 Amelanchier — A. 1205. — S. 1121.
 Ammophila — P. 995. — A. 1286.
 Amorpha — P. 393.
 Ampelopsis — P. 466, 470, 472. — S. 1118.
 Amygdalus — Ap. 1067.
 Anamirta — Ph. 152.
 Andromeda — Ph. 120. — P. 660.
 Andropogon — P. 989. — V. 1384.
 Anethum — P. 745, 746.
 Angelica — Ph. 252. — P. 747, 751, V. 1336.
 Angræcum — A. 1279.
 Anoda — P. 725.
 Anonaceæ — P. 692. — Y. 129.
 Antirrhinum — P. 793, 802. — Ci. 1293.
 Apium — P. 745.
 Aquilegia — Ph.D. 351.
 Aretium — V. 1353.
 Arctostaphylos — A. 1231.
 Areca — Ph.D. 372.
 Aristolochia — P. 793. — V. 1366.
 Arnica — Ph. 249.
 Aronicum — Ph. 241.
 Artemisia — P. 735, 793, 829, 849, 850. — Ap. 1038.
 Artocarpus — Pr. 1308.
 Arundo — P. 987, 988. — A. 1285, 1287.
 Arum — V. 1329.
 Arundinaria — A. 1258.
 Asclepias — P. 923.
 Asparagus — P. 966, 967. — Ce. 1634.
 Asperula — Ph.D. 361.
 Asphodelus — P. 962, 963, 964. — A. 1280. — V. 1374.
 Aster — P. 848.
 Astragalus — Ph. 234. — P. 804.
 Atalantia — Ph. 53.
 Atriplex — Ph. 299. — P. 748, 829, 830.
 Arabis — P. 795.
- Aralia — P. 423, 622.
 Arauja — P. 812.
 Arbutus — Ph. 118, 119.
 Aucuba — Ph. 156, 157. — P. 684.
 Aurantiaceæ — Do. 1408.
 Ballota — Ph.D. 365. — P. 774, 775, 794. — A. 1255.
 Bambusa — P. 992.
 Batatas — Ph. 281, 282.
 Bauhinia — Ph. 47.
 Berberis — Ph. 133, 134. — P. 421, 422, 423.
 Beta — Ph. 298.
 Betonica — P. 777.
 Betula — Ph. 170. — P. 584, 585. — S. 1135, 1162. — A. 1241. — Do. 1394, 1404. — Fu. 1457, 1467. — Ca. 1514, 1515, 1526, 1527, 1534, 1558, 1560, 1563. — Ce. 1621.
 Bignonia — Ph. 143.
 Blitum — P. 748.
 Bœhmeria — P. 831.
 Borragineæ — P. 803.
 Brassica — Ph. 206, 207. — Po. 709, 710, 711. — P. 793, 802, 914, 915. — Ap. 1039. — Pl. 1101. — A. 1253.
 Bromelia — V. 1370.
 Broussonetia — P. 566.
 Buddleja — Ph. 150.
 Bumelia — P. 689, 690.
 Bupleurum — Ph. 251. — A. 1260, 1261.
 Buxus — Ph. 124, 125. — P. 524, 623, 624, 625, 626, 627. — Ca. 1502.
 Cacalia — A. 1265, 1266.
 Cactus — P. 817.
 Caladium — P. 976.
 Calamagrostis — P. 996, 997.
 Callistemon — Ph. 122.
 Calluna — P. 500, 501. — Ap. 1036, 1069.
 Calotropis — P. 535, 676.
 Caltha — Ph.D. 348.
 Calycanthus — Ph. 35. — P. 665. — Ca. 1613.

- Calystegia — Ph. 279. 280. — P. 793.
 Camellia — Ph. 129.
 Campanula — Ph. 283.
 Cannabis — Ph. 294.
 Capparis — Ph. 210. — P. 793.
 Caragana — Ph. 41. 42. — P. 610.
 Carex — Ph. 340. — P. 979. 980. —
 N. 1294. — Pr. 1314.
 Carissa — Ph. 190.
 Carlina — P. 737.
 Carolineæ — P. 678.
 Carpinus — Ph. 168. 169. — Ph.D. 371.
 — P. 589. — D. 1084. — S. 1133.
 A. 1217. — Fu. 1464. 1465. — Ca.
 1533. 1534. 1549. 1559. 1560. 1561.
 Cassia — P. 384. 876.
 Castanea — Ph. 189. — P. 902. 903.
 — D. 1083. — A. 1242. — V. 1329.
 — Do. 1403. — Fu. 1460. 1461. —
 Ca. 1562. 1563.
 Catalpa — Ph. 147. — P. 537. 793.
 926. 927. — S. 1123. — V. 1324.
 1360.
 Causcora — P. 784.
 Ceanothus — Ca. 1588.
 Cedrus — P. 891.
 Celastrus — Ph.D. 369. — P. 470.
 Celosia — Ph. 296.
 Celtis — Ph. 161.
 Centaurea — P. 742. 743. 744. 847.
 Centranthus — P. 813. — A. 1272.
 Cerasus — A. 1202. 1227. — Ca. 1488.
 1489. 1490. — Ce. 1622.
 Ceratonia — Ph. 48.
 Cerbera — Pm. 1095.
 Cercis — Ph. 36. — P. 390. 870.
 Cereus — P. 818.
 Chænomeles — Ph. 12.
 Chærophyllum — P. 752. — A. 1262.
 V. 1336.
 Chara — P. 1006.
 Chenopodium — Ph. 299. 303. 304.
 — P. 748. — C. 1197. — V. 1336.
 1348.
 Cheiranthus — Ph. 205. — P. 913.
 Cherleria — P. 860.
 Chionanthus — Ph. 153. 154. — P. 508.
 Chrysanthemum — Ph. 241.
 Chuquiraga — P. 683.
 Cichoriaceæ — P. 734.
 Cichorium — P. 795.
 Cinnamomum — P. 662. — V. 1332.
 Circeæ — Ph. 309.
 Cirsium — Ph. 238. 239. — A. 1274.
 Cistus — Ph. 138.
 Citrus — Ph. 49. 50. 51. 52. 53. 54.
 55. — P. 487. 488. 489. 490. 492.
 493. 494. 495. 615. 616. 617. 618. —
 D. 1075. — Ap. 1034. 1035. — Ce.
 1618.
 Clematis — P. 705. 706. 707. — V.
 1336.
 Clitorea — P. 875. 876.
 Clethra — Ph. 123. — S. 1125.
 Cocos — Ph. 330. — P. 932. 933. 934.
 — Ca. 1606.
 Colchicum — V. 1370.
 Colutea — Ph.D. 268. — P. 385. 870.
 873. — A. 1277.
 Compositæ — A. 1274.
 Coniferæ — P. 424.
 Conium — V. 1336.
 Convallaria — Ph.D. 378. — A. 1280.
 — V. 1374.
 Coptis — V. 1364.
 Cordyline — P. 965.
 Coriaria — Do. 1407.
 Cornus — Ph. 103. 104. — P. 506. 507.
 — S. 1120. — A. 1235. 1236. —
 Do. 1390. — Ca. 1506. 1591. 1592.
 Coronilla — P. 386.
 Corticium — S. 1176.
 Corylus — Ph. 166. 167. — P. 590.
 591. — Ap. 1028. — S. 1141. — Fu.
 1459. — P. 900. — Ca. 1532. 1535.
 1536. 1537. 1538. 1539. 1563.
 Corynocarpus — P. 685.
 Cotoneaster — Ca. 1493.
 Cratægus — Ph. 13. 17. — P. 457. —
 A. 1204. — Ca. 1480. 1492. 1602.
 Crepis — P. 739.
 Crocus — P. 944.
 Crucianella — P. 816.
 Cruciferæ — P. 801.

- Cucumis — P. 880.
 Cucurbita — Ph. 287. — P. 878. 879.
 881. 884. 885. 886. — V. 1368. 1369.
 Cucurbitaceæ — P. 803.
 Cupressus — Ap. 1058.
 Cycas — C. 2000.
 Cydonia — Ph. 10. — P. 443. — Ap.
 1046.
 Cynanchum — Ph. 284. 285. 286. —
 P. 924.
 Cynara — Ph. 247. — P. 917.
 Cypripedium — Ph.D. 376.
 Cytisus — Ph. 38. 39. 40. — P. 394.
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 Dædalea — S. 1175.
 Dactylis — V. 1386.
 Dahlia — P. 736. 793. 1015. — V. 1317.
 — Ca. 1609.
 Daphne — Ph. 135. — P. 474. 681.
 682. — A. 1224.
 Dasylyrion — P. 952. 953.
 Datura — Ph. 263. — P. 760. 762.
 Daucus — P. 749. — A. 1263.
 Delphinium — Ph. 202. — P. 702.
 Dentaria — P. 708. — A. 1214.
 Desmodium — V. 1340.
 Desmoncus — P. 937.
 Deutzia — D. 1082.
 Dianthus — Ph. 237. — A. 1216. — V.
 1337. 1362. — Pa. 1438.
 Dicranum — V. 1388.
 Digitalis — Ph. 256. — P. 810.
 Dioscorea — Ph. 323.
 Diospyros — P. 530. — A. 1233. —
 Ce. 1630.
 Diplopappus — P. 657.
 Diplotaxis — P. 856.
 Dipsacus — P. 785. 793. 795. 802.
 Dipterix — P. 397.
 Dracæna — Ph. 234. — V. 1372.
 Drosera — P. 808.
 Drupaceæ — P. 437.
 Drymis — S. 1124. — A. 1291.

 Echinocactus — P. 818.
 Edgeworthia — P. 473.

 Elæagnus — Ph. 151. — P. 677.
 Ephedra — S. 1149. — V. 1321.
 Epilobium — P. 798. — A. 1254.
 Epimedium — Ph. 211.
 Equisetum — P. 1004. 1005. — A. 1289.
 Eranthemum — S. 1167.
 Erica — P. 499. 502. — Ca. 1589.
 Ericaceæ — P. 661.
 Eriobotrya — Ph. 11. — A. 1225.
 Eryum — P. 804.
 Eryngium — P. 750. — A. 1280. —
 Pr. 1307. — V. 1342.
 Erysimum — Ph. 208. — A. 1215.
 Erythræa — Ph. 312.
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 1313. — V. 1337.
 Escallonia — P. 529.
 Eucalyptus — Ph. 33. — P. 460. 461.
 648. 649. 650. — Ap. 1045. — D.
 1088. — Sc. 1100. — S. 1111. —
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 — Do. 1421. — Ca. 1607.
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 Faba — Ph. 231.
 Fagus — P. 680. — Ap. 1020. 1030.
 S. 1154. — A. 1278. — Fu. 1462.
 1463. — Ca. 1534. 1549. 1550. 1551.
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 Ficus — Ph. 171. — P. 567. 901. —
 V. 1333. — Pa. 1441. — Cy. 1468.
 Ca. 1505.
 Filago — F. 851.
 Fœniculum — P. 747. 793. 794. — A.
 1263.
 Forsythia — Ph. 139.
 Foureroya — P. 959.
 Fragaria — Ph. 219. — P. 855.

- Fraxinus — Ph. 106. 179. — P. 477.
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 — Ap. 1025. 1058. — D. 1077. 1078.
 1080. — S. 1115. 1117. — A. 1276.
 — Do. 1392. — Fu. 1448. — Ca.
 1562. 1563. 1584. 1612.
- Galega — P. 722. — Do, 1423.
 Galeopsis — Ph. 275. — P. 774. 796.
 — A. 1256.
- Galium — P. 793. 815. — V. 1361. —
 Pa. 1435. 1437.
- Garrya — Ph. 121.
- Gentiana — Ph.D. 350. — P. 712. 713.
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- Georgina — C. 1195.
- Geranium — S. 1166. — V. 1338.
- Gerardia — V. 1358.
- Geum — A. 1251. 1272.
- Gladiolus — P. 946. 947. — A. 1282.
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- Glechoma — Ph. 273.
- Gleditschia — P. 380. 381. 382. 870.
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- Globularia — Ph. 311.
- Glycines — Ph. 45.
- Gomphrena — Ph. 295.
- Gordonia — Ca. 1595.
- Gossypium — P. 724. — Do. 1424.
- Graminaceæ — P. 1001. — Cr. 1096.
 — V. 1380. — Pa. 1443.
- Gynerium — P. 993.
- Hardenbergia — P. 609.
- Haussknechtia — A. 1208.
- Hedera — Ph. 100. 101. 102. — P. 511.
 512. 513. 623. 671. 672. 677. 869. —
 V. 1329. — Ca. 1602.
- Hedysarum — P. 720. 854. — A. 1211.
- Helianthemum — Ph. 204.
- Helianthus — P. 802. — A. 1274. —
 V. 1350. 1362.
- Helichrysum — P. 793.
- Helleborus — Ph. 201. — P. 857.
- Hemerocallis — P. 943. — V. 1373.
- Heracleum — P. 751. 753. — A. 1258.
 1262. — V. 1336.
- Heteromeles — Ph. 196. — P. 651.
 Ce. 1625.
- Hibiscus — Ph. 142. — P. 527. 658.
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- Hippophaë — Ca. 1597.
- Holcus — Cr. 1096.
- Hosackia — P. 721.
- Hoya — P. 619. 620. 621.
- Humulus — Ph. 293. — P. 793. 827.
 — Ci. 1293.
- Hydrangea — Ca. 1503.
- Hydrocotyle — Ph.D. 347.
- Hyoscyamus — P. 793.
- Hypericum — P. 811. 829. — A. 1212.
- Iasione — P. 867.
- Iasminum — Ph. 110. 111. — P. 480.
- Iatropa — P. 833.
- Iberis — Ce. 1633.
- Ilex — Ph. 127. — P. 628. 629. 630.
 631. 632. — S. 1126. — C. 1186. —
 Ca. 1561. — Ce. 1618.
- Impatiens — Ph.D. 346. — V. 1355. 1362.
- Indigofera — P. 723.
- Inula — P. 733.
- Ipomæa — V. 1359.
- Iris — A. 1272. 1381. — V. 1374. 1378.
- Isatis — Ci. 1293.
- Juglans — Ph. 162. 163. — P. 568. 906.
 — D. 1087. — S. 1134. — Ca. 1554.
 1555.
- Juncus — P. 981. 982.
- Juniperus — P. 599. 897. — Do. 1404.
 1416. — Ca. 1574. 1575.
- Kalmia — Ca. 1602.
- Kennedya — Ph. 43.
- Kerria — P. 458. — D. 1071. — Do.
 1397.
- Kœlreuteria — P. 531.
- Lactuca — P. 740. 793. — V. 1351.
- Lagenaria — P. 882. 883.
- Lagerstroemia — P. 547.
- Lamium — Ph. 272. — P. 779.
- Lappa — Ph. 242. — P. 730. 731. 732.
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- Lardizabala — P. 647.
 Larix — P. 896. 1016. — Ca. 1566. 1567.
 Laserpitium — Ph. 250.
 Lathyrus — Ph. 229. 230. — P. 796.
 804. 871. — Pa. 1439.
 Laurus — Ph. 84. 85. 86. — P. 485.
 486. 663. 921. — D. 1374. — Pr.
 1404. — S. 1628.
 Lavatera — P. 727.
 Lecidea — S. 1177.
 Leguminosæ — P. 613. 614. 715. —
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 Lemna — Ph. 333.
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 Liatris — P. 853.
 Ligustrum — Ph. 107. 108. — P. 580.
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 Lilium — Ph. 322. — A. 1272.
 Limonia — Ph. 53. — P. 491.
 Linaria — Ph. 257. — Ph.D. 357.
 Linnæa — Ph.D. 353.
 Linociera — Ph. 153.
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 Liriodendron — Ph. 158. 159. — P.
 532. 674. 918. — A. 1209. — V. 1331.
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 Lobelia — P. 789. 790. 791.
 Lonicera — Ph. 90. 91. 92. — P. 403.
 405. 406. 407. 408. — A. 1223. —
 V. 1336. 1389.
 Luffa — P. 878.
 Lunaria — A. 1277.
 Luzula — Pr. 1315.
 Lychnis — Ph.D. 349. — P. 858.
 Lycium — Ph. 214. — P. 519. 664.
 761. — A. 1238. — Ci. 1293.
 Lythrum — Ph.D. 354. — P. 703. 866.

 Maclura — P. 528.
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 Do. 1407.
 Mahonia — Ph. 131. 132. — P. 695.
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 Mallotus — Ph. 193.
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 Malus — A. 1275. — V. 1329. — Do. 1404.
 Malva — Ph. 214. — P. 801.
 Mammillaria — P. 818.
 Manioto — Do. 1422.
 Marchantia — Ph. 343.
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 Marrubium — P. 773. 793.
 Martynia — Ph. 260.
 Matricaria — P. 703.
 Medicago — Ph. 228. — P. 707. 716.
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 Melampyrum — P. 763.
 Melandrium — P. 781.
 Melia — Ph. 155. — P. 520. — V. 1328.
 Melica — V. 1383.
 Melilotus — Ph.D. 363.
 Menispermum — P. 806. 807.
 Mercurialis — Ph. 291. — P. 793. —
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 Mespilus — Ph. 9. — P. 455. 645. —
 A. 1225. 1226. — Ci. 1293.
 Metrosideros — Ca. 1604.
 Minuartia — P. 782.
 Momordica — P. 878.
 Monocotyledoneæ — S. 1172.
 Moræa — P. 945.
 Morus — Ph. 179. — P. 563. 564. 565.
 — Ap. 1047. — As. 1094. — Do.
 1403. — Ca. 1504.
 Mulgedium — A. 1213.
 Musa — P. 971. 972.
 Myrica — Ph. 34.
 Myricaria — Ph. 126.
 Myrtus — Ph. 32. — P. 647.

 Napoleona — Ph. 194.
 Nasturtium — Ph. 209.
 Nectandra — Ph. 195.
 Negundo — Ph. 58.
 Nerium — Ph. 136. — P. 496. 497.
 Nesæa — Ph. 314.
 Nicotiana — Ph. 264. 265.
 Nitraria — P. 505.
 Nuphar — P. 863.
 Nymphæa — Ph. 310.
 Nyssa — Ph. 191. — P. 905. — A.
 1204.

- Oenothera* — P. 799. 800. — S. 1163.
Olea — Ph. 105. — P. 667. 928. 929.
 S. 1116. — Ca. 1585. 1600. — Ce.
 1623.
Oncidium — Ph. 326. — P. 973.
Onobrychis — P. 719.
Onoclea — V. 1387.
Opuntia — Ph. 137. — P. 817. — Ap.
 1037.
Orchideæ — P. 974.
Ornithogalum — P. 942. — V. 1374.
Orobus — Ph. 226. 227. — A. 1268.
Orontium — Ph. 327.
Osmunda — V. 1381.
Othonna — P. 852.
Oxalis — Ph. 213. — V. 1365.
- Pæonia* — Ph. 200. — P. 703. — A.
 1252.
Palmaceæ — Ph.D. 375. — P. 935.
Paliurus — P. 911.
Pandanus — P. 939. — Ce. 1632.
Panax — A. 1259.
Papaver — P. 785. 916.
Paris — Ph.D. 379.
Parkinsonia — P. 383.
Pastinaca — P. 801.
Passiflora — P. 930.
Pavia — Ph. 2.
Paulownia — Ph. 138. — P. 544. 545.
Pedicularis — P. 772. 793.
Persica — Ph. 27. — P. 434. 435. 436.
 — Ca. 1494. 1495.
Petunia — Ph. 261.
Peltigera — Ph. 344.
Petroselinum — P. 801. — A. 1272.
Phaseolus — Ph. 224. 225. — P. 717.
 718. — V. 1341.
Pharbitis — Ph. 278.
Photinia — Ph. 18. 19. 20.
Phormium — Ph. 339. — P. 990. 991.
Phillyrea — Ph. 112. 113. 114. 115. —
 P. 666. — A. 1232.
Philadelphus — Ph. 90. — P. 414.
Philibertia — Ph. 317.
Phleum — P. 793. — V. 1386.
- Phlox* — P. 769. 801. — A. 1272. —
 V. 1336.
Phlomis — P. 771.
Phytolacca — Ph. 316. — P. 793. 823.
 — V. 1336.
Physalis — Ph. 262.
Phragmites — P. 983. 984. 985. 986.
 — D. 1089. — Pa. 1444.
Pinus — P. 426. 428. 593. 594. 596.
 597. 598. 600. 603. 604. 890. 891.
 892. 895. — Ap. 1018. 1019. 1020.
 1021. 1022. 1026. — D. 1090. — S.
 1142. 1144. 1146. 1147. 1148. 1150.
 — C. 1194. — Pr. 1310. — Do. 1402.
 1417. 1419. — Pa. 1445. — Fu. 1451.
 1452. 1453. — Ca. 1566. 1571. 1572.
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Pirus — Ph. 7. 22. 23. 24. — P. 440.
 441. 442. 907. 908. — Ap. 1023. 1044.
 1065. — D. 1034. — S. 1108. 1109.
 — A. 1204. 1105. 1228. 1229. — V.
 1329. — Ca. 1480. 1481. 1482. 1558.
 1594. 1605.
Pisum — Ph. 233.
Pirola — Ph.D. 366.
Pittosporum — P. 425.
Platanus — Ph. 172. — P. 413. 554.
 555. 556. 557. 558. 675. — D. 1033.
 — Fu. 1455. — Ca. 1556. 1557.
Plantago — Ph. 290. — P. 774. 805.
Poa — P. 998. — V. 1382. 1385.
Podocarpus — Do. 1420.
Podophyllum — Ph. 305.
Poinsettia — P. 526.
Polygonum — Ph. 300. — Ph.D. 364.
 — P. 797. — A. 1273. — V. 1356.
Polygonatum — Ph. 324. — P. 960.
 961. — V. 1379.
Polygala — P. 509.
Populus — Ph. 175. 176. 177. 178. 179.
 180. — Ph.D. 370. — P. 573. 574.
 575. 679. — Ap. 1058. — D. 1083.
 1085. 1086. — S. 1103. 1127. 1132.
 A. 1206. 1217. 1245. 1246. — Do.
 1390. 1395. 1396. — V. 1331. — Ca.
 1518. 1519. 1527. 1539. 1560. 1563.
Portulaca — Ph. 239. — P. 780.

- Potamogeton — P. 948.
 Potentilla — Ph. 217. 218.
 Primula — Ph. 308.
 Pritchardia — P. 936.
 Priva — P. 765.
 Prunella — P. 778. — A. 1257.
 Prunus — Ph. 4. 5. 6. 7. 8. 14. 15.
 16. 90. 161. — P. 433. 635. 636. 637.
 — Ap. 1070. — D. 1074. 1076. —
 S. 1103. 1104. 1105. 1106. 1110. 1154.
 1155. 1157. — A. 1201. 1204. — V.
 1334. — Do. 1398. — Ca. 1480. 1483.
 1484. 1485. 1486. 1487. 1559. 1560.
 1561. 1603.
 Psoralea — P. 612.
 Pteris — P. 1003. — S. 1178.
 Pterocarya — Ph. 164.
 Pulmonaria — Ph. 307.
 Punica — Ph. 21. — P. 459. — D. 1082.
 — A. 1220. — Ca. 1496.
 Pyxidium — Ph. 297.

 Quamoclit — Ph. 277.
 Quercus — Ph. 181. 182. 183. 184. 185.
 186. 187. 188. — P. 569. 570. 571.
 572. 623. 639. 640. 641. 642. 643.
 644. 645. 646. 671. 899. 900. — Ap.
 1027. 1041. 1051. 1058. 1068. — D.
 1074. 1079. 1083. 1084. — S. 1129.
 1130. 1136. 1137. 1138. 1139. 1143.
 1183. — C. 1187. 1188. — A. 1210.
 — St. 1303. — Do. 1409. 1410. 1411.
 — Cy. 1471. 1472. 1473. 1480. —
 Pa. 1445. 1454. — Ca. 1534. 1539.
 1540. 1541. 1542. 1544. 1545. 1546.
 1548. 1560. 1562. 1563. 1602. 1615.
 — Ce. 1620.

 Ranunculus — Ph. 197. 198. — P. 797.
 Rhamnus — Ph. 62. 63. 64. 65. 66.
 179. — P. 415. 510. — S. 1153. 1154.
 — A. 1217. 1220. — Ci. 1293. —
 Do. 1403. — Fu. 1447. — Ca. 1558.
 1560. 1586. 1587. — Ce. 1624.
 Rhinanthus — P. 751. 925.
 Rhipogonum — P. 931.
 Rhipsalis — P. 819.

 Rhododendron — Ph. 116. 117. — Ap.
 1031. — D. 1073.
 Rhus — Ph. 78. 79. 80. 81. — P. 503.
 504. — Ap. 1043. — S. 1121. 1122.
 A. 1237. — Cy. 1469. — Ca. 1501.
 Ribes — Ph. 82. 83. — P. 517. 518.
 — D. 1074. — A. 1239. — V. 1326.
 Do. 1391. — F. 1434. — Fu. 1450.
 — Ca. 1537. 1560. 1590.
 Ricinus — P. 785. 834. 835.
 Robinia — Ph. 37. — P. 398. 399. 400.
 401. 402. 587. 611. 870. 874. — Ap.
 1041. — D. 1084. — S. 1156. — Ca.
 1578. 1579. 1580. 1581.
 Rosa — Ph. 31. — P. 448. 449. 450.
 451. 452. 453. 580. 638. — D. 1074.
 — A. 1207. — Fu. 1449. — Ca. 1476.
 1477. 1478. 1560. 1561. 1596. 1598.
 — Ce. 1631.
 Rosmarinus — P. 546.
 Rubia — P. 814. 868.
 Rubiaceæ — P. 869.
 Rubus — Ph. 28. 29. 30. — P. 444.
 445. 446. 447. 793. — A. 1203. —
 V. 1317. 1319. — Ca. 1474. 1475.
 1563. 1601.
 Ruellia — V. 1357.
 Rumex — Ph. 301. 302. — Ph.D. 355.
 — P. 785. 828.
 Ruscus — Ph. 319. — P. 968. 969.

 Sabal — P. 938. — C. 1199.
 Saccharum — P. 994.
 Sagittaria — Ph.D. 373.
 Salicaria — P. 793.
 Salix — P. 576. 577. 578. 579. — Ap.
 1028. 1052. — D. 1075. — S. 1128.
 1130. 1131. 1140. — A. 1243. 1244.
 — V. 1327. 1329. 1336. — Do. 1390.
 1404. — Fu. 1458. — Ca. 1520. 1521.
 1522. 1523. 1524. 1525. 1526. 1527.
 1528. 1529. 1530. 1531. 1532. 1533.
 1558. 1560. — Ce. 1619.
 Salsola — P. 825. — Ca. 1608.
 Sambucus — Ph. 94. 95. 313. — P.
 410. 411. 412. 413. 785. 786. 787.
 788. 793. 797. — Ap. 1042. — D.

1072. — A. 1272. — Pr. 1312. —
Do. 1407.
- Saponaria — Ph. 235. — P. 783. 859.
- Sarothamnus — P. 391. — Ca. 1582.
- Sarracenia — Pe. 1299.
- Satureja — P. 777.
- Saxifraga — P. 809. 864.
- Scabiosa — P. 826.
- Schinus — Ph. 143.
- Schoberia — P. 793.
- Scilla — V. 1374.
- Scirpus — Ph. 341. — Ph. 978.
- Scrophularia — Ph. 253. 254. 255. —
P. 766. 794. 802.
- Secale — P. 1000.
- Sedum — P. 811. 822. — Pa. 1436.
- Senecio — Ph. 243. 244.
- Setaria — Ph. 342.
- Sherardia — Pa. 1437.
- Silene — Ph. 236. — P. 804.
- Silphium — V. 1354.
- Sisymbrium — Ph.D. 352.
- Smilax — Ph.D. 374. — P. 954. 955.
— Pe. 1300. — V. 1329. 1331.
- Smyrnium — P. 752.
- Solanum — Ph. 266. 267. 268. 269. 270.
— P. 756. 757. 758. 759. 801. 920.
— S. 1165. — Pr. 1306. — V. 1336.
1337. 1343. 1344. 1345. 1346.
- Solidago — P. 741. 793. 802. — A.
1266. — V. 1352.
- Sonchus — Ph. 240.
- Sophora — P. 389. — Do. 1403.
- Sorbus — Ph. 25. 26. — P. 633. 634.
— Ap. 1028. — S. 1107. — Do. 1399.
1400. 1401. 1404. — Ca. 1479. 1480.
1481. — Ca. 1562.
- Sorghum — Ph. 338. — Ph.D. 377.
- Sparganium — A. 1281.
- Spartium — P. 388. — Ap. 1032.
- Spiræa — Ph. 220. 221. 222. 223. —
P. 438. 439. 792. — A. 1262. — Ca.
1491.
- Stanhopea — Pr. 1305.
- Stapelia — P. 820.
- Staphylea — P. 525. — V. 1320.
- Statice — P. 865.
- Stellaria — A. 1250. — Pa. 1438.
- Sterculia — Ph. 149. — P. 521.
- Stigmaphyllum — Ph. 192.
- Strelitzia — P. 970.
- Symphoricarpos — Ph. 93. — P. 404.
- Syringa — Ph. 109. — P. 442. 481.
482. 483. 484. 668. 793. — A. 1217.
— Do. 1403. 1405. — Ca. 1533.
- Tamarix — P. 548. 549. 550. 551. 552.
553.
- Tamus — Ph. 320. — V. 1377.
- Taxus — P. 432. 606. 607. — Ca. 1576.
- Tecoma — Ph. 144. 145. 146. — P.
536.
- Teucrium — Ph. 271. 274.
- Thalictrum — Ph. 199. — P. 704.
- Thermopsis — Ph. 318.
- Thuja — P. 605. 891. — Ca. 1577.
- Tilia — Ph. 141. — P. 542. 543. —
Ap. 1033. — S. 1156. 1157. — A.
1217. — V. 1318. — Do. 1403. —
R. 1427. — Ca. 1593. 1594.
- Tormentilla — Ph. 216.
- Tremella — S. 1173.
- Trianospermum — Ph. 288.
- Trientalis — Ph.D. 362.
- Trillium — V. 1371.
- Triglochin — A. 1283. — V. 1374.
- Trifolium — A. 1267.
- Triticum — P. 999. 1000.
- Tropæolum — Ph. 212. — A. 1272.
- Tulostoma — A. 1288.
- Tussilago — Ph. 245. — A. 1265.
- Typha — Ph. 336. 337. — P. 977.
- Ulex — P. 387.
- Ulmus — Ph. 173. 174. — P. 586. 587.
588. — Ap. 1054. 1055. 1056. 1058.
— A. 1247. 1248. 1249. — St. 1302.
— Do. 1406. — Fu. 1456. — Ca.
1516. 1517. 1563.
- Umbelliferæ — P. 748. 754. 755. — A.
1263. — V. 1349.
- Urtica — Ph. 292. — P. 793. 794. 801.

802. 832. — S. 1170. — Fr. 1311. — V. 1346.
 Uvaria — Ph. 325.
 Vaccinium — P. 498. 659. — Do. 1418. — Ca. 1612. — Ce. 1627.
 Valeriana — P. 693. — V. 1336.
 Veratrum — Ph. 321.
 Verbascum — Ph. 259. — P. 767. 770. 793.
 Verbena — Ph. 258. — P. 793. 829.
 Veronica — Ph. 253. — Ph.D. 356. — P. 768.
 Viburnum — Ph. 74. 75. 76. 77. 90. — P. 514. 515. 516. 532. 693. — D. 1077. — A. 1217. 1221. 1222.
 Vicia — Ph. 232. — P. 804.
 Vinca — Ph. 306. — P. 671. 824. 862. — Ca. 1602.
 Viola — Ph. 203. — P. 861. — A. 1271. — Ci. 1293. — V. 1371.
- Virgilia — A. 1240.
 Viscum — P. 673.
 Vitis — Ph. 96. 97. 98. 99. — P. 462. 463. 464. 465. 467. 468. 469. 470. 471. 652. 653. 654. 655. 656. 887. 888. 889. — Ap. 1048. — D. 1074. — S. 1119. — Ci. 1193. — V. 1317. — Ca. 1498. 1499. 1500. 1614.
 Volkameria — P. 522.
 Yucca — P. 949. 950. 951. — V. 1337. 1362.
 Weigelia — Ph. 440. — P. 409.
 Wigandia — Ph. 315.
 Wistaria — Ph. 46. — P. 392. 608.
 Zea — A. 1284. 1286. 1290. — V. 1380.
 Zizyphus — Ph. 67.

Sect. 2. Phæosporæ Sacc.

Sporulæ globosæ, ovoideæ vel oblongæ continuæ, olivaceæ vel fuliginææ.

Clavis analytica generum.

§ Simplicis.

I. Perithecia glabra.

* Perithecia sessilia, subsphæroidea.

Sphæropsis. Perithecia globoso-papillata, majuscula, subcarbonacea; sporulæ longe stipitatae, oblongæ, majusculæ.

Coniothyrium. Perithecia globulosa vel depressa, minuscula, typice submembranacea; sporulæ brevissime vel obsolete stipitatae, sphæroideæ vel ovoideæ, minutæ. pag. 30

Harknessia. Perithecia globoso-conica, tenuiter et pseudo-parenchymatica, apice albo-lacerata; sporulæ longe stipitatae, ellipsoideo-oblongæ, dein in massam atram expulsæ. pag. 32

Hypocenia. Perithecia obtusissima, erumpentia, loculum semiorbicularem distinctum includentia; sporulæ fusoidæ, pallide brunneæ. pag. 32

** Perithecia stipitato-clavata.

Levieuxia. Perithecia carbonacea, rigida, demum vertice rimose diffracta. pag. 32

II. Perithecia setosa.

Chaetomella. Perithecia subastoma, superficialia, setosa; sporulæ stipitatae, tereti-fusoidæ, fuliginææ, subinde hyalinæ. (Cfr. *Pyrenochaeta* inter *Hyalosporas*). pag. 32

§§ Compositæ vel cæspitosæ.

Haplosporella. Perithecia in cæspites erumpentes dense congesta. pag. 32

Weinmannodora. Stroma hemisphæricum, carbonaceum, liberum, intus circumscissum; sporulæ majusculæ. pag. 32

Cytoplea. Stroma pulvinatum, dein confluyendo effuso-crustaceum, intus monostiche locellatum; sporulæ minutæ, initio catenulatæ, paraphysatæ. pag. 32

SPHÆROPSIS Lév. in Demid. Voy. p. 112 emend., Sacc. Mich. II. p. 115 (Etym. a *Sphæria*, ad quam habitu accedit), *Podosporium* Bon., non Schwein. *Macropodia* West. V. Not. p. 19 note 2. *Aplosporella* Speg. F. Arg. Pug. IV. n. 299, p. p. — Perithecia subcutaneo-erumpentia, globosa, papillata, membranaceo-carbonacea, nigra. Sporulæ ovoideæ vel oblongæ, continuæ, fuliginææ, basidiis bacillaribus typice suffultæ. — Est, meo sensu, *Diplodia* sporulis continuis fuligineis instructa.

A) *Eu-Sphæropsis*.

Sporulæ mediocres, mucō non obvolutæ.

I. In *Dicotyledoneis lignosis*.

1. **Sphæropsis ovalis** (Cooke et Harkn.) Sacc., *Macroplodia ovalis* 1635
Cooke et Harkn. in *Grevillea* 1881, p. 82. — Peritheciis atris, globosis, semi-liberis, in plagas elongatas collectis; sporulis pallido-fuscis, ovalibus, continuis, 5 = 4.
Hab. in ramis *Hymenææ* in California Amer. bor.
2. **Sphæropsis Absus** Cooke in *Grevillea*. — Sparsa, erumpens; pe- 1636
ritheciis subglobosis, atris, demum apice prominulis; sporulis late ellipticis, demum brunneis, 20 = 1,5.
Hab. in ramis *Cassiæ Absus*, Madras Ind. orient.
3. **Sphæropsis gleditschiæcola** Cooke in *Grevill.* — Peritheciis con- 1637
fluentibus in pustulas erumpentibus, epidermide cinctis; sporulis ellipticis, brunneis, 18 = 8.
Hab. in ramis *Gleditschiæ*, Aiken Carolin. austr.
4. **Sphæropsis Saccardiana** (Speg.) Sacc. *Diplodia Saccardiana* Speg. 1638
Nov. Add. n. 168 et Mich. II. p. 270. — Peritheciis globosis, gregariis, sæpius lineariter dispositis, primo epidermide tectis, dein liberis, minutis, $\frac{1}{8}$ - $\frac{1}{7}$ mill. diam., atris, subcarbonaceis, ostiolo parvulo impresso pertusis; sporulis ellipticis vel ovoideis, quandoque inæquilateralibus, utrinque obtusiusculis, continuis, pallide fuligineo-olivaceis, primo levibus, dein longitudinaliter 1-striatis, atque eadem stria dehiscentibus, 12-14 = 5-6.
Hab. in ramulis emortuis dejectis *Sarothamni scoparii* in alpinis M. Borgá et M. Salta Cimolais, Cadore, Carnia.
5. **Sphæropsis Parkinsoniæ** (Speg.) Sacc. *Diplodia Parkinsoniæ* Speg. 1639
F. Arg. Pug. I. p. 109. — Peritheciis lenticularibus, $\frac{1}{3}$ - $\frac{1}{4}$ mill. diam., gregariis, primo tectis, dein erumpentibus, epidermide stellatim fissa cinctis, contextu membranaceo, parenchymatico, olivaceo-fuligineo, matrice sæpius dealbata insidentibus; sporulis elliptico-cylindraceutis vel subcylindraceuto-ovoides, utrinque obtuse rotundatis, continuis, rectis vel vix curvulis, opacis, fuligineis, 21-24 = 8-10.
Hab. in ramulis emortuis *Parkinsoniæ aculeatæ*, Baracas del Sur. Argent. Amer. austr.
6. **Sphæropsis tephrospora** B. et C. North Am. Fungi n. 409^{bis} — 1640
Peritheciis sub cortice nigrificata tectis, sero rima longitudinali

emergentibus; sporulis brunneis ellipticis vel oblongo-ellipticis uniuucleatis, 6-7 = 3-3,5.

Hab. in ramis Magnoliæ in Carolina infer. Amer. bor. — « An *Coniothyrium?* »

7. **Sphæropsis Maertensii** (West. Bon.) Sacc. *Podosporium Maertensii* (West.) Bon. Abhandl. I. p. 46. *Epidochium Maertensii* West. in Rabenh. F. E. n. 433. — Peritheciis depressis lentiformibus, epidermide tectis, nigris, $\frac{1}{4}$ mill. diam., siccis concavo-depressis; ostiolo simplici pertuso; sporulis longis, utrinque acuminatis, atris, longe pedicellatis e fundo perithecii assurgentibus; basidiis longioribus intermixtis. 1641

Hab. in ramis deciduis Tiliæ in Belgio. — Sec. Kickx Fl. Fl. II. p. 181 ad *Melanconium Desmazieri* pertineret hæc species; sed descriptio Bonordemi differre videtur.

8. **Sphæropsis demersa** (Bon.) Sacc. *Podosporium demersum* Bon. 1642 Handb. p. 227. — Peritheciis globosis duriusculis, nigris, innato-erumpentibus ostiolatis; sporulis elongato-ovoideis, majusculis, dilute fuscis; basidiis elongatis.

Hab. in ramulis corticatis Pruni spinosæ et Cratægi in Germania.

9. **Sphæropsis Peckii** Sacc. *Sphæropsis anomala* Peck Rep. of the St. M. Botan. 1872, p. 86, nec B. et C. — Peritheciis cæspitosis, nigris, in cortice interiore nidulantibus, rimaque transversali erumpentibus; ostiolo papillato; sporulis oblongis, 20-25 μ . longis. 1643

Hab. in ramis emortuis Cerasorum, Albany Amer. bor.

10. **Sphæropsis cerasina** Peck 33 Rep. St. Mus. 24. — Peritheciis numerosis, minutis, cortice nidulantibus, epidermide elevata, dein pertusa cinctis, nigris, sæpe apice cinereis; sporulis initio hyalinis, dein coloratis, elliptico-obovatis vel oblongis, 20-25 μ . longis; sporophoris brevibus. 1644

Hab. in ramis emortuis Pruni virginianæ in Amer. bor.

11. **Sphæropsis cinerea** (C. et E.) Sacc. *Macroplodia cinerea* C. et Ell. in Grevill. — Peritheciis discellæformibus (obsoletis); sporulis ellipsoideis, continuis, fuligineis, 20 μ . long.; basidiis hyalinis. 1645

Hab. in ligno decorticato Piri Mali, New Jersey Amer. bor.

12. **Sphæropsis Mali** (West.) Sacc. *Macroplodia Mali* Westd. Crypt. d. I. stat. nat. p. 369. Lamb. Fl. myc. Belg. III. p. 66. — Peritheciis sparsis, immersis, prominulis, nigris, membranaceis; ostiolo papillato epidermidem elevante et perforante; sporulis ovoideis, fuligineis, dein madore exsiliantibus matricemque fœdantibus. 1646

Hab. in ramulis Piri Mali in Belgio, Italia, Austria.

13. **Sphæropsis Malorum** Peck Ann. Rep. 1881. Thirty-Fourth. p. 1647
36, tab. 4. fig. 16-21. — Peritheciis innatis erumpentibus, epidermide fissa cinctis, conico-applanatis, vertice pertusis; sporulis oblongis, basidiis æquilongis suffultis, 25 = 10-11, fuligineis.

Hab. in epicarpio Piri Mali in Amer. bor. — *Sphæropsis Malorum* Berk sporulis chlorino-hyalinis utitur; hinc ad *Phomam* relata est; an tamen eadem species immatura?

14. **Sphæropsis rubicola** C. et Ell. in Grevillea. — Subgregaria, erumpens; peritheciis atris, primum tectis, demum epidermidem findentibus; sporulis elongato-ellipticis, brunneis, 25-30 = 10.

Hab. in sarmentis Rubi idæi, R. nigræ, New Jersey Americæ borealis.

15. **Sphæropsis Rosarum** C. et Ell. in Grevillea. — Subgregaria vel sparsa; peritheciis tectis, epidermidem findentibus; sporulis ellipticis, uninucleatis, brunneis, 25 = 10.

Hab. in ramis Rosarum, New Jersey Amer. bor.

16. **Sphæropsis Cydoniæ** C. et Ell. in Grevillea. — Epiphylla; peritheciis immersis, punctiformibus, in macula rubro-brunnea insidentibus; sporulis ellipticis, brunneis, 20-22 = 9.

Hab. in foliis Cydoniæ, New Jersey Amer. bor.

17. **Sphæropsis Clintonii** Peck Rep. on the St. Mus. N. J. — Peritheciis minutis, sparsis, innatis, nigris; sporulis ellipticis vel oblongo-ellipticis, coloratis, 14-17 μ . longis.

Hab. in ligno decorticato Aceris, Buffalo Americæ borealis (CLINTON).

18. **Sphæropsis sociata** Lév. Ann. Sc. Nat. 1846, p. 295. — Peritheciis cæspitosis cohærentibus, erumpentibus, globosis, rugulosis, nigris, receptaculo atro corticali communi inpositis; ostioliis papillatis vel conicis deciduis; sporulis ovato-ellipticis, magnis, subcoloratis, 1-nucleatis.

Hab. ad corticem Ailanthi glandulosæ in horto botanico parisiensi.

19. **Sphæropsis celastrina** Peck 33 Rep. St. Mus. p. 24. — Peritheciis numerosis, minutis, in cortice immersis, epidermide elevata, dein fissa cinctis; sporulis oblongis vel oblongo-ovatis, coloratis, 20-25 μ . longis.

Hab. in ramis Celastris scandentis, Chartton Amer. bor.

20. **Sphæropsis propullulans** (Schw.) Peck Rep. on the St. Mus. N. Y. 1654
Sphæria propullulans Schw. Syn. Am. n. 1447 Cfr. Syll. II. p.

393. — Atra, cæspitosa; peritheciis majusculis atrofartis, prominulis in superficie subdepressa, coronatis ostioli papillaribus centralibus; cæspitulis superne quasi punctato-rugosis.

Hab. frequens in surculis emortuis Celastri, Bethlehem et Greenbush Amer. bor.

21. **Sphæropsis Novæ-Hollandiæ** (Speg.) Sacc. *Diplodia Novæ-Hollandiæ* Speg. F. Arg. Pug. I. p. 190. — Peritheciis amphigenis, sparsis, parenchymati foliorum immersis, tectis, lenticulari-globosis, $\frac{1}{3}$ - $\frac{1}{4}$ μ . diam., atris, ostiolo parvulo protuberante donatis; sporulis ellipticis vel ovoideis, continuis, fuligineis, 26-30 \approx 10-12.

Hab. ad folia dejecta putrescentia Eucalypti Globuli ubique vulgatissima.

22. **Sphæropsis hedericola** (Speg.) Sacc. *Diplodia hedericolæ* Speg. Argent. Pug. II. n. 130. — Peritheciis globoso-lenticularibus, coriaceo-membranaceis, atris, $\frac{1}{4}$ - $\frac{1}{3}$ mill. diam.; sporulis ellipticis vel ovoideis, quandoque inæquilateralibus, utrinque obtuse rotundatis, 18-20 \approx 9-10, fuligineis, continuis.

Hab. in foliis dejectis Hederæ Helicis in horto del Colegio Argentino Buenos-aires in America australi.

23. **Sphæropsis fibriseda** C. et E. in Grevillea. — Peritheciis gregariis, inter fibras ligneas immersis; ostioli breve emergentibus; sporulis longe ellipticis, brunneis, 25-30 \approx 10.

Hab. in ramis decorticatis Rhois venenatæ et Nyssæ, New Jersey in Amer. bor.

24. **Sphæropsis Sumachi** (Schw.) C. et E. Grev. V. p. 31, t. 75, f. 11, *Sphæria Sumachi* Schw. n. 1425 et Sacc. Syll. II. pag. 139. — Cæspitosa; peritheciis subconfluentibus in stromate nigro subobliterato; cæspitulis difformibus ex epidermide prorumpentibus; junior peritheciis crusta connatis, adulta fere peritheciis liberis; ostioli majusculis difformibus; sporulis ellipticis, brunneis globoso-nucleatis, 20-25 \approx 12.

Hab. in ramis Rhois glabræ, Bethlehem Amer. bor.

25. **Sphæropsis Visci** (Sollm.) Sacc. Mich. II. p. 115, *Ceuthospora Visci* Sollm. Hedw. II. n. 19, t. XIII. — Peritheciis gregariis, globoso-depressis, atris, indistincte ostiolatis, subcutaneo-erumpentibus; sporulis obovatis magnis, 40-50 \approx 25-30, prorsus continuis, olivaceo-fuligineis, basidiis filiformibus fultis.

Hab. in foliis ramulisque Visci albi in Germania, Gallia et Helvetia.

26. **Sphæropsis aquifolia** (West.) Sacc. *Macroplodia aquifolia* West. 1660

V. Not. p. 19. — Peritheciis amphigenis, sparsis, immersis, prominulis; ostiolo papillato epidermidem lacerato-perforante; sporulis ovoideo-ellipsoideis, continuis, fuligineis, majusculis.

Hab. in foliis Ilicis Aquifolii prope Mons in Belgio (P. DUMONT).

27. **Sphæropsis Citri** (Gar. et Catt.) Penz. Mich. II. p. 442, *Sphæro-* 1661
nema Citri Garov. et Catt. in Rendic. R. Istit. Lomb., Ser. II. vol. 8, p. 119, Catt. Mic. Agrum. p. 11. — Peritheciis sparsis, solitariis, raro congregatis confluentibusque, membranaceis, subrotundo-mammillatis, opacis, aterrimis, 500 μ . diam., ostiolatis; ostiolo mammoso; sporulis ellipticis, lutescentibus, centro nucleo oleoso fartis, 40 μ . longis; basidiis obsoletis.

Hab. in cortice et in ligno denudato fracido Citrorum, Caserta prope Neapolim Ital. austr. (A. CATTANEO).

28. **Sphæropsis Henriquesii** Thüm. Contrib. ad Flor. mycol. Lusitan., 1662
Ser. III, n. 320, p. 39. — Peritheciis conicis, elevatis prominentibus, nitido-atris, simplicibus; basidiis longis, fasciculatis, curvatis, articulatis, achrois; sporulis ovoideis, continuis, utrinque acutatis, eguttulatis, olivaceo-griseis, 10-12 \times 6-7.

Hab. in ramulis emortuis Citri Aurantii, Felgueiras in Lusitania (HENRIQUES).

29. **Sphæropsis? atra** (Pr.) Sacc. *Gyratylium atrum* Pr. Hoyer. 1663
n. 335. — Peritheciis membranaceis sub epidermide innatis, planis, latis, atris; sporulis erumpentibus, muco involutis subovatis, numerosissimis, semipellucidis, saturate-fuscis; nucleo firmo et guttulis oleosis repleto, basidiis stipitiformibus aggregatis.

Hab. ad ramulos Corni sanguineæ, Hoyerswerda.

30. **Sphæropsis Sassafras** C. et E. in Grevillea. — Peritheciis pa- 1664
pillæformibus, epidermide cinctis; sporulis elongato-ellipticis, brunneis, 30-35 \times 12.

Hab. in cortice Lauri Sassafras, New Jersey Amer. bor.

31. **Sphæropsis seriata** Peck 33 Rep. St. Mus. 24. — Peritheciis 1665
solidis, aggregatis vel subcæspitosis, in cortice inæquali longe seriatis, nigris; sporulis initio pallidis, dein coloratis, elliptico-obovatis vel oblongis, 20-25 μ . longis.

Hab. in cortice ramorum Sassafras officinalis, Center Americæ borealis.

32. **Sphæropsis fabæformis** (P. et T.) Sacc. *Diplodia fabæformis* 1666
Pass. et Thüm. Pilze des Weinstockes Wien 1878, pag. 141. — Peritheciis prominulis, semiglobosis, epidermide cinctis, primo im-

mersis, tectis, mediis, subsulcatis, gregariis, irregulariter dispositis, atris; sporulis ellipsoideis vel plerumque fabæformibus, utrinque rotundatis, medio uni-nucleatis, non septatis, unilateraliter inflexis, fuscis, $20 \approx 11-13$.

Hab. in sarmentis emortuis *Vitis viniferæ*, Parma Italiæ (PASSERINI).

33. **Sphæroopsis Punctum** C. et Ell. in Grevillea t. 96. f. 27. — Peritheciis sparsis, minutis, epidermide tectis, globosis; sporulis ellipticis, brunneis, $18-25 \approx 8$. 1667

Hab. in ramis *Loniceræ* in Pennsylvania Americæ borealis (W. C. STEVENSON).

34. **Sphæroopsis Wilsoni** Clinton in Peck Rep. on the St. Mus. New York. — Peritheciis minutis, punctiformibus leniter prominulis, epidermide dein longitudinaliter fissa cinctis, nigris; sporulis oblongo-ellipticis, coloratis, $20-22 \mu$. longis. 1668

Hab. in sarmentis *Loniceræ flavæ*, Buffalo Americæ borealis (CLINTON).

35. **Sphæroopsis Sambuci** Peck Rep. on the St. Mus. N. Y. — Peritheciis subglobosis, sparsis vel subcæspitosis, prominulis, erumpentibus, epidermide fissa cinctis, nigris; sporulis oblongis, coloratis, $15-20 \mu$. longis. 1669

Hab. in ramis *Sambuci canadensis*, North Greenbush Americæ borealis.

36. **Sphæroopsis sambucina** (Cooke) Sacc. *Macropodia sambucina* Cooke in Grevillea. — Gregaria, atra, erumpens; peritheciis submembranaceis, papillatis; sporulis subglobosis, brunneis, $10 \approx 8$. 1670

Hab. in ramis *Sambuci*, Sierra Nevada Amer. bor.

37. **Sphæroopsis Aguirrei** (Speg.) Sacc. *Haplosporella Aguirrei* Speg. Fung. Arg. pug. III. p. 34. — Peritheciis sparsis, subepidermicis, hemisphærico-conicis, parvulis, $\frac{1}{6}-\frac{1}{5}$ mill. diam., ostiolo papillato, minuto, exserto donatis, atris, carbonaceis; sporulis ellipticis vel ovoideis, utrinque obtusissime rotundatis, $20 \approx 8-10$, intense fuliginis, in sterigmatibus conicis, $10-15 \approx 5$, hyalinis, acrogenis. 1671

Hab. in ramulis emortuis *Sambuci australis* in sepibus prope San Martin Reip. Argentina.

38. **Sphæroopsis Arctostaphyli** (Vize) Sacc. *Macropodia Arctostaphyli* Vize in Grevillea V. p. 109. — Epiphyllia, sparsa; peritheciis emergentibus, globosis, atris; sporulis angustè ellipticis, brunneis, $8-12 \approx 5$. 1672

Hab. in foliis *Arctostaphyli glauci* in California.

39. **Sphæropsis asterina** (Cooke et Harkn.) Sacc. *Macroplodia asterina* Cooke et Harkn. in Grev. 1881, p. 82. — Hypophylla; maculis radiato-fibrosis, suborbicularibus, atris; peritheciis subglobosis, aggregatis, inter hyphas nidulantibus; sporulis ovalibus, fuscis, $6 \approx 3,5$. 1673
Hab. in foliis *Arbuti Menziesii* in California Amer. bor.
40. **Sphæropsis clethricola** C. et Ellis in Grevillea. — Erumpens, subseriata; peritheciis subglobosis, atris, corticem rimoso-findentibus; sporulis ellipticis, brunneis, $22 \approx 10$. 1674
Hab. in ramis *Clethræ*, New Jersey Amer. bor.
41. **Sphæropsis Diospyri** B. et Br. F. of Ceyl. n. 790. — Nitida, congesta, incarcerata, epidermidem elevans; sporulis magnis, 25μ . longis, paraphysibus longis. 1675
Hab. in fructibus *Diospyri* embryopteris, Peradeniya, Ceylon.
42. **Sphæropsis Syringæ** (Fr.) Peck et C. Rep. on the St. Mus. New York. *Sphæria* (Hendersonia) *Syringæ* Curr. Fructif. simpl. Sph. p. 329, cum icone, *Sphæria Syringæ* Fr. Sel. Suec. n. 233 et Syst. myc. p. 492. — Gregaria, suberumpens; peritheciis subellipticis depressis, rugulosis, nigris, ostiolo subtili; sporulis brunneis, oblongis, $20-24 \approx 10-11$. 1676
Hab. in ramis emortuis *Syringæ* in Suecia et in America boreali.
43. **Sphæropsis biformis** Peck Rep. on the St. Mus. N. Y. — Peritheciis sparsis, erumpentibus, aliis minutis vix epidermidem perforantibus, aliis majoribus eam late findentibus; sporulis variis, obovatis, ellipticis vel oblongis, subinde curvatis, coloratis, $15-25 \mu$. longis. 1677
Hab. in ramis *Fraxini* americanæ, Albany Amer. bor.
44. **Sphæropsis phomatella** Peck 33 Rep. St. Mus. p. 24. — Peritheciis numerosis, minutis, maculis indeterminatis pallidis insidentibus, epidermide dein fissa cinctis, nigris; sporulis oblongis, initio hyalinis, dein coloratis, $20-30 \mu$. longis; sporophoris brevibus. 1678
Hab. in ramulis emortuis *Fraxini* americanæ, West Troy Americæ borealis.
45. **Sphæropsis pensylvanica** B. et C. North Am. Fung. n. 411^{bis}. — Peritheciis papilliformibus, epidermide cinctis; sporulis oblongo-obovatis hyalinis (dein fuscis?), 25μ . longis. 1679
Hab. in ramis *Fraxini* et, ut videtur, *Alni*, Buffalo et in Pennsylvania Amer. bor. (MICHENER).

46. **Sphæropsis pericarpii** Peck 25 Rep. p. 85. — Peritheciis minu- 1680
tis, leniter elevatis, hemisphæricis, epidermide tectis, dein vertice
emergentibus; sporulis coloratis, 22 μ . longis.
Hab. in pericarpio Caryæ, Albany Amer. bor.
47. **Sphæropsis Caryæ** C. et Ell. in Grevillea V. p. 52. — Perithe- 1681
ciis seriatis, subtectis, demum erumpentibus; sporulis ellipticis, brun-
neis, 25 = 10-12.
Hab. in ramis Caryæ albæ in Amer. bor.
48. **Sphæropsis Platani** Peck 25 Rep. p. 85. — Peritheciis hemi- 1682
sphæricis vel convexis, teneris, nigris, intus albis erumpentibus;
ostiolo minuto, papilliformi; sporulis ellipticis vel oblongis, co-
loratis, 17-25 μ . longis.
Hab. in ramis dejectis Platani occidentalis, Bethlehem
Americæ septentrionalis.
49. **Sphæropsis conglobata** Sacc. *Cucurbitulæ conglobatæ* pycni- 1683
dium Fuck. Symb. p. 171. — Peritheciis transverse erumpentibus,
dense cæspitosis confluentibusque, atris, rugulosis subpapillatis, mi-
nutis; sporulis ovoideis, continuis (rarissime 1-2-septatis) fuscis,
12-15 = 5-6.
Hab. in corticibus putridis secedentibus Betulæ albæ in
Rhenogovia.
50. **Sphæropsis valsoidea** C. et Ell. in Grevillea. — Peritheciis in 1684
pustulas congestis, 2-3 subconfluentibus, epidermide cinctis, atris,
levibus; sporulis ellipticis, brunneis, 15-18 = 7,5.
Hab. in ramis Mori, socia *Dothidea moricola*, New Jersey
Americæ borealis. — An *Haplosporella*?
51. **Sphæropsis Macluræ** Cooke in Rav. Fung. Amer. n. 146. — Gre- 1685
garia, erumpens, in lineas disposita; peritheciis atris, 2-4 conge-
stis, intus albis; sporulis ellipticis, demum brunneis, leniter stria-
tis, 18-20 = 10.
Hab. in ramis Macluræ aurantiacæ, Aiken S. Carolinæ
in America boreali. — An *Haplosporella*?
52. **Sphæropsis Alni** C. et Ell. Grev. V. p. 50. — Peritheciis erum- 1686
pentibus, 3-4 congestis, brunneis, ovatis, submembranaceis; spo-
rulis magnis, ellipticis, brunneis, 25-30 = 10-16.
Hab. in ramis vivis Alni serrulatæ, New Jersey Ameri-
cæ borealis. — An *Haplosporella*?
53. **Sphæropsis carpinea** Sacc. et Br. — Peritheciis hinc inde cæspi- 1687
toso-erumpentibus, aterrimis, globoso-conicis, $\frac{1}{4}$ - $\frac{1}{3}$ mill. diam.;

sporulis oblongo-ellipsoideis, $32 \approx 16$, stipitellatis, initio hyalinis, guttulatis, dein flavo-brunneis, continuis.

Hab. in ramis emortuis Carpini Betuli pr. Troyes Galliæ. — Ad *Haplosporellam* vergit, sed perithecia discreta etsi cæspitosa.

54. **Sphæropsis brunnea** (Bon.) Sacc. *Podosporium brunneum* Bon. 1688
Abhandl. II. p. 144. — Peritheciis lentiformibus, primum fuscis, dein nigris, epidermide tectis, demum ostiolo simplici apertis, epidermidem findentibus; sporulis oblongis, brunneis, pedicellatis; basidiis cylindricis.

Hab. in ramis emortuis Fagi silvaticæ in Germania.

55. **Sphæropsis Gallæ** (Schwz.) B. et C. *Sphæria Gallæ* Schwz. Syn. 1689
Am. bor. n. 1446, Sacc. Syll. II. pag. 394. — Cæspitulis sparsis, valde elevatis; peritheciis primo confluentibus, demum semiliberis, assurgentibus, difformibus regularioribus immixtis, rugosis, papillatis, intus albo-farctis.

Hab. in gallis vetustis ramisque Quercus, Celtidis, Juglandis in Amer. bor. — Perithecia interdum crustiformi-conneta. — «An *Dothiorella?*».

56. **Sphæropsis linearis** Peck 25 Rep. p. 86. — Peritheciis minutis, 1690
subglobosis, densiuscule sparsis vel seriatim dispositis, erumpentibus, nigris; sporulis ellipticis vel oblongis, coloratis, $20-25 \mu$. long.

Hab. in ramis emortuis Quercuum, Greenbush Amer. bor.

57. **Sphæropsis Ellisi** Sacc. *Sphæropsis Pinastris* C. et Ell. in Gre- 1691
villea. — Peritheciis papilliformibus, epidermide cinctis, hinc illinc subgregariis; sporulis elongato-ellipticis, brunneis, $30 \approx 12$, vel $35-40 \approx 15$.

Hab. in ramis corticatis Pini silvestris, New Jersey Americæ borealis.

58. **Sphæropsis Pinastris** (Lév.) Sacc. *Phoma Pinastris* Lév. Ann. Sc. 1692
Nat. 1846, p. 282. — Peritheciis gregariis innatis globosis intus extusque nigris, epidermide lacerata tectis, ostiolis pertusis; sporulis ovatis, oblongis, opacis, majusculis, 1-guttatis, $10 \approx 6-7$.

Hab. ad strobilos et folia Pini silvestris prope Parisios, et Eastbourne Britannicæ.

59. **Sphæropsis anomala** B. et Br. F. of Ceyl. n. 788. — Maculis 1693
minutis aterrimis rugosis; peritheciis confusis superficialibus, depressis, minute granulatis; sporulis obovatis e stipite brevi articulo divisis, demum uniseptatis, $30-32 \mu$. longis.

Hab. in ramis Artocarpi Lakoochæ, Peradeniya Ceylon. — An *Diplodia?*

60. **Sphæropsis sarmenticola** (Speg.) Sacc. *Aplosporella sarmenticola* Speg. Fung. Arg. Pug. III. pag. 34. — Peritheciis sparsis v. gregariis, hemisphærico-conicis, atro-carbonaceis, primo tectis, dein epidermide secedente liberis, superficialibus, $\frac{1}{4}$ - $\frac{1}{5}$ mill. diam.; sporulis ovoideis v. ellipticis, rectis v. subinæquilateralibus, granuloso-farctis, amœne fuligineis, 22-24 \approx 10.

Hab. in sarmentis dejectis putrescentibus Araujæ (Physianthi) albentis in sepibus a la Boca del Riachuelo reip. Argentinae.

61. **Sphæropsis Sapii** (Speg.) Sacc. *Diplodia Sapii* Speg. F. Arg. Pug. II. n. 131. — Peritheciis hemisphærico-lenticularibus, ostiolo papillato pertusis, primo cortice tectis eaque secedente liberis, atris, $\frac{1}{5}$ - $\frac{1}{4}$ mill. diam., coriaceo-subcarbonaceis; sporulis ellipticis vel ovoideis, sæpe inæquilateralibus, utrinque obtuse rotundatis, 22-24 \approx 10-12, continuis, fuligineis.

Hab. in ramis emortuis Excæcarix (Sapii) biglandulosæ circa de la Recoleta in Argentina.

62. **Sphæropsis Bonordenii** Sacc. *Podosporium atrum* Bon. Handb. p. 227. — Peritheciis globosis, papillatis, atris, liberis, duris; nucleo pallido; sporulis globoso-ovoides, utrinque apiculatis, hinc subfusoides, atro-brunneis; basidiis elongatis, simplicibus, fasciculato-convergentibus.

Hab. in ramis in Germania.

63. **Sphæropsis fallax** (Preuss) Sacc. *Microthecium fallax* Preuss F. Hoyersw. n. 24. — Peritheciis subsphæricis, infra corticem insidentibus, gregariis, atris; nucleo subgelatinoso albo; sporulis ovatis, continuis; episporio corneo, fusco-atro, glabro, nucleo albo.

Hab. sub cortice ramorum arborum frondosarum ligno adhærens, Hoyerswerda.

64. **Sphæropsis abscondita** Mont. Syll. n. 959 et Fl. Chil., VII. p. 486, t. 10, f. 5. — Peritheciis sparsis membranaceis, globoso-depressis, cortice immersis, nunquam denudatis atris; sporulis e clavato-oblongis continuis, primo hyalinis, tandem olivaceo-brunneis, intus granulosis.

Hab. ad cortices in Chile (GAY).

65. **Sphæropsis abnormis** Sacc. *Sph. anomala* B. et C. North Am. Fungi n. 408^{bis}. — Peritheciis sparsis, nudis, hemisphæricis; sporulis magnis ebovatis e pedicellis simplicibus vel furcatis oriundis, 32 μ . longis.

Hab. in ligno putrescente in Carolina inf. Amer. bor.

66. **Sphæropsis corticalis** (Kalch. et Cooke) Sacc. *Macropodia cor-* 1700
ticalis Kalch et Cooke Grev. 1880, p. 18. — Subsuperficialis, gregaria; peritheciis subglobosis, atris, vix papillatis; sporulis ovato-globosis, fuscis, $7,5 \approx 4$.

Hab. in cortice in Africa australi.

67. **Sphæropsis Mougeotiana** Lév. Ann. Sc. Nat. 1846, p. 293. — Pe- 1701
ritheciis ovatis confertis, connatis, rugosis, atris, stipite brevi suffultis, ostioliis conicis pertusis; sporulis ovatis elongatis, obtusis continuis, subopacis.

Hab. ad truncos in silvis Carthagene Americæ merid. (herb. MOUGEOT).

68. **Sphæropsis Lecythea** (Schw.) Sacc. *Sphæria* (Diplodia) *Lecythea* 1702
Schw. Car. n. 155, Curr. Simpl. Sphær. p. 321, fig. 55. — Peritheciis nudis minutis compressis, ostiolo cylindræo, perithecium dimidium æquante; sporulis ellipsoideis, hyalino-chlorinis, 25-35 μ . longis.

Hab. in ligno carioso in Carolina Amer. bor.

II. In Dicotyledoneis herbaceis.

69. **Sphæropsis Vincæ** Sacc. et Wint. Miscell. Myc. p. 28 (sub *Di-* 1703
plodia). — Peritheciis gregariis v. subsparsis, tectis, globosis, exiguis, atris, 260-300 μ . diam., ostiolo papillato erumpente; sporulis ovatis, ovato-oblongis v. subpiriformibus, sæpe irregularibus, diu continuis fuligineis, 17-28 \approx 10-14.

Hab. in foliis caulibusque Vincæ minoris, Amanda, Ohio Amer. bor. (W. H. KELLERMANN).

70. **Sphæropsis Squieriæ** Clinton in Peck Rep. on the St. Mus. N. Y. 1704
— Peritheciis minutis, numerosis, epidermide dein longitudinaliter rupta cinctis, nigris; sporulis subglobosis, coloratis, 17-20 μ . long.

Hab. in caulibus Aristolochiæ tomentosæ, Buffalo Americæ borealis.

71. **Sphæropsis Baptisiæ** Thüm. Fung. Am. trig. Sp. n. 6. — Peri- 1705
theeciis mediis, semiimmersis, gregariis, erumpentibus, epidermide cinctis, depresso-globosis; sporulis ellipsoideis, utrinque rotundatis, simplicibus, 4,5-5 \approx 2,5-3,5, griseo-ochraceis, pellucidis.

Hab. in ramulis emortuis Baptisiæ perfoliatæ, Aiken Carol. austr. (RAVENEL). — «An *Coniothyrii* species?»

72. **Sphæropsis Isopyri** Thüm. Pilzf. Sibir. n. 795. — Peritheciis 1706
dense gregariis, hemisphærico-conicis, e stromate nigro oriundis,

aterrimis, nitidis, caulem totum sæpe obducens; sporulis longe ellipsoideis, continuis, utrinque acutatis, dilute fuscidulis, $12 = 5,5-6,5$.

Hab. in caulibus, raro etiam in foliis capsulisque subemortuis *Isopyri fumaroidis* in desertis pr. Minussinsk Sibiriae.

73. **Sphæroopsis Menispermi** Peck Rep. of the Bot. 1872, p. 86. — 1707
Peritheciis numerosis, prominentibus, nigris, initio epidermide, dein longit. fissa, tectis; ostiolo emergente; sporulis oblongis, $16-17 \mu$. longis.

Hab. in caulibus *Menispermi canadensis*, Greenbush Americæ borealis.

74. **Sphæroopsis Malvæ** Fuck. Symb. Myc. p. 397. — Peritheciis minutissimis, densissimis, atris, maculam oblongam, griseam formantibus. 1708

Hab. in caulibus siccis *Malvæ moschatae*, rarius in Rhénogovia. — «An *Phoma?*».

III. In *Monocotyledoneis et Acotyledoneis*.

75. **Sphæroopsis vaginarum** (Catt.) Sacc. *Phoma vaginarum* Catt. Mic. 1709
Ris. p. 4 (10). — Peritheciis hypophyllis nigris, subglobosis, ostiolo simplici pertusis, numerosissimis, approximatis, sæpe connatis, 150μ . latis; sporulis ovoideis vel piriformibus, continuis, gutturalis, flavis, $15 = 9$.

Hab. in vaginis foliorum *Oryzæ sativæ* in Italia boreali. — «An *Coniothyrium?*»

76. **Sphæroopsis Oryzæ** (Catt.) Sacc. *Phoma Oryzæ* Catt. Mic. Ris. 1710
p. 4. — Peritheciis liberis vel immersis, membranaceis, nigris, primo clausis, dein ore orbiculari apertis, intus pulpa sporularum repletis; sporulis gelatina immersis, globosis, simplicibus, episporio diaphano, nucleo granuloso, colorato, 14μ . diam.

Hab. in foliis vaginisque *Oryzæ sativæ* in Italia boreali — «An *Coniothyrium?*».

77. **Sphæroopsis subglobosa** Cooke in Grevillea. — Sparsa lirelliformis; peritheciis immersis, emergentibus, cuticulam elongato-fidentibus; sporulis subglobosis, brunneis, $10-12 \mu$. diam. 1711

Hab. in culmis *Bambusæ*, Demerara, Guyan. angl.

78. **Sphæroopsis decipiens** Lév. Ann. Sc. Nat. 1846, p. 294. — Peritheciis globosis, stipatis, seriatis, atris, receptaculo grumoso luteo-viridi latente immersis, ostiolis obtusis pertusis. 1712

Hab. ad culmos *Bambusæ arundinaceæ* in Java (ZOLLINGER). — An *Haplosporella?*

79. **Sphæropsis donacina** Mont. Cent. VI. n. 39, p. 51 et Syll. n. 1713
962. — Peritheciis solitariis aggregatisque cuticula tectis, globosis nigris, intus cinereis, poro apicali amplo tandem pertusis; sporulis oblongis ovoideisve, primo hyalinis, tandem luteolis, $15 \approx 10$, sporophoris $10-30 \mu$. longis fultis.
Hab. in vaginis siccis Arundinis Donacis in Gallia australi (CASTAGNE).
80. **Sphæropsis ambigua** Mont. Cent. VI. n. 91, p. 308 et Syll. n. 967. 1714
— Peritheciis innatis, orbiculato-oblongis, depressis, seriato-subconfluentibus fusco-atris, ostiolo papillari vel conico obsoleto instructis, vertice tandem lacero-dehiscentibus; sporulis elliptico-fusiformibus, brevibus, fuscidulis, $15 \approx 5$.
Hab. in culmo repente Zeæ Maydis in agro Petrocoriensi (DURIEU).
81. **Sphæropsis Dracænarum** Penz. et Sacc. F. Mortol. n. 30, tav. V. 1715
fig. 15. — Peritheciis sparsis, hypodermicis, majusculis, $220-240 \mu$. diam., aterrimis, contextu parenchymatico, carbonaceis, globosis, haud depressis; sporulis breviter ellipticis vel ovoideis, brunneis, centro guttulam hyalinam foventibus, levibus, $16-20 \approx 10-14$; basidiis breviter cylindraceis, $10-15 \approx 5-6$, hyalinis.
Hab. in squamis exsiccatis trunci Dracænæ indivisæ, Mortola Italiæ borealis.
82. **Sphæropsis Rusci** Thüm. Contr. Myc. Lus. n. 549. — Peritheciis 1716
dense gregariis, lenticulari-conicis, subapplanatis, fusco-nigris; sporulis longe ellipticis vel interdum clavatis, utrinque subrotundatis, simplicibus, bi-trinucleatis, rectis vel subcurvatis, dilute olivaceis, $15-16 \approx 5-6,5$.
Hab. in ramulis aridis Rusci aculeati, Matta d'Alcarraques pr. Coimbra Lusitaniæ (MOLLER).
83. **Sphæropsis marginata** B. et C. North Am. Fungi n. 414. — 1717
Peritheciis tectis ocellatis, sparsis; sporulis fusiformibus, elongatis, angustis, brunneis, 25μ . long.
Hab. in foliis Yuccæ in Carolina inferiore Amer. bor.
84. **Sphæropsis paradisiaca** Mont. Ann. Sc. Nat. 1855, p. 163 et Syll. 1718
n. 960. — Epiphylla, punctiformis; peritheciis minimis, $\frac{1}{4}$ mill. diam., gregariis, confertis, globoso-depressis, epidermide tectis, atris, apice poro pertusis, nucleo albo; sporulis oblongis, $30 \approx 13$, limbo lato cinctis, tandem brunneolis, sporophoro brevi fultis.
Hab. in foliis Musæ paradisiacæ, Guyana (LEPRIEU:) et Coimbra in Lusitania (MOLLER). — Forma lusitanica, sec. Thüm.

Contr. Myc. Lus. n. 321, peritheciis jugiter liberis prædita est; an diversa?

85. **Sphæropsis brasiliensis** (Speg.) Sacc. *Haplosporella brasiliensis* 1719

Speg. Fung. Arg. Pug. III. pag. 34. — Peritheciis hemisphæricoglobosis, subepidermicis, atris, $\frac{1}{4}$ – $\frac{1}{5}$ mill. diam.; sporulis ellipticis v. ovoideis, intense fuligineis, 20 \approx 10–12, in sterigmatibus piriformibus, 12–18 \approx 6–8, hyalinis acrogenis.

Hab. in petiolis foliorum *Thrinacis brasiliensis* in hortis prope el Retiro in Argentina.

86. **Sphæropsis Tricorynes** Berk. et Broome Fungi from Brisbane, 1720

Queensland p. 68. — Peritheciis minutis nigris, in parenchymate foliorum immersis; sporulis ellipticis, 30 μ . longis.

Hab. in foliis *Tricorynes ancipitis*, Endeavor River in Australia.

87. **Sphæropsis parasitans** B. et R. North Am. Fung. n. 410. — 1721

Peritheciis minutis sparsis papilliformibus; sporulis ellipticis binucleatis, brunneis, 7–8 μ . longis.

Hab. in *Hypoxylo* quodam, cujus forte est pycnidium, Co-toosa Springs Americæ borealis.

B) *Macroplodia* Sacc.

Sporulæ magnæ, mucò obvolutæ (Cfr. n. 29).

88. **Sphæropsis Ulmi** Sacc. et Roum. Reliq. Libert. IV. n. 121. — 1722

Peritheciis massarioideis, cortici innatis, gregariis, $\frac{1}{2}$ mill. diam.; sporulis oblongo-fusoideis, utrinque subrotundatis, 60–70 \approx 14; fuligineis, continuis, strato mucoso hyalino cinctis, dein exsiliendo matricem fœdantibus.

Hab. in cortice *Ulmi*, sistens pycnidium *Massarice Ulmi*, in Arduennis (LIBERT).

CONIOTHYRIUM Corda Icon. IV. p. 38 emend., Sacc. Mich. II. p. 7.

(Etym. *conis* pulvis (sporulæ) et *thyreos* scutum (perithecium), h. e. perithecium sporulas includens). — Perithecia subcutaneoerumpentia vel subsuperficialia, globulosa vel depressa, papillata, membranacea vel subcarbonacea, atra. Sporulæ globosæ vel ellipsoideæ exiguæ, continuæ, fuligineæ, basidiis brevibus simplicibus vel obsoletis suffultæ.

1. *In Dicotyledoneis arboreis.*

1. **Coniothyrium olivaceum** Bon. in Fuck. Symb. p. 377, Sacc. Mycol. 1723

Ven. p. 191 et Mich. I. p. 205. — Peritheciis sparsis, primitus

epidermide tectis, demum erumpentibus, globosis, majusculis, 300-350 μ . diam., papillatis, ostiolatis; sporulis elliptico-oblongis, eguttulatis, continuis, 5-8 \approx 2-5, brunneo-olivaceis.

Hab. in ramulis, rarius foliorum arborum sequentium, nec non Sambuci racemosæ, Araujæ, Wistarïæ, Cycadis, Eucalypti in Germania, Italia, Gallia, Lusitania, America australi. — Var. **Philadelphii coronarii**: peritheciis globosis, majusculis, initio velatis, dein subliberis, atris, conico-papillatis; sporulis ovoideo-oblongis, 6 \approx 3, olivaceo-fuscis. — **Rhois radicans**: perith. ut supra; sporulis 6-7 \approx 3 $\frac{1}{2}$ -4. — **Hederæ**: perith. ut supra; sporulis 5-8 \approx 4. — **Loniceræ Xylostei**: perith. ut supra; sporulis 6-7 \approx 5. — **Carpini Betuli**: perith. ut supra; sporulis 6 \approx 3. — **Populi nigræ**: perith. ut supra; sporulis 5-6 \approx 3. — **Catalpæ syringifoliæ**: perith. ut supra; sporulis 6-7 \approx 3 $\frac{1}{2}$. — **Hesperidum**: perith. ut supra sed vix papillatis; sporulis 5-8 \approx 2-4. — **Amorphæ fruticosæ**: perith. ut supra; sporulis 8 \approx 4-5. — **Sophoræ japonicæ**: perith. ut supra; sporulis 6-7 \approx 3-3 $\frac{1}{2}$. — **Sarothamni**: perith. ut supra; sporulis 5-6 \approx 3. — **Evonymi japonici**: perith. ut supra; sporulis 6-7 \approx 5. — **Ailanthi glandulosæ**: perith. ut supra; sporulis 7-8 \approx 3 $\frac{1}{2}$ -4 $\frac{1}{2}$. — **Paliuri aculeati**: perith. ut supra et cæspitulosis; sporulis 6-8 \approx 3-4. — **Magnolïæ grandifloræ**: (in foliis) perith. ut supra; sporulis 5-7 \approx 3-4. — **Celtidis australis**: perith. ut supra; sporulis 6 \approx 2 $\frac{1}{2}$ -3. **Calycanthi floridi**: perith. ut supra; sporulis 5-6 \approx 4-5. — **obovoideum** Karst. Hedw. 1880, p. 61: peritheciis obovoideis, confertis, subsuperficialibus; sporulis sphæroideo-ellipsoideis, 4-6 \approx 3-4, vel diam. 3-5 μ . — In cortice et ligno ramorum Populi tremulæ in Fennia.

2. **Coniothyrium Fuckelii** Sacc. Fungi Ven. novi vel critici, Ser. V. 1724 p. 200, Mich. I. p. 207. — Peritheciis hypodermeis, sparsis, atherimis, 180-200 μ . diam., globoso-depressis; ostiolo vix prominente; sporulis numerosissimis, globulosis vel breve ellipticis, 2,4-5 \approx 2-3,5, olivaceis vel dilute fuligineis; basidiis non visibilibus.

Hab. in ramis emortuis vel languidis, corticatis Rubi (sp. glob. 3-4 μ . d.), Ampelopsidis (sp. glob. 4 μ . d.), Tecomæ (sp. 3-4 \approx 2,5-3), Rosarum (sp. 3-5 \approx 3), Robiniæ (sp. 3 \approx 2,6), Berberidis (sp. globoso-subangulosæ, 4 μ . d.), Helianthemis (sp. 3-3,5 \approx 2), in foliis Citrorum arescentibus (sp. 2,5-3 \approx 1,5-2,5) in Italia, Gallia, Germania, Austria. — Sistit spermogonium *Leplosphæriæ Coniothyrii*.

3. **Coniothyrium insitivum** Sacc. Mich. I. p. 206. — Peritheciis (ge- 1725

nuinis?) in acervulos conoideos subaggregatis, tectis, sæpe difformibus, aterrimis, nigrofarctis; sporulis oblongo-ovatis vel ovoideo-reniformibus, $4\frac{1}{2}$ -7 \approx $2\frac{1}{2}$ -4, olivaceo-fuligineis, in basidiis brevissimis acrogenis.

Hab. in ramulis Gleditschiæ, Albizzia, Berberidis, Rhamni cathartici, Ulmi campestris et Ailanthi glandulosæ, Syringæ, Pruni Padi in Italia boreali et Gallia. — Membrana perithecii deesse videtur, sed nuclei sunt definite efformati, ergo non *Melanconii* species. Forma *Syringæ* præbuit basidia bacillaria 15-16 \approx 2, hyalina. *Con. incrustans* Sacc. huic affine est, sed differt sporulis globosis, 5 \approx 4, fuligineis hyalino-1-guttulatis.

4. **Coniothyrium Rosarum** Cooke et Hark. in Grevillea n. 64. — Gre- 1726
garium, tectum, demum corticem stellato-fidens; sporulis profusis subglobosis ovatisve, continuis, pallide fuscis, 4 \approx 3.

Hab. in ramis Rosarum in California.

5. **Coniothyrium Cerasi** Pass. Ancora della Nebbia dei Gelsi etc. p. 3. 1727
— Peritheciis minutissimis, sparsis, globosis, epidermide velatis, vertice vix denudatis vel tandem epidermide elapsa superficialibus, atris; sporulis subrotundis vel oblongis, 5-10 \approx 5, olivaceis.

Hab. ad ramulos repente arefactos Pruni Cerasi, Parma in Italia bor. — Dantur quoque perithecia hinc inde sparsa, multo grandiora, sporulis similibus fœta.

6. **Coniothyrium Hederæ** (Desm.) Sacc. Mich. I. p. 204, *Phoma He-* 1728
deræ Desm., Cooke Handb. p. 418, *Melanconium Hederæ* Preuss Hoyersw. p. 717, n. 312. — Peritheciis lenticularibus, majusculis, epidermide nigrificata velatis; sporulis e globoso subovoideis, 6-8 \approx 4,5-6, sæpius subangulosis, 1-2-guttulatis, olivaceo-fuscis, guttulis grandiusculis pallidioribus, initio stipitellatis.

Hab. in ramulis foliisque Hederæ Helicis in Britannia, Gallia et Italia boreali.

7. **Coniothyrium Bergii** Speg. F. Arg. Pug. III. n. 114. — Peritheciis 1729
sparsis, subepidermicis, atris, 80-100 μ . d., prominulis, membranaceis, carbonaceis, ostiolo impresso-pertusis; sporulis ellipticis, utrinque acute rotundatis, 10-12 \approx 5-6, fuligineis, simplicibus.

Hab. ad spinas vivas Berberidis heterophyllæ in campis prope Santa Cruz de Patagonia (D.^r BERG). — Cum *C. Fuckelii* Sacc. f. *Berberidis* (Mich. II. p. 207) non comparandum.

8. **Coniothyrium fuscidulum** Sacc. Mich. I. p. 205. — Peritheciis gre- 1730
gariis, in fibris ligneis nidulantibus erumpentibusque, globosis,

atris; sporulis e globoso ovoideis, 4-5 = 2-3,5, 1-guttulatis, olivaceis.

Hab. in ramis decorticatis Sambuci nigræ in Italia boreali et Gallia, socio sæpe *Melanommate fuscidulo* Sacc., cujus videtur spermogonium. — Forma **Galegæ**: sporulis 5-6 = 3. In ejusdem caule in Gallia.

9. **Coniothyrium Sarothamni** (Thüm.) Sacc. *Phoma Sarothamni* Thüm. 1731

Myc. Univ. n. 576. — Peritheciis gregariis, globosis, epidermide tectis, dein liberis, applanatis, nigris; sporulis ovatis vel ovoideis, unicellularibus, sine nucleo, 5,5-7 = 3-3,5, pellucidis, dilute fuscis.

Hab. in ramulis præcipue tenuibus, emortuis Sarothamni scoparii raro, Bayreuth Baviaræ. — An *Coniothyrium*?

10. **Coniothyrium sublineatum** Sacc. et Malbr. Mich. II. p. 624. — 1732

Peritheciis secus angulos caulium subseriatis, globulosis, subcutaneis, nigris, $\frac{1}{6}$ mill. diam.; ostiolo obtusiusculo, erumpente; sporulis oblongis vel subfusoides, utrinque acutiusculis, 12-13 = 3,5-4, fuliginosis.

Hab. in ramulis emortuis Sarothamni scoparii, Brionne in Gallia.

11. **Coniothyrium sphærospermum** Fuck. Symb. Myc. p. 377. — Pe- 1733

ritheciis sparsis, punctiformibus, in macula exarida erumpentibus, globosis, papillatis, atris; sporulis simplicibus, globosis, numerosis, circiter 2-3 μ . diam., flavis.

Hab. in caulibus siccis Cytisi sagittalis rarius in Rhœnogovia et in Jura Helvetiæ.

12. **Coniothyrium cytisellum** (Pass. et Thüm.) Sacc. *Phoma cytisella* 1734

Pass. et Thüm. Contr. Myc. Lus. n. 561. — Peritheciis gregariis, interdum confluentibus, primo tectis, demum disciformi-erumpentibus, aterrimis; sporulis late oblongis, ad polos obscure nucleatis, sterigmatibus longis fultis, dilute fuscidulis, pellucidis, 4,5-5,5 = 3.

Hab. ad ramulos aridos Cytisi albi, Villa Franca prope Coimbra in Lusitania (MOLLER).

13. **Coniothyrium globuliferum** Rabh. Hedw. 1873, p. 60. — Peri- 1735

theciis epiphyllis, hinc inde maculiformi-congestis, erumpenti-prominulis, hemisphærico-globulosis, subastomis, nigris, nitidulis; sporulis globosis, 7 μ . diam., levibus, fuscis, guttulâ unicâ centrali præditis.

Hab. in foliis Bauhiniæ Vahlîi in horto botanico Calcutta Indiæ orient. (S. KURZ).

14. **Coniothyrium fœdans** Sacc. Mich. I. p. 95. — Peritheciis grega- 1736

riis vel hinc inde aggregatis, cortice nidulantibus, nigris, faretis, dein cavis; ostiolo impresso, minuto; peritheciis contextu parenchymatico olivaceo-fuligineo, distincto; sporulis copiosis, ut plurimum perfecte globosis, 2-3 μ . d., rarius globoso-ellipsoideis, 4 \approx 3, initio brevissime stipitatis, hyalinis, denique olivaceis, 1-guttulatis, tandem effusis corticemque late olivatro-inquinantibus.

Hab. in ramis corticatis Robiniæ Pseudacaciæ, Mori albæ et Quercus in Gallia, in ramis Juglandis regiæ in Italia bor. — A *Con. Fuckelii* Sacc. peritheciis majoribus, sporulis globosis minoribus, denique inquinantibus recedit. Habitus *Melanconii*, sed perithecia adsunt.

15. **Coniothyrium punctum** Cooke et Harkn. in Grevillea n. 64. — 1737

Sparsum, subliberum, maculis nigris insidens; peritheciis minimis, depressis, atris, 150 μ . diam.; sporulis subglobosis, pallide fuscis, 5 μ . diam.

Hab. in ramis decorticatis Acaciæ in California.

16. **Coniothyrium decipiens** Cooke et Harkn. in Grevillea n. 64. — 1738

Erumpens, prominulum, subgregarium; peritheciis globosis, atris, opacis, subrugosis, demum superficialibus; sporulis ovalibus subglobosisve continuis, pallide fuscis, 4 \approx 3.

Hab. in ramis Acaciæ in California.

17. **Coniothyrium Leguminis** Sacc. Mich. II. p. 105. — Peritheciis 1739

gregariis, epidermide velatis, globoso-depressis, 100 μ . diam., poro amplo pertusis; sporulis oblongo-ellipsoideis, 6-7 \approx 4, 2-guttulatis, olivaceo-fuscis.

Hab. in leguminibus dejectis Robiniæ Pseudacaciæ in Gallia prope Rouen (LETENDRE).

18. **Coniothyrium Jasmini** (Thüm.) Sacc. *Phoma Jasmini* Thüm. Contr. 1740

Myc. Lus. n. 152. — Peritheciis dense gregariis, minutis, globosis, atris in macula irregulari, arescendo-albicante, fusco-cincta, magna, plerumque confluyente; sporulis ellipsoideo-globosis, utrinque rotundatis, enucleatis, numerosissimis, fuscescentibus, 6-8 μ . diam.

Hab. in ramulis vivis Jasmini officinalis prope Lisboa in Lusitania (DE VEIGA).

19. **Coniothyrium Castagnei** Sacc. Cfr. Fuck. Symb. App. II. p. 24 1741

ut spermog. *Lept. Jasmini*. — Peritheciis spuris in ramulorum aridorum superiore parte sparsis, sub epidermide nidulantibus, punctiformibus, orbicularibus, scutiformibus, atris, demum vertice prominulis et regulariter perforatis seu irregulariter dehiscentibus; sporulis plerumque ovatis oblongisque, continuis, fuscis, 6-8 \approx 5-6.

- Hab.* in ramulis superioribus siccis *Jasmini fruticantis* in Rhenogovia.
20. **Coniothyrium vagabundum** Sacc. Fung. V. N. Ser. II. p. 318, sub 1742 n. 61, *Leptosphaeriæ vagabundæ* st. spermog. — Peritheciis nigro-farctis, sphærioidæis vel subangulosis, immersis; sporulis oblongis, $4 \approx 1,5$, olivaceis.
Hab. in ramis Corni sanguineæ, Selva prope Treviso in Italia boreali.
21. **Coniothyrium Montagnei** Cast. in Ann. Sc. Nat. 1849, p. 304. — 1743 Peritheciis sparsis, minutissimis, 50μ . diam., ovato-globosis, depressis, tandem ruptis, atris; sporulis sphæricis, olivaceo-umbrinis, 10μ . diam., episporio crasso; basidiis nullis vel obsoletis.
Hab. in ramulis emortuis *Elæagni angustifolii*, inque caulibus, pedunculis fructibusque *Bupleuri fruticosi* prope Montaud-lès-Miramas in Gallia (CASTAGNE).
22. **Coniothyrium Aucubæ** Sacc. Fungi V. N. Ser. IV. p. 4, sub n. 8 1744 ut status micropycnidicus *Physalosporæ pustulatæ* Sacc. — Peritheciis gregariis, subcutaneis, globulosis, vix papillatis, intus atro-nucleatis; sporulis ovoideis, $6 \approx 4-4,5$, fuligineis.
Hab. in ramis ramulisque *Aucubæ japonicæ*, Padova in Italia boreali.
23. **Coniothyrium Diplodiella** (Speg.) Sacc. *Phoma Diplodiella* Speg. 1745 Amp. n. 4. — Maculis dilute cinerescentibus, marginibus subfuligineis, rotundatis vel irregulariter oblongis, 2-8 mill. magn., centro punctis atris densiusculis ornatis; peritheciis gregariis, subepidermicis e globoso-lenticularibus, ostiolo impresso pertusis, tenuibus membranaceis, fuligineis, 100-150 μ . diam.; sporulis ellipticis vel ovoideis, quandoque subnavicularibus, fuligineis, 1 vel 2 guttulis præditis, utrinque obtusiusculis, 7-11 $\approx 5,5$, basidiis hyalinis filiformibus suffultis.
Hab. in baccis maturis *Vitis viniferæ*, præcipue varietatis *Rabosa*, Conegliano in Italia boreali.
24. **Coniothyrium phacidioides** Speg. F. Arg. Pug. IV. n. 298. — Ma- 1746 culis latiusculis, difformibus, elongatis, determinatis, albis vel albo-griseis; peritheciis sæpius centralibus, laxè gregariis, applanato-lenticularibus, subangulosis, 150-180 μ . diam., epidermide tectis, eaque adnatis, atris, per ætatem varie oblitteratis, glabris; sterigmatibus dense constipatis, filiformibus, 30 ≈ 1 , hyalinis, simplicibus; sporulis acrogenis, ellipticis, utrinque obtusiusculis, 6-10 $\approx 3-5$, rectis vel inæquilateralibus, fuligineis.

Hab. in sarmentis dejectis putrescentibus Rubi fruticosi, Boca del Riachuelo in Argentina.

25. **Coniothyrium fusco-atrum** Penz. Sacc. Mich. II. p. 440. — Pe- 1747
 ritheciis sparsis vel laxe gregariis, primum epidermide tectis, de-
 mum erumpentibus, globosis, atris, majusculis, 360-420 μ . diam.;
 ostiolo vix prominente; sporulis ut plurimum perfecte globoso-
 sphæricis vel breve ellipticis, atro-fuscis, eguttulatis, 5-7 \approx 4,5-5.

Hab. in ramulis siccis Citri Aurantii in frigidariis, Padova Italiæ borealis.

26. **Coniothyrium Callicarpæ** Cooke Grevill. 1884, n. XII. p. 22. — 1748
 Sparsum, tectum, demum cortice fisso-erumpens; peritheciis atris,
 subdepressis; sporulis globosis, pallide fuscis, 4 μ . diam.

Hab. in ramis Callicarpæ in Carolina infer. Amer. sept.

27. **Coniothyrium cæspitosum** Sacc. Mich. I. p. 206. — Dothideoi- 1749
 des; peritheciis globosis, papillulatis, erumpentibus, in cæspitulos
 dense aggregatis et e mutua pressione sæpe angulosis, atris; con-
 textu laxe celluloso ferrugineo; sporulis e globoso ovoideis, sæpius
 basi subapiculatis, 8-9 \approx 6-8, e hyalino dilute flavidis.

Hab. in ramulis Tamaricis gallicæ, Verona (A. MASSALONGO), Conegliano Ital. bor. (SPEGAZZINI) et in Gallia (THERRY).

28. **Coniothyrium subradicale** Karst. Hedw. 1884, p. 18. — Perithe- 1750
 ciis cæspitosis, per peridermium erumpentibus, subsphæroideis, sub-
 astomis vel papillatis, atris, minimis; sporulis ellipsoideis, utrinque
 sæpe attenuatis, simplicibus, rectis, flavescentibus, 12-20 \approx 7-8,5.

Hab. in radice denudata Tiliæ ulmifoliæ prope Aboam.

29. **Coniothyrium australe** Sacc. Mich. I. p. 206. — Peritheciis cortice 1751
 nidulantibus, epidermidem pustulatim breve elevantibus, e fibris
 corticalibus mutatis conflatis (ergo spuriis?), ochraceis; sporulis
 oblongis, 12 \approx 7, basi cuneatis, apice inæqualiter obtusatis, 3-plu-
 riguttulatis e luteo pallide ochraceis, in basidiis brevibus, fasci-
 culatis acrogenis.

Hab. in ramulis Paliuri aculeati, Vittorio in Italia bor. —

Var. β . **Tiliæ** Sacc. Mich. II. p. 624: peritheciis dense gregariis sub-
 cutaneis; sporulis late ovatis, 12-14 \approx 7-9, uniguttatis, fuligineo-
 atris. — In ramis Tiliæ europææ pr. Rouen Galliæ (LETENDRE).

30. **Coniothyrium microscopicum** Sacc. Mich. I. p. 49, *Cookellæ mi-* 1752
croscopicæ st. sperm. — Peritheciis punctiformibus, gregariis, su-
 perfacialibus, dimidiato-applanatis, ambitu irregularibus, astomis;
 sporulis globosis vel obtuse angulosis, 7-8 μ . diam., initio 1-gut-
 tulatis, hyalinis, dein ochraceo-fuligineis.

Hab. in pagina inferiore foliorum languidorum *Quercus pedunculatæ* in silva Montello Italiæ bor.

31. **Coniothyrium quercinum** (Bon.) Sacc. *Clinterium quercinum* Bon. 1753

Abhandl. Geb. der Mykologie II. p. 145. — Peritheciis globosis, semiimmersis, epidermide primum tectis, gregariis, atris, semper clausis; sporulis globosis, dilute fuscis, intus granulosis, terminalibus; basidiis simplicibus, parce ramosis.

Hab. in ramis quercinis in Germania.

32. **Coniothyrium scutatum** (Preuss) Sacc. *Dirimosperma scutatum* 1754

Pr. F. Hoyersw. n. 303. — Peritheciis lentiformibus, innatis, tenuibus, membranaceis, papillatis; basidiis continuis; sporulis ova-
tis, intense fuscis.

Hab. in cortice *Populi*, Hoyerswerda.

33. **Coniothyrium populinum** Schulz. et Sacc. *Micr. Slav.* n. 28, Schulz. 1755

Ill. Fung. Slav. n. 9. — Peritheciis sparsis, globoso-depressis, minutis, centro dein poro irregulari dehiscentibus; sporulis globosis, ochraceis, 5-8 μ . diam.; basidiis..... non visis.

Hab. in ramis decorticatis *Populi*, Eperjes in Slavonia.

34. **Coniothyrium syconophilum** Schulz. et Sacc. *Micr. Slav.* n. 27, 1756

Schulz. Ill. Fung. Slav. n. 54. — Peritheciis subcutaneis, globosis, ostiolo papillato erumpente, $\frac{1}{4}$ - $\frac{1}{3}$ mill. diam., nigro-faretis; sporulis ellipsoideo-oblongis, 1-nucleatis, 5-6 μ . longis, fuligineis, basidiis bacillaribus, sporâ duplo longioribus, suffultis.

Hab. in ramis corticatis *Fici Caricæ* prope Vinkovce in Slavonia.

35. **Coniothyrium botryosphærioides** Sacc. et Br. — Peritheciis in 1757

cæspites erumpentes, crassos, $1\frac{1}{2}$ - $2\frac{1}{2}$ mill. diam., dense collectis, nigris, globulosis, obsolete papillatis, $\frac{1}{3}$ mill. diam.; sporulis ovoideis, 5-6 = 4, fuligineis.

Hab. in ramis emortuis *Populi* prope Troyes Galliæ.

36. **Coniothyrium eurotioides** Sacc. *Mich.* II. p. 105. — Peritheciis 1758

gregariis, globulosis, $\frac{1}{10}$ mill. diam., superficialibus, pallidis, pertusis; sporulis oblongo-ovoideis, 7-9 = 5, utrinque rotundatis, 8-9 = 5, 2-guttulatis, fuscidulis.

Hab. in ramis *Salicis*, *Rubi*, socia *Letendrea eurotioides*, cujus certe spermogonium, prope Rouen Galliæ (LETENDRE). — An ad *Sphærospideas nectrioides* ducendum?

37. **Coniothyrium?? abnorme** Sacc. *Mich.* II. p. 281. — Peritheciis 1759

subsuperficialibus, dense gregariis carbonaceis, globosis, majusculis, 1 mill. diam., atronitidis, astomis, contextu anguste parenchyma-

tico (saltem ita viso) fusco, intus denique roseo-flocculosis; sporulis perfecte globosis, magnitudine variis, 10-18 μ . diam., 1-raro 2-guttulatis, fuligineis.

Hab. in ligno putri fagineo intus sæpe (ob *Coniothyrium*?) cruentato in silva Cansiglio Italiae bor.

38. **Coniothyrium Platani** Sacc. Mich. I. p. 206. — Peritheciis glo- 1760
bulosis, subcutaneis, vix erumpentibus, nucleo farcto atro; sporulis oblongo-ovoideis, 3 = 1½, olivaceis, basidiis cylindraceutis, simplicibus ramulosisque fultis.

Hab. in ramis corticatis Platani orientalis, Conegliano Italiae bor. (SPEGAZZINI).

39. **Coniothyrium mixtum** Fuck. Symb. Myc. p. 377. — Peritheciis 1761
subimmersis, sparsis, globosis compressisve, papillatis, atris; sporulis simplicibus, aliis ovatis, aliis globosis, minutis, 7 = 4.

Hab. in ramis putridis decorticatis Platani orientalis in Rhenogovia.

40. **Coniothyrium paradoxum** (Brun.) Sacc. *Phoma paradoxa* Brunaud 1762
in Rev. Myc. IV. p. 98. — A *Phoma Broussonetiæ* Sacc. differt sporulis obovatis, 4 = 2, brunneis.

Hab. in ramis siccis Broussonetiæ papyriferae, Saintes Galliae.

41. **Coniothyrium anserinum** Sacc. F. Ven. Ser. IV. p. 19. — Peri- 1763
theciis globoso-angulosis, nigro-farctis, ligno-immersis; sporulis ellipsoideis, fuligineis, 5-5,5 = 2,5.

Hab. in ramis decorticatis Broussonetiæ papyriferae et Fici Caricæ, Selva, Treviso in Italia bor., et in Gallia.

42. **Coniothyrium incrustans** Sacc. Fungi Ven. novi vel crit. Ser. IV. 1764
p. 14, *Thyridarice incrustantis* st. sperm. — Peritheciis e sphæroideo angulosis, rugulosis, tectis, nucleo nigro fætis, hyphis fuligineis parvis cinctis; sporulis ovoideis, initio hyalinis stipitellatis, dein fuscis, 5 = 3-4.

Hab. in ramis corticatis Broussonetiæ, Albizziae, Iulibrissin, Rhois typhinæ, Juglandis regiae in agro tarvisino et patavino Ital. borealis.

43. **Coniothyrium ulmeum** Karst. Hedw. 1884, p. 63. — Peritheciis 1765
per corticem erumpentibus, cæspitosis, difformibus, inæqualibus, atris, astomis, 0,4 mill. d.; sporulis ellipsoideis, flavidis, 6-7 = 3-4.

Hab. in ramis emortuis Ulmi ad Aboam Fenniae.

44. **Coniothyrium albistratum** (Peck) Sacc. *Phoma albistrata* Peck 1766
Bot. Gaz. Amer. 1880, p. 33. — Peritheciis minutis, 170-200 μ . d.,

strato tenui, albido, crustaceo insitis, sparsis, conicis vel subglobosis, subliberis, a matrice facile secedentibus, nigris; sporulis ovato-ellipsoideis, leniter coloratis, coacervatis, brunneis, binucleatis, $5-7,5 \approx 4-5$.

Hab. in cortice Thujæ orientalis, Vermont Amer. bor. — Incertum an stratum stromaticum proprium sit vel heterogeneum.

45. **Coniothyrium pallido-fuscum** Sacc. Mich. II. p. 105. — Peritheciis sparsis, hemisphæricis, 90-100 μ . diam., epidermide velatis; sporulis ellipsoideis, $5 \approx 3$, pallide fuscidulis. 1767

Hab. in foliis Araucariæ brasiliensis, Paris Galliæ, una cum *Pestalozzia funerea* (ROUMEGUÈRE).

46. **Coniothyrium oospermum** (Fuck.) Sacc. *Phoma ovisperma* Fuck. 1768
Symb. p. 161. — Peritheciis sparsis, subliberis, punctiformibus, parum compressis, hemisphæricis, atris, ostiolo subtilissimo compresso; sporulis ovoideis, continuis, $7 \approx 4$, flavis.

Hab. in ligno putri Pini in Rhenogovia. — Spermogonium *Teichosporæ brevirostris*.

47. **Coniothyrium dispersellum** Karst. Hedw. 1884, p. 41. — Peritheciis dispersis, inter fibras ligni liberis, rotundatis, astomis, demum ore lato apertis, mollibus, tenuissimis, nigrescentibus, 0,2 mill. diam.; sporulis ovoideis vel ellipsoideis, sæpe inæqualibus, hyalinis, in olivaceum vel olivaceo-fuscum nonnihil vergentibus, $5-8 \approx 3-4,5$. 1769

Hab. in ligno pineo, Padasjoki Fennicæ (EDM. WAINIO).

48. **Coniothyrium colliculosum** (Fr.) Sacc. Mich. II. p. 104, *Sphaeronæma colliculosum* Fr. — Peritheciis majusculis, $\frac{1}{3}$ mill. diam., globoso-depressis, denique sub-superficialibus; sporulis globoso-ellipsoideis, $6-8 \approx 5$, fuligineis. 1770

Hab. in ligno abietino denudato in Vogesis Galliæ. — An idem ac *Sphaeronæma colliculosum*.

49. **Coniothyrium glomerulatum** Sacc. Mich. I. p. 209. — Peritheciis innato-erumpentibus, hinc inde 2-5-glomerulatis, globosis, vix papillatis, $\frac{1}{10}$ mill. diam., aterrimis; sporulis ovoideis, $3 \approx 2$, olivaceo-fuligineis. 1771

Hab. in bracteis strobilorum Abietis excelsæ prope Rouen Galliæ (LETENDRE).

50. **Coniothyrium conorum** Sacc. et Roum. Mich. II. p. 624. — Peritheciis gregariis, innato-erumpentibus, globosis, 300 μ . diam., minute pertusis; sporulis globoso-ellipsoideis, $7-9 \approx 5\frac{1}{2}-6\frac{1}{2}$, ochraceo-fuligineis, 1-guttatis. 1772

Hab. in squamis conorum Abietis in Arduennis (LIBERT).

51. **Coniothyrium lignorum** Sacc. *Clisosporium lignorum* Fr. S. M. III. 1773
p. 335 et in Hedw. 1864, p. 74. — Peritheciis minimis, fusco-nigris, erumpentibus, membranaceis, globoso-depressis, ostiolo subpapillato pertusis; sporulis minimis subglobosis ovoideisve; basidiis nullis visis; cirris madore exsiliantibus longis, fuliginis.
- Hab.* in asseribus ligneis in Germania et Suecia. — Perithecia subcoherentia, tenuissimæ maculæ nigræ (mycelio sine dubio) passim insidentia.
52. **Coniothyrium myriocarpum** (Fries) Sacc. *Sphæria myriocarpa* 1774
Fr. S. M. II. p. 459. — Confertum, atrum, nitidum; peritheciis minimis, globosis, levibus, astomis; sporulis ovoideis vel ovoideo-oblongis, continuis, majusculis, fuscis.
- Hab.* in lignis ad terram dejectis in Suecia, Germania, Gallia. — Omnino superficiale, nunc confertum, nunc etiam sparsum, levissimum, vetustum leviter collabitur. Ostiolum obsoletum, demum pertusum. — β . **abietinum** Karst. Symb. Myc. XV. p. 156: sporulis ovoideis subinde inæquilateralibus, fuliginis, eguttulatis, 11-15 \approx 5-8. — In ligno Abietis, Mustiala Fennicæ.
53. **Coniothyrium rubellum** Cooke in Grevillea. — Sparsum; peritheciis membranaceis, parvulis, brunneis, in maculis roseis nidulantibus; sporulis ovoideis, pallido-fuscis, 5 \approx 3. 1775
- Hab.* in ligno decorticato, New York Amer. bor.
54. **Coniothyrium coloratum** (Peck) Sacc. *Phoma colorata* Peck Bot. 1776
Gaz. 1880, p. 34. — Peritheciis minutis, 150-200 μ . diam., subliberis, hemisphæricis vel subconicis, subinde (in sicco) depressis, nigris; sporulis minutis, late ellipsoideis, continuis, coloratis, 5-6,2 μ . longis, coacervatis brunneis.
- Hab.* in ligno emortuo, Vermont in Amer. bor. (C. G. PRINGLE).

II. In Dicotyledoneis herbaceis.

55. **Coniothyrium Crepinianum** Sacc. et Roum. Reliq. Libert. n. 113. 1777
— Peritheciis in ligno superficie nigrificato, basi insculptis, globoso-conicis, atris, $\frac{1}{2}$ mill. d. obtusiusculis; sporulis ovato-ellipsoideis, olivaceo-fuliginis, 5 \approx 3.
- Hab.* in caule putri Brassicæ in Arduennis (LIBERT).
56. **Coniothyrium hortense** Sacc. et Malbr. Mich. II. p. 624. — Pe- 1778
ritheciis dense gregariis, subcutaneis, globuloso-depressis, punctiformibus, 80-100 μ . diam., pertusis, ostiolo vix erumpente; sporulis ellipsoideis, 12-14 \approx 7-8, continuis, atrofuliginis.
- Hab.* in caulibus emortuis Pisorum prope Rouen in Gallia (MALBRANCHE).

57. **Coniothyrium subolivaceum** Sacc. *Clisosporium olivaceum* Bon. 1779
Abhandl. p. 140. — Peritheciis globosis vel subglobosis, scabris, ostiolo simplici pertusis, primo pallidis, dein olivaceo-nigris, epidermide tectis; basidiis nullis; sporulis ovoideis, olivaceo-viridulis; mycelio albo sub epidermide repente.
Hab. in caulibus Lupini in Germania.
58. **Coniothyrium conoideum** Sacc. Mich. I. pag. 203. — Peritheciis 1780
sparsis hemisphærico-conoideis, minutis, initio epidermide velatis, dein erumpenti-superficialibus, atris, nitidulis; sporulis ellipsoideo-globulosis, $3\frac{1}{2} \approx 2\frac{1}{2}$, 1-guttulatis, luteolis.
Hab. in caule putri Angelicæ silvestris, una cum *Leptosphaeria conoidea*, cujus est verisimiliter status spermogonicus, in silva Montello, nec non in caulibus Urticæ et Scrophulariæ in Gallia.
59. **Coniothyrium Saponariæ** Sacc. et Speg. Mich. I. p. 204. — Pe- 1781
ritheciis globuloso-lenticularibus, 200 μ . diam., contextu parenchymatico circa porum latiusculum densiore, fuligineo; sporulis brevissime cylindræis, utrinque obtusis, $4-4\frac{1}{2} \approx 2$, e hyalino pallide fuligineis.
Hab. in caulibus emortuis Saponariæ officinalis, Conegliano in Italia bor.
60. **Coniothyrium Scrophulariæ** (Fuck.) Sacc. *Phoma Scrophulariæ* 1782
Fuck. Symb. Myc. p. 112. — Peritheciis minutis, gregariis, depressis, atris; ostiolis minutissimis, erumpentibus; sporulis subglobosis, minutissimis, flavis.
Hab. in caulibus Scrophulariæ Ehrharti in Rhenogovia.
61. **Coniothyrium scapisedum** Sacc. et Speg. Mich. I. p. 204. — Pe- 1783
ritheciis globuloso-lenticularibus, initio epidermide velatis, 200-250 μ . d., anguste pertusis; contextu parenchymatico fuligineo; sporulis globoso-ovoideis, $2-3 \approx 1\frac{1}{2}-2$, pallide fuligineis.
Hab. in scapis emortuis Plantaginis lanceolatae, Conegliano Ital. bor. (SPEGAZZINI), et in scapis Armeriæ plantagineæ prope Rouen in Gallia (MALBRANCHE).
62. **Coniothyrium Halymi** (Cast.) Sacc. Mich. II. pag. 371, *Sphaeria* 1784
Halymi Cast. — Peritheciis dense gregariis, innato-erumpentibus, amphigenis globoso-lenticularibus, vix 100-110 μ . diam., poro pertusis; contextu distincte parenchymatico, fuligineo-olivaceo; sporulis globosis, 5-6 μ . d., dilute fuligineis, guttulâ subroseâ fœtis.
Hab. in foliis languidis Atriplicis Halymi, Angers in Gallia (GUEPIN).
63. **Coniothyrium silvaticum** Sacc. et Malbr. Mich. II. p. 624. — Pe- 1785

peritheciis sparsis, innatis, suberumpentibus, globulosis, $\frac{1}{5}$ mill. d., ostiolo brevi obtuso; sporulis globuloso-ellipsoideis, 3,6-4,5 μ . d., fuligineis, uniguttatis.

Hab. in caulibus Euphorbiæ silvaticæ, Elbeuf in Gallia (MALBRANCHE).

64. **Coniothyrium Parietariæ** Sacc. et Speg. Mich. I. p. 204. — Pe- 1786
ritheciis cortice secedente superficialibus, subhemisphæricis, 200-300 μ . diam., umbilicatis, carbonaceis; sporulis ovoideo-globulosis, 4-5 = 2-3 $\frac{1}{2}$, lutescenti-olivaceis.

Hab. in radicibus emortuis Parietariæ officinalis, Conegliano Italiæ bor. (SPEGAZZINI).

65. **Coniothyrium herbarum** Schulz. et Sacc. Micr. Slav. n. 26, Schulz. 1787
Ill. Fung. Slav. n. 271. — Peritheciis subgregariis, initio epidermide velatis, lenticularibus, $\frac{1}{10}$ - $\frac{1}{6}$ mill. diam., poro pertusis; sporulis oblongo-teretiusculis, utrinque rotundatis, 5 = 2, brunneolis.

Hab. in caulibus Asclepiadis Syriacæ prope Vinkovce in Slavonia. — Præcipue peritheciis lenticulari-applanatis dignoscenda species.

66. **Coniothyrium æquivocum** (Ces.) Sacc. *Phoma æquivocum* Ces. 1788
Myc. Born. p. 25. — Peritheciis subcutaneis, in caule exsiccato, sparsis, globoso-vel ellipsoideo-depressis, ostiolo papillari emergente; sporulis ovalibus obtusis, fuscis, 3 = 2.

Hab. in caulibus exsiccatis, Sarawak Bornei (BECCARI).

III. In Monocotyledoneis.

67. **Coniothyrium concentricum** (Desm.) Sacc. Mich. I. p. 204, *Phoma* 1789
concentrica Desm. Ann. Sc. Nat. 1840, XIII. p. 189. — Peritheciis lentiformibus, subastomis, contextu parenchymatico fuligineo; sporulis e globoso ovoideis, 4-5 = 3-4, initio hyalinis, dein flavidis, tandem fuligineis, plerumque 1-guttulatis.

Hab. in foliis Yuccæ gloriosæ, Yuc. filamentosæ, Yuc. aloifoliæ, Fourcroyæ excelsæ in Italia, Gallia, Belgio, Lusitania, Britannia et Amer. bor. — Perithecia non semper concentricè disposita, modo epidermide nigricante nunc immutatâ velata. — Var. **Agaves**: peritheciis sparse gregariis, erumpenti-superficialibus, globulosis. In foliis Agaves americanæ in Italia, Lusitania, Austria. — ***C. inops** Sacc. Mich. II. p. 142, *Phoma concentrica* Rav. et Cooke F. A. n. 243. In foliis Yuccæ filamentosæ. — A *C. concentrico* typico differt peritheciis minus evolutis, $\frac{1}{4}$ mill. diam., globoso-conicis, immersis et sporulis, 3-

$3\frac{1}{2}$ $\mu.$ d., globosis, minoribus, olivaceo-fuligineis, 1-guttulatis. Ob perithecia imperfecta forte huc pertinet *Papularia concentrica* Kickx Flandr. II. p. 90, nec *C. concentricum* Auct. — *C. herbarum* Cooke et Ellis Grevill. VI. p. 1 affine est, sed distingui potest.

68. **Coniothyrium Henriquesii** Thüm. Contr. Myc. Lus. n. 338. — 1790

Peritheciis amphigenis, magnis, hemisphærico-emersis vel vix conoideis, primo epidermide tectis, postremo cuticulâ dilaceratâ cinctis, atris, in disco orbiculato, magno, elevato, gregarie dispositis vel plerumque solitariis et sine ordine; sporulis bacillaribus vel longe ellipticis, rectis vel interdum subcurvulatis, utrinque subobtusatis, simplicibus, fuscis, 7-8 \approx 3.

Hab. in foliis emortuis *Fourcroyæ Sellowii* in horto botanico Coimbra in Lusitania (MOLLER).

69. **Coniothyrium biforme** Winter Contr. Myc. Lus. n. 790. — Peri- 1791

theciis nunc immersis, demum erumpentibus, usque 300 $\mu.$, nunc superficialibus, 130-140 $\mu.$, subglobosis, nitidis, atris, membranaceis, sub microscopio atro-violaceis; sporulis angulato-globosis, fuscis, 5-7 $\mu.$ diam.

Hab. ad folia emortua *Fourcroyæ* in horto botanico Coimbra in Lusitania.

70. **Coniothyrium Agaves** (Mont.) Sacc. *Phoma Agaves* Dur. et Mont. 1792

Fl. Alg. p. 605, Mont. Syll. n. 980. — Gregarium, erumpens, punctiforme, inquinans; peritheciis rotundatis, minutissimis, atris, opacis aut nitidis; sporophoris brevibus; sporulis ovato-globosis, continuis, obscure fuliginosis.

Hab. in foliis emarcidis *Agaves americanæ* Alger (DURIËU).

— An eadem ac var. *Agaves Coniothyrii concentrici*?

71. **Coniothyrium herbarum** Cooke et Ellis Grev. t. 96, f. 32. — Pe- 1793

ritheciis convexis, brunneis, primo tectis, membranaceis; sporulis subglobosis, brunneis, 4-5 $\mu.$ diam.

Hab. in pedunculis *Yuccæ filamentosæ*.

72. **Coniothyrium Palmarum** Corda Icon. Fung. IV. p. 38, t. 8, f. 106. 1794

— Gregarium; peritheciis oblongis, convexis, plicatulis, atris, nitentibus, maculâ fusca, margine sæpe rubescente insidentibus; sporulis ellipsoideis in sicco coffæformibus, semipellucidis, 8-10 \approx 4, crasse 2-nucleatis, dein obscure fuligineis.

Hab. in foliis languidis vel emortuis *Chamæropis humilis* in Italia australi, in Sicilia nec non in foliis Phœnicis dactyliferæ in horto botanico Coimbra in Lusitania.

73. **Coniothyrium borbonicum** Thüm. Contr. Myc. Lusit. n. 339. — 1795

Peritheciis epiphyllis, sparsis, minutis, subprominulis, nigris in macula valde irregulari, primo ferruginea, postremo arescendo-cinerecente, magna; sporulis numerosis, ellipsoideis, utrinque obtusorotundatis, continuis, enucleatis, e fumoso-fuscis, $6-8 \approx 4$.

Hab. ad folia languida subvivæ *Lataniæ borbonicæ* (*Livistonæ sinensis* Hort.) in horto botanico Coimbra in Lusitania (MOLLER).

74. **Coniothyrium socium** Pass. et Beltr. F. Sic. n. 26. — Peritheciis 1796
sparsis, minutis, subglobosis vel oblongis, primo epidermide immutata velatis, dein denudatis, atris; sporulis ellipticis, olivaceis, $8,5 \approx 3,5$.

Hab. ad folia arida *Chamæropis humilis* in consortio *Coniothyrii Palmarum*, Licata in Sicilia.

75. **Coniothyrium peradenycum** Sacc. *Phoma arundinaceum* Ces. 1797
Myc. Born. pag. 25, nec Sacc. — Superficiale; peritheciis sparsis, minutissimis, depresso-ellipticis, nigris; sporulis vix $2-4 \mu$. longis ovalibus, fuscillis, numerosissimis.

Hab. in culmo quodam lignatili decorticato, Peradenya Ceylon.

76. **Coniothyrium arundinaceum** Sacc. Mich. I. p. 203. — Peritheciis 1798
gregariis erumpentibus, globulosis, papillatis, atris; contextu parenchymatico fuligineo; sporulis ovoideo-oblongis, $4-4\frac{1}{2} \approx 2\frac{1}{2}-3$, $1-2$ -guttulatis, olivaceis, sterigmatibus filiformibus, brevibus, $10-15 \approx 2\frac{1}{2}$, suffultis.

Hab. in culmis putrescentibus *Arundinis Donacis*, Patavii in Italia bor. (BIZZOZERO). — Species bene distincta!

77. **Coniothyrium melasporum** (Berk.) Sacc. *Darlucella melaspora* Berk. 1799
in Cooke Præcursor Monogr. Henders. p. 26. — Pustulis prominulis, nigris; sporulis oblongis trinucleatis; cirris nigris, $12 \approx 5$.

Hab. in culmis *Sacchari officinarum* in Australia.

IV. In Acotyledoneis inque stercore.

78. **Coniothyrium epimyces** Sacc. et Speg. Mich. I. p. 206. — Peri- 1800
theciis sparsis gregariisque, globoso-lenticularibus, $150-200 \mu$. d., initio-erumpentibus, pertusis; sporulis oblongo-ovoideis obtuseque angulosis, $4-6 \approx 2\frac{1}{2}-3$, $1-2$ -guttulatis olivaceo-fuscidulis.

Hab. in cute *Polypori squamosi putris*, Conegliano in Italia boreali (SPEGAZZINI).

79. **Coniothyrium coprophilum** Speg. F. Arg. Pug. III. n. 115. — 1801
Peritheciis superficialibus, hinc inde glomerulatum gregariis, udis globosis, siccis, cupulato-collapsis, ostiolo impresso pertusis, mi-

nutis, 80-90 μ . d., membranaceis; contextu parenchymatico, atro-fuligineo; sporulis globosis vel ellipticis, quandoque basi angulato-acutatis, 6-7 \simeq 4-6, fuligineis.

Hab. in stercore canino putrescente in hortis á la Recoleta in Repub. Argentina. — A *Sporormia minima* obsoleta toto cælo diversa!

HARKNESSIA Cooke Grev. IX. p. 85, Wint. Hedw. 1883, p. 19. (Etym. a cl. doct. H. W. Harkness, botanico Californiae). — Perithecia globoso-conica, apice poroso-lacerata; contextu pseudo-parenchymatico. Sporulae ellipticae vel subglobosae, continuæ, opacæ, deorsum in pedicellum hyalinum articulatum productæ, demum in grumulos atros erumpentes. — Habitus *Melanconii*, sed, teste Winter, verum perithecium adest.

1. **Harknessia Eucalypti** Cooke Grev. 9, p. 81 (1881) Wint. Hedw. 1883, p. 21. — Peritheciis innatis v. superficialibus, globosis, flavo-brunneis, epiphyllis, vel caulinis; orificio orbiculari, margine elevato, hic illic dentato-lacerato; sporulis late ellipticis, atro-fuscis, 20-30 \simeq 11-14, deorsum pedicellatis; pedicellis æqualibus linearibus, hyalinis, dein fuscidulis, 40-45 μ . longis.

Hab. in foliis et ramulis Eucalypti Globuli in California Americae borealis.

2. **Harknessia uromycoides** Speg. Arg. IV. n. 309, *Melanconium uromycoides* Speg. F. Argent. Pug. I. n. 40 (1880) *Harknessia Molleriana* Wint. Hedw. 1883, p. 20, *Harknessia longipes* Harkn. F. Calif. p. 13 (1884). — Peritheciis gregariis erumpentibus, semi-membranaceis; orificio orbiculari, margine denticulato elevato; sporulis ellipsoideo-oblongis, sæpe curvis, apiculatis, 19-27 \simeq 10-12, atro-olivaceis, 2-nucleatis, apice hyalino nitido; basidiis persistentibus, flexuosis, hyalinis, angustis, sporula 4-6-plo longioribus, nempe usque 140 μ . longis.

Hab. in ramis emortuis foliisque Eucalypti odoratae, Piedmont Californiae et in Argentina. — Species basidiis prælongis mox distinguenda.

HYPOCENIA B. et C. North Am. Fungi n. 423^{bis} (Etym. *hypo* sub et *cenos* vacuus, ob cellulam basilarem in perithecio). — Perithecia crassa obtusissima, cellulam unicam semiorbicularem includentia. Sporulae fusoidæ continuæ endochromate utrinque retracto, pallide brunneæ. — *Hypocenia herbarum* C. et H. ad *Stagonosporam* spectare videtur.

1. **Hypocenia obtusa** B. et C. North Am. Fung. n. 423^{bis}. — Peri- 1804
theciis erumpentibus, singulis binisve sociatis, epidermide basi cinctis, obtusissimis; contextu celluloso, denso, intus pallido, semiorbiculari; loculo in basi perithecii conformi; sporulis breve fusoides, $20 \approx 4$, endochromate utrinque retracto, pallide rubido-brunneis.

Hab. in ramis arborum in Carolina inferiore et Pennsylvania Americæ borealis.

LEVIEUXIA Fr. Fungi Natal. p. 32 et Summa p. 415 (Etym. a cl. mycol. gall. *Lévieux*). — Perithecia liberata, verticalia, stipitato-clavata, carbonacea, rigida, astoma, superne demum rimose-diffracta, frustulatim decidua. Sporulæ sporophoris pedicellatæ, opacæ (ut nulla septa conspicua) in discum, demum pulverulentum, stipatæ.

1. **Levieuxia natalensis** Fr. Fungi Natal. p. 32. — Peritheciis oblongis basi in stipitem constrictis glabris, atris, catervatim nascentibus; disco plano convexo. 1805

Hab. in corticibus promont. Natal (WAHLENBERG).

CHÆTOMELLA Fuck. Symb. p. 402 (Etym. a *Chætomio*, quod habitu imitatur). — Perithecia superficialia v. brevissime pedicellata, astoma, ubique sparse setosa. Sporulæ basidiorum simplicium v. ramosorum apicibus, simplices, cylindrææ vel subfusiformes, subcurvatæ, typice coloratæ. — Plures species (*Melochæta*), hic enumeratæ mihi ignotæ, hyalosporæ sunt; hinc forte ad *Pyrenochætam* v. affine genus spectare possent.

I. *Eu-Chætomella*: sporulis olivaceis.

1. **Chætomella atra** Fuck. Symb. Myc. p. 402. — Peritheciis superficialibus, atro-olivaceis, globosis, dein umbilicatis v. subcupularibus, 1806
setosis, astomis, contextu distincte radiatim parenchymatico, virescente-olivaceo; setis paucis, strictis, parce septatis, $110 \approx 8$; sporulis copiosissimis, cylindræo-fusoideis, $12-15 \approx 2-3$, minute 2-guttulatis, olivaceis; basidiis filiformibus nonnumquam usque $60 \approx 1$ suffultis.

Hab. in culmis, foliis vaginisque Phragmitis, Caricis, Arundinis, Maydis in Germania, Gallia, Italia. — Var. **lignicola** Sacc. Mich. I. p. 97: peritheciis demum cupularibus, cæterum typo similibus; sporulis fusiformibus v. subclavulatis, $12-15 \approx 2\frac{1}{2}$,

sæpius 2-guttulatis, olivaceis, paraphysibus (sterigmatibus?) filiformibus, 60-70 \approx 1, intermixtis. In ramis decorticatis variis, Selva et Conegliano Ital. bor.

2. **Chætomella brachyspora** Sacc. et Speg. Sacc. Mich. I. p. 260. M. 1807
V. n. 1229. — Peritheciis sparsis, subsuperficialibus e globoso depressis, vix $\frac{1}{2}$ mill. diam., astomis, nigris, undique setulis rigidulis, parce septatis, 100-150 \approx 8-10, fuscis, sursum pallidioribus apiceque obtusiusculis, vestitis; contextu perithecii laxiuscule parenchymatico fusco; sporulis ovato-oblongis, utrinque rotundatis v. subtruncatis, 5-6 \approx 3, obsolete 2-guttulatis, olivaceis, e strato proligero celluloso, subhyalino immediate (?) oriundis.

Hab. in cortice duriore Catalpæ syringifoliæ, Conegliano Ital. bor. (SPEGAZZINI).

II. *Melochæta*: sporulis hyalinis.

3. **Chætomella oblonga** Fuck. Symb. Myc. p. 402, Tab. III. fig. 3. — 1808
Peritheciis sparsis, $\frac{1}{3}$ lineam longis, oblongis, basi excavatis (ut a latere visa reniformia appareant) brevissime nigro-pedicellatis, atro-fuscis, pilis paucis, simplicibus, septatis, subclavatis, strictis, concoloribus, perithecii diametrum transversalem subæquantibus obsitis; sporophoris iterate ramosis, totis 40 μ . alt.; sporulis cylindræis, perparum curvatis, 11 \approx 2, hyalinis.

Hab. in foliis putrescentibus Rosæ rubiginosæ, rarius in Rhenogovia. — V. **major**: peritheciis majoribus. In cortice interiore Quercus pr. Münster Germaniæ.

4. **Chætomella Artemisiæ** Cooke in Grevillea 1882, p. 123. — Epi- 1809
phylla; peritheciis sparsis, subglobosis, atro-brunneis, pilis tenuibus, fuscis, superne ornatis; sporulis ellipticis, hyalinis, 8-10 \approx 4.

Hab. in foliis vivis Artemisiæ afræ, Inanda, Natal (Wood).

5. **Chætomella Stevensoni** Ell. in Torr. Bot. Club. 1882, pag. 133. — 1810
Peritheciis ovato-globosis, 65-85 μ . diam., setosis setis rectis, rigidis, nigricantibus 120-190 \approx 7, sursum attenuatis, septatis, septis vero ob opacitatem parum conspicuis; sporulis fusiformibus, curvatis, nucleatis, subhyalinis, 19-26 \approx 2,5-3, basidiis ramulosis suffultis.

Hab. in foliis Dentariæ laciniatæ, Fairmount Park, Philadelphia Amer. bor. (STEVENSON).

6. **Chætomella raripila** (Mont.) Sacc. *Chætomium raripilum* Mont. 1811
Pl. Cell. Cent. VII. p. 339. — Erumpens, sparsa, libera; peritheciis hemisphærico-globosis, submembranaceis, fuscis, contextu qua-

drate celluloso-reticulato, apice collabenti-depresso, tandem rupto, pilis raris brevibus hispido; nucleo gelatinoso floccoso; sporulis oblongo-linearibus, 13-14 \approx 2, hyalinis, sporophoris suffultis.

Hab. in caulibus emortuis *Polygoni avicularis* in Gallia merid. (CASTAGNE).

7. **Chætomella Andropogonis** C. et E. Grevillea. — Sparsa; peritheciis brunneis, $\frac{1}{5}$ mill. diam., pilis rigidis erectis ornatis; sporulis ovatis, 6 \approx 5, hyalinis (semper?).

Hab. in foliis *Andropogonis*, New Jersey Amer. bor.

HAPLOSPORELLA Speg. F. Argent. III. p. 34. (Etym. *haplos* simplex, et *spora*), *Podosporium* Sacc. et Schulz. F. Slav. n. 29, non Bon. nec Schwein. — Perithecia in cæspites erumpentes stromateque suffultos aggregata, atra, subcarbonacea, papillata v. stromate verruciformi immersa. Sporulæ ovoideæ v. oblongæ, continuæ, fuliginæ, basidiis bacillaribus suffultæ. — Est quasi *Dothiorella* phæospora v. *Sphæroopsis* botryoso-congesta.

1. **Haplosporella hesperidica** Speg. Fungi Argent. IV. n. 299, Ann. 1813 de la Sociedad Científica Argent. XIII. 1, 1882. — Stromate tuberculiformi, hemisphærico-subconoideo, parvulo, olivaceo, squarruloso, primo tecto, dein epidermidem rumpente eaque fissa cincto; peritheciis monostichis, 3-7 aggregatis, globosis, atris, membranaceo-crassiusculis; contextu parenchymatico, indistincto, olivaceo; ostiolo minuto vix stromatis superficiem attingente; sporulis ellipticis, rectis vel inæquilateralibus, utrinque obtusissimis, 22-25 \approx 9-11, continuis, opace fuliginis.

Hab. in ramis foliisque dejectis *Citri Aurantii*, Parque de Palermo prope Buenos Ayres (C. SPEGAZZINI).

2. **Haplosporella chlorostroma** Speg. Fung. Arg. Pug. III. p. 34. — 1814 Peritheciis globosis, atris, carbonaceis, $\frac{1}{4}$ - $\frac{1}{5}$ mill. diam., stromate atro, extus sordide viridi, pulvinato, irregulari, $\frac{1}{2}$ -1 $\frac{1}{2}$ mill., erumpente immerso-stipatis; sporulis ellipticis v. elliptico-cylindraceis, utrinque obtusissime rotundatis, 18-22 \approx 10, vivide fuliginis, in sterigmatibus parvis, mammoso-conicis acrogenis, paraphysibus triplo longioribus obvallatis.

Hab. in ramulis emortuis *Robinia*, *Pseudacacia* prope la Recoleta Argentina.

3. **Haplosporella cæspitosa** (B. et Br.) Sacc. *Diplodia cæspitosa* B. 1815 et Br. Ann. N. H. n. 409. — Cæspitosa, nigra, erumpens; perithe-

ciis globosis; ostiolo papillato; sporulis oblongis, flavidis, mucro obvolutis, eguttulatis, continuis.

Hab. in ramis *Hederæ*, King's Cliffe in Britannia.

4. **Haplosporella Solani** (Pass.) Sacc. *Diplodia Solani* Pass. Funghi 1816
Abiss. n. 39. — Stromate carbonaceo-homogeneo, corticem sublevante et tandem stellatim v. lineatim rumpente, absque peritheciis distinctis; sporulis oblongo-ellipsoideis, continuis, castaneo-fuscis, 14-16 \approx 8, paraphysibus subclavatis plus minus longis immixtis.

Hab. in caule lignescente Solani cujusdam spinosi, Keren in Abyssinia (BECCARI).

5. **Haplosporella opaca** (C. et E.) Sacc. *Sphæropsis opaca* C. et Ell. 1817
in *Grevillea*. — Peritheciis congestis, in pustulas minimas confluentibus, epidermide cinctis, nec papillatis, dothideoideis; sporulis ellipticis, obtusis, brunneis, 25-30 \approx 12.

Hab. in caulibus *Artemisiæ*, New Jersey Amer. bor.

6. **Haplosporella Ribis** Sacc. *Podospora Ribis* Schulz. et Sacc. F. 1818
Slav. n. 29, nec Fuck. quod *Dothiorella*. — Stromate pulvinate, subcutaneo-erumpente, apice convexo colliculoso, atro, $\frac{1}{2}$ -1 mill. lat., intus perithecia sive loculos pallidos monostichos plures fovente; sporulis obovatis, utrinque obtusiusculis, 12-18 \approx 6,5-10 continuis fuligineis; basidiis sporula paulo brevioribus, bacillaribus, hyalinis.

Hab. in ramis corticatis *Ribis rubri* pr. Vinkovce. — Videretur fere *Fuckelia Ribis* sed fructificatio aliena.

7. **Haplosporella Nerii** Sacc. *Podospora Nerii* Schulz. et Sacc. F. 1819
Slav. n. 30. Schulz. Ill. Fung. Slav. n. 930. — Stromate verrucoso subcutaneo-erumpente, atro, $\frac{1}{2}$ -1 mill. diam., intus perithecia sive loculos plures, ovatos v. subglobosos, pallidos fovente; sporulis ovatis v. ellipsoideis continuis, 14-19 \approx 8, utrinque rotundatis ochraceo-fuligineis; basidiis sporula fere duplo longioribus, bacillaribus, hyalinis.

Hab. in ramis corticatis *Nerii Oleandri* pr. Vinkovce Slavoniæ.

8. **Haplosporella connata** (Ger.) Sacc. *Sphæropsis connata* Gerard 1820
in *Grevillea*. — Peritheciis 2-4 connatis, erumpentibus, obtusis apice perforatis; sporulis ellipticis, brunneis, 22 \approx 9.

Hab. in ramis arborum, New York Americæ borealis. — Habitus fere valsoideus.

9. **Haplosporella dothideoides** Sacc. *Sphæropsis? dothideoides* Sacc. 1821

et Roum. Mich. II. p. 348. — Stromatibus pulvinatis epidermide atro-nitida velatis, intus perithecigeris?; sporulis e globoso ellipsoideis, $20 \approx 17$, biguttatis, ochraceo-fulvis.

Hab. in costa foliorum *Chamæropis humilis*, socia *Leptosphaeria Debeauxii*, Alger. (O. DEBEAUX). — Fungus anceps in statu perfecto denuo explorandus. *Dothidea Chamæropis* Cooke (Cfr. Syll. II. p. 626) forte huc spectat.

10. **Haplosporella Cesatii** Sacc. *Sphaeropsis undulata* Ces. Myc. Born. 1822 p. 24, nec B. et C. — Peritheciis cæspitose aggregatis *Cucurbitariam* simulantibus, nigris, vertice depresso, humectatis, carnosus; sporulis ovalibus, exosporio crasso, fuscellis, simplicibus, guttula ampla centrali, raro binis, $7 \approx 4$.

Hab. ad cortices Borneo, Sarawak. — Alterum specimen habitu simile sporulas hyalinas, curvulas, cylindraceas, $3\frac{1}{2}$, gerit («ergo *Cytospora?*»).

WEINMANNODORA Fr. Summa p. 409 (Etym. a J. A. WEINMANN botanico et mycologo rossico). — Stroma hemisphaericum, liberum, carbonaceum, vertice ostiolo simplici pertusum; nucleo e columella centrali (alba) radiante ad medium in cellulas elongatas circumnantes dimidiatas diviso. Sporulae globosae, simplices, nigrae, majusculae fere *Melanconii*.

1. **Weinmannodora ruthenica** Fr. Summ. p. 409. — Fungus summo- 1823 pere insignis, lignatilis, capsulae Silenes ad instar ad medium 5-locularis.

Hab. in lignis in Rossia (WEINMANN). — Characteres generis.

CYTOPLEA Bizz. et Sacc. in Fl. critt. Ven. (Etym. *cytos* cellula [loculus] et *pleon* plus). — Stroma subsuperficiale pulvinatum, confluendo effuso-crustaceum, intus monostiche multi-locellatum; loculis cuboideis. Sporulae ovoideo-oblongae, continuae, olivaceo-fuligineae, initio catenulatae, stipitatae et filiformi-paraphysatae.

1. **Cytoplea arundinicola** Bizz. et Sacc. l. c. — Stromate ut supra 1824 descripto; loculis dense stipatis, atris, $250-260 \approx 190-200$, e pariete interiore ubique sporigeris; basidiis bacillaribus, simplicibus, hyalinis, $14-18 \mu$. longis; paraphysibus filiformibus, $40-60 \approx 1,2-2$; sporulis 2-nucleatis, simulateque 1-septatis, copiosissimis, $4-5 \approx 3$.

Hab. in culmo putri et terra obducto *Arundinis Donacis* in horto patavino Ital. bor.

REPERTORIUM
SPHÆRIOIDEARUM PILÆOSPORARUM
 SECUNDUM MATRICES

Obs. C. indicat *Coniothyrium*. — Ch. *Chaetomella*. — Cy. *Cytoplea*. — H. *Harknessia*. — Ha. *Haplosporella*. — Hy. *Hypocenia*. — L. *Levieuxia*. — S. *Sphaeropsis*. — W. *Weinmannodora*.

N. 1635 -- 1824 citantur 635 -- 824

- | | |
|--|--|
| <p>Abies — C. 770. 771. 772.
 Acacia — C. 737. 738.
 Acer — S. 651.
 Agave — C. 789. 792.
 Ailanthus — S. 652. — C. 723. 725.
 Albizzia — C. 725. 764.
 Alnus — S. 679. 686.
 Amorpha — C. 723.
 Ampelopsis — C. 724.
 Andropogon — Ch. 812.
 Angelica — C. 780.
 Araucaria — C. 777.
 Arauja — S. 694. — C. 723.
 Arbutus — S. 673.
 Arctostaphylos — S. 672.
 Aristolochia — S. 704.
 Armeria — C. 783.
 Artemisia — Ch. 809. — Ha. 817.
 Artocarpus — S. 693.
 Arundo — S. 713. — C. 798. — Ch.
 806. — Cy. 824.
 Asclepias — C. 787.</p> | <p>Atriplex — C. 784.

 Bambusa — S. 711. 712.
 Baptisia — S. 705.
 Bauhinia — C. 735.
 Berberis — C. 724. 725. 729.
 Betula — S. 683.
 Brassica — C. 777.
 Broussonetia — C. 762. 763. 764.
 Bupleurum — C. 743.

 Callicarpa — C. 748.
 Calycanthus — C. 723.
 Carex — Ch. 806.
 Carpinus — S. 687. — C. 723.
 Carya — S. 680. 681.
 Cassia — S. 636.
 Catalpa — C. 723. — Ch. 807.
 Celastrus — S. 653. 654.
 Celtis — S. 689. — C. 723.
 Chamærops — C. 794. 796. — Ha. 821.</p> |
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- Citrus — S. 661. 662. — C. 723. 724. —
 747. — Ha. 813.
 Clethra — S. 674.
 Cornus — S. 663. — C. 742.
 Cratægus — S. 642.
 Cycas — — C. 723.
 Cydonia — S. 650.
 Cytisus — C. 732. 734.

 Dentaria — Ch. 810.
 Diospyros — S. 675.
 Dracæna — S. 715.

 Elæagnus — C. 743.
 Eucalyptus — S. 655. — C. 723. —
 H. 802. 803.
 Euphorbia — C. 785.
 Evonymus — C. 723.
 Excæcaria — S. 695.

 Fagus — S. 688. — C. 759.
 Ficus — C. 756.
 Fourcroya — C. 789. 790. 791.
 Fraxinus — S. 677. 678. 679.

 Galega — C. 730.
 Gleditschia — S. 637. — C. 725.

 Hedera — S. 656. — C. 723. 728. —
 Ha. 815.
 Helianthemum — C. 724.
 Hymenæa — S. 635.
 Hypoxylon — S. 721.

 Iasminum — C. 740. 741.
 Ilex — S. 660.
 Isopyrum — S. 706.
 Juglans — S. 689. — C. 736. 764.

 Latania — C. 795.
 Laurus — S. 664. 665.
 Lonicera — S. 667. 668. — C. 723.
 Lupinus — C. 779.

 Maclura — S. 685.
- Magnolia — S. 640. — C. 723.
 Malva — S. 708.
 Menispermum — S. 707.
 Morus — S. 684. — C. 736.
 Musa — S. 718.

 Nerium — Ha. 819.
 Nyssa — S. 657.

 Oryza — S. 709. 710.

 Paliurus — C. 723. 751.
 Parietaria — C. 786.
 Parkinsonia — S. 639.
 Philadelphus — C. 723.
 Phœnix — C. 794.
 Phragmites — Ch. 806.
 Pinus — S. 691. 692. — C. 768. 769.
 Pirus — S. 646. 647.
 Pisum — C. 778.
 Plantago — C. 783.
 Platanus — S. 682. — C. 760. 761.
 Polygonum — Ch. 811.
 Polyporus — C. 800.
 Populus — C. 723. 755. 757.
 Prunus — S. 642. 643. 644. — C. 725.
 727.

 Quereus — S. 689. 690. — C. 736.
 752. 753. — Ch. 808.

 Robinia — C. 724. 736. 739. — Ha.
 814.
 Rosa — S. 649. — C. 724. 726. — Ch.
 808.
 Rhamnus — C. 725.
 Rhus — S. 657. 659. — C. 723. 764.
 Ribes — Ha. 818.
 Rubus — S. 648. — C. 724. 746. 758.
 Ruscus — S. 716.

 Saccharum — C. 799.
 Salix — C. 758.
 Sambucus — S. 669. 670. 671. — C.
 723. 730.

- Saponaria — C. 781.
Sarrothamnus — S. 638. — C. 723. 731.
Scrophularia — C. 782.
Solanum — Ha. 816.
Sophora — C. 723.
Syringa — S. 676. — C. 725.
- Tamarix — C. 749.
Thrinax — S. 719.
Thuja — C. 766.
Tilia — S. 641. — C. 750. 751.
Tricoryne — S. 720.
- Ulmus — S. 722. — C. 725. 765.
Vinca — S. 703.
Vitis — S. 666. — C. 745.
- Wistaria — C. 723.
- Yucca — S. 717. — C. 789. 793.
Zea — S. 714. — Ch. 806.
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Sect. 3. Phæodidymæ Sacc.

Sporulæ ellipsoideæ, ovoideæ vel oblongæ, 1-septatæ, fuscæ.

Clavis analytica generum.

§ Perithecia discreta.

† Perithecia tecta vel erumpentia.

Diplodia. Perithecia glabra; sporulæ strato mucoso carentes.*Macrodiplodia*. Perithecia glabra; sporulæ strato mucoso obvolutæ. — pag. 374*Chætodiplodia*. Perithecia pilosa; sporulæ strato mucoso carentes. — pag. 374

†† Perithecia lignicola, subsuperficialia.

Diplodiella. Perithecia subcarbonacea, papillata. — pag. 375

§§ Perithecia cæspitosa.

Botryodiplodia. Perithecia cæspitoso-erumpentia. — pag. 377

DIPLODIA Fr. Summa Veg. Scand. p. 416. (Etym. *diplos* duplex, ob sporulas didymas), *Sporocadus* Corda p. p. — Perithecia subcutaneo-erumpentia, subcarbonacea, atra, typice papillata, pertusa. Sporulæ ellipsoideæ, ovoideæ vel oblongæ, 1-septatæ, fuscæ. Basidia bacillaria, simplicia, hyalina. — E genere primario sepositæ sunt: species peritheciis superficialibus (*Diplodiella*); peritheciis hirsutis (*Chætodiplodia*); peritheciis acervatis (*Botryodiplodia*); sporulis mucosis (*Macrodiplodia*); sporulis hyalinis (*Diplodina*).

I. In ramis Dicotyledonearum lignosarum.

1. **Diplodia Anonæ** Sacc. Mich. II. p. 269. — Peritheciis tectis, dein 1825 peridermio fisso semi-erumpentibus, majusculis, in acervulos oblongos, aterrinos dense congregatis, globulosis, brevissime papillatis; sporulis oblongis, diu hyalinis, continuis, guttulatis, dein 1-septatis vix constrictis, $28 \approx 11-13$, olivaceo-fuscis.

Hab. in ramis crassioribus *Anonæ trilobæ* in horto patavino Ital. bor.

2. **Diplodia brachyspora** Sacc. Mich. II. p. 106. — Peritheciis spar- 1826 sis, corticulis, initio velatis, globoso-depressis, $\frac{1}{7}$ mill. diam.; contextu laxo parenchymatico fusco-melleo; sporulis breve obovatis, apice rotundatis, $9 \approx 7$, 1-septatis, vix constrictis, fusco-cinnamo-meis, sessilibus (idest stipite apiculiformi).

- Hab.* in ramis Berberidis vulgaris et B. buxifoliæ pr. Rouen in Gallia (LETENDRE).
3. **Diplodia syriaca** Sacc. M. V. n. 1202, Mich. I. p. 255. — Peri- 1827
theciis plerumque cæspituloso-aggregatis, tectis, dein, epidermide fissa, semierumpentibus, globoso-depressis, obtuse papillatis, nigerimis corticeque nigricante exceptis; contextu crassiusculo, sed laxo parenchymatico, fuligineo; sporulis oblongis, initio stipitellatis, continuis, 25 \approx 10-11 nubilose hyalinis, tandem constricto-1-septatis, 20-24 \approx 8-10, fuscis.
Hab. in ramis corticatis Hibisci syriaci, Padova in Italia boreali.
4. **Diplodia hibiscina** C. et Ell. in Grev. — Peritheciis atris, depres- 1828
sis, epidermide cinctis, sparsis vel congestis; sporulis ellipticis, vix constrictis, brunneis, inæqualibus, 25-30 \approx 12.
Hab. in ramis Hibisci, New Jersey in Amer. bor.
5. **Diplodia Tiliæ** Fuck. Symb. p. 394. — Peritheciis sparsis, tectis, 1829
media magnitudine, globosis, atris, ostioli papillæformibus, erumpentibus; sporulis in cirrum longissimum, atrum, gracile expulsis, oblongis, didymis, medio vix constrictis, atro-fuscis, 22 \approx 9.
Hab. in ramis siccis Tiliæ parvifoliæ, in Rhenogovia et in Vogesis.
6. **Diplodia Scheidweileri** (West.) Sacc. Mich. II. p. 349. *Sphæropsis* 1830
Scheidweileri West., Kickx Flandr. I. p. 401. — Peritheciis globuloso-depressis subcutaneis, erumpendo prominulis, papillatis, dein vertice circumscissis; sporulis diu continuis hyalinis, denique constricto-bilocularibus, 25 \approx 15, fuligineis, stipitellatis.
Hab. in cortice emortuo Tiliæ in Belgio et Gallia.
7. **Diplodia pustulosa** Lév. Ann. Sc. nat. 1846, p. 291. — Peritheciis 1831
sparsis vel confertis, globoso-papillatis, subcutaneo-erumpentibus; ostiolo conico, deciduo; sporulis oblongo-ellipsoideis, obtusis, 1-septatis, fuligineis, 2-guttatis; basidiis filiformibus, brevibus.
Hab. in cortice emortuo Tiliæ in Gallia et Belgio.
8. **Diplodia Aurantii** Catt. Micet. Agrum. p. 9, *Sporocadus Aurantii* 1832
Garov. Catt. 1875, *Diplodia Citri* Sacc. Fungi Ven. novi vel crit., Ser. V., 1876, n. 360. — Peritheciis sparsis vel laxe gregariis, primum epidermide tectis, demum erumpentibus, diu persistentibus, globoso-conicis, carbonaceis, aterrimis, majusculis, 180-200 μ . diam.; sporulis ellipticis, bilocularibus, ad septum paullum constrictis, utrinque rotundatis, brunneo-fuligineis, 18-21 \approx 8-10; basidiis hyalinis, crassiusculis, 12-14 \approx 4-5.

Hab. in foliis ramulisque corticatis Citrorum, sat frequens, Vittorio pr. Treviso (SACCARDO); Padova (PENZIG); in Italia merid. (CATTANEO).

9. **Diplodia hesperidica** Speg. in Fung. Arg., Pug. IV. n. 300. — Peritheciis parvulis, 120-150 μ . diam., sparsis, subglobosis, primo tectis, dein erumpentibus, atris, rugulosis, glabris, membranaceo-subcarbonaceis, ostiolo vix papillulato pertusis; sporulis ellipticis vel ovatis, 28-30 \approx 10-11, rectis vel inæquilateralibus, medio 1-septatis, non constrictis, opace fuligineis. 1833

Hab. in ramis et foliis dejectis Citri Aurantii L., Parque de Palermo, pr. Buenos-Ayres in Argentina (C. SPEGAZZINI).

10. **Diplodia subsecta** Fr. Summa Veg. Scand. p. 417. *D. Aceris* Fuck. Symb. Myc. p. 171. *D. acerina* Lév. in Ann. Sc. nat. 1846, p. 290. — Peritheciis globoso-papillulatis, subcutaneo-erumpentibus, in series lineares ordinatis, atris; sporulis ellipsoideo-oblongis, 1-septatis, 20 \approx 10, fuligineis. 1834

Hab. in ramulis corticatis Aceris campestris in Gallia, Germania, Italia, Suecia. — Pycnidium Cucurbitariæ protractæ.

11. **Diplodia atrata** (Desm.) Sacc. M. V. n. 1204, *Sphæria atrata* Desm. Not. IX. p. 15, 1842. *Diplodia Negundinis* Thüm. Exsicc., *D. Aceris* v. *Negundinis* Thüm. F. A. n. 1289. *Sphæria Negundinis* Opiz 1852 sec. Thüm. — Peritheciis minutis dense sparsis, tectis, globosis, subnitidis, ostiolo papillulato pertusis; nucleo albo, dein fuligineo; sporulis ovato-oblongis, constricto-1-septatis, opace fuligineis, 22-25 \approx 11-12, dein effuso-inquantibus. 1835

Hab. in ramis emortuis Aceris Negundinis in Gallia, Italia, Germania, Austria.

12. **Diplodia extensa** C. et Harkn. in Grev. 1881, p. 83. — Gregaria; peritheciis subglobosis, atris, sub cuticulâ nigrificata nidulantibus; sporulis ellipticis, uniseptatis, brunneis, medio constrictis, 28 \approx 13. 1836

Hab. in ramis Aceris macrophylli in California Americæ borealis.

13. **Diplodia Æsculi** Lév. Ann. Sc. nat. 1846, p. 290. — Peritheciis globulosis, innatis, nigris, epidermide fissa tectis, poro pertusis; sporulis ellipsoideo-oblongis, obtusiusculis, constricto-1-septatis, biguttatis, fuligineis, 22-24 \approx 8. 1837

Hab. in ramis Æsculi Hippocastani et Æ. Paviæ in Gallia, Italia, Belgio, Britannia, Germania.

14. **Diplodia Kœlreuteriæ** Sacc. Mich. II. p. 60. — Peritheciis globu- 1838

losis, papillatis, subtectis; sporulis oblongo-ellipsoideis, diu continuis, 25 = 14, stipitellatis.

Hab. in ramis corticatis *Kœlreuteriæ paniculatæ* in Gallia austr. (ROUMEGUÈRE).

15. **Diplodia Bacchi** Passer. et Thüm. Pilze des Weinstockes, Wien 1839 1878, p. 140. — Peritheciis magnis, gregariis, primo epidermide tectis, demum erumpentibus, liberis, solitariis vel confluentibus, globosis, asperis, opaco-atris; sporulis oblongis v. ellipsoideis, utrinque late rotundatis, medio septatis, non constrictis, enucleatis, 16-20 = 8-12, dilute fuscis, impellucidis.

Hab. in sarmentis aridis *Vitis viniferæ*, Parma Ital. bor. (PASSERINI).

16. **Diplodia interrogativa** Thüm. et Pass. Thüm. Pilze des Weinstockes, Wien 1878, p. 139. — Peritheciis minutis, solitariis, plerumque lineari-dispositis, prominentibus, globosis, atris; sporulis forma variis, ellipsoideis, utrinque rotundatis, raro ovatis vel globosis, plerumque integris, sed etiam septatis, ad septa non constrictis, fusco-griseis, 16-22 = 8-12.

Hab. in sarmentis aridis *Vitis viniferæ*, Parma Ital. bor. (PASSERINI).

17. **Diplodia viticola** Desm. Ann. Sc. nat. 1838, p. 311. — Peritheciis sparsis v. seriatim gregariis, globulosis, papillulatis, subastomis, nigris; sporulis ovoideo-ellipsoideis v. oblongis, 20-22 = 10-12, denique constricto-1-septatis, fuligineis, bi-nucleatis.

Hab. in ramis *Vitis viniferæ* in Gallia, Belgio, Germania, Italia, Britannia, America boreali.

18. **Diplodia vineæ** Pass. et Beltr. Fung. Sic. n. 27. — Peritheciis sparsis vel gregariis, sæpe seriatim dispositis, tectis, demum liberis, rugulosis, atris, nucleo albo e paraphysibus (vel sporophoris?) formato farctis; sporulis parvulis, illis *Diplodiæ viticolæ* Desm. dimidio minoribus, ellipticis, non vel plus minusve ad septum constrictis, castaneo-fuscis.

Hab. ad sarmenta arida *Vitis viniferæ*, Licata in Sicilia.

19. **Diplodia ampelina** Cooke Rav. Fung. Amer. n. 149, et in Grevillea. — Erumpens, subgregaria; peritheciis atris, primum tectis, demum liberis, hinc inde congestis, obturbinatis, leniter rugosis; sporulis ellipticis, nec constrictis, uniseptatis, brunneis, 25-28 = 12.

Hab. in cortice *Vitis*, Aiken in Carolina australi. — Diversa dicitur a *Dipl. Bacchi*.

20. **Diplodia ailanthina** Speg. Mich. I. p. 484. — Peritheciis subglo-

bosis, olivaceo-fuscis, papillatis, 200-250 μ . d., subepidermicis vel ligno decorticato parallele dispositis, ostiolo perforatis; sporulis fuligineis, 20 \approx 7, 1-septatis ad septum non vel vix constrictis.

Hab. in ramulis emortuis Ailanthi glandulosæ, Conegliano in Italia bor.

21. **Diplodia Staphyleæ** Sacc. et Penz. in Mich. II. pag. 632. — Pe- 1845
 ritheciis gregariis, globoso-depressis, obtusis, subcutaneis, ostiolo vix erumpente, $\frac{1}{5}$ mill. diam.; sporulis oblongis, uniseptatis, vix constrictis, 25-27 \approx 10-11, utrinque rotundatis, guttulatis, fuligineis.
Hab. in ramulis corticatis Staphyleæ pinnatæ, Saintes in Gallia (BRUNAUD).

22. **Diplodia ramulicola** Desm. Ann. Sc. nat. 1850, p. 113. *D. Evo-* 1846
nymi Fuck. nec West. — Peritheciis innatis, prominulis, numerosis, minutis, dense sparsis, globoso-depressis, nigris, $\frac{1}{4}$ - $\frac{1}{3}$ mill. diam., opacis, epidermide tectis; ostiolis papillatis; nucleo gelatinoso, initio albo; sporulis initio magnis, ellipsoideis, fere hyalinis, 30 \approx 10, denique subclavatis, constricto-1-septatis, 24 \approx 10, fuligineis.

Hab. in ramulis emortuis corticatis decorticatisque Evonymi europæi, nec non Ev. japonici in Italia, Gallia, Germania.

23. **Diplodia Cassinopsidis** Kalch. et Cooke in Grev. 1880, p. 19. — 1847
 Sparsa, epidermide nigrificata tecta, nitida, centro pertusa; peritheciis subconicis; sporulis ellipticis, uniseptatis, nec constrictis, fuscis, 22 \approx 10.

Hab. in ramis Cassinopsidis capensis in Africa australi. — Habitus *Pemphidi*.

24. **Diplodia illicicola** Desm. Ann. Sc. nat. 1838, p. 311, Oudem. Mat. 1848
 Myc. Néerl. II. p. 17, t. IV. f. 1. — Peritheciis subcutaneis translucentibus, gregariis, globosis, ostiolo papillato erumpente; sporulis cylindraceo-oblongis, apice rotundatis, 20-25 \approx 9-10, 1-septatis, leniter constrictis, fuligineis, initio hyalino-stipitatis.

Hab. in ramis Ilicis Aquifolii in Britannia, Hollandia, Gallia, Belgio, Italia, Amer. bor.

25. **Diplodia clandestina** Dur. et Mont. Fl. Alg. p. 575 et Syll. Crypt. 1849
 n. 953. — Peritheciis innatis globosis subocularibus, intus atris, epidermide (semper incolumi) tectis eidemque arcte adhærentibus; sporulis oblongis, magnis, fuscis, bilocularibus, subcirrose expulsis, 30 \approx 10.

Hab. in ramulis Rhamni Alaterni, La Calle (DURIET). — *Dipl. Rhamni Alaterni* Grogn. in F. Gall. n. 219, in ramis Ala-

- terni, Autun, vix recedit, sporulis paulo crassioribus, $30 \approx 15$. — β . **foliorum** Sacc. Mich. II. p. 537: peritheciis gregariis innato-erumpentibus, minoribus; sporulis oblongis, ad septum denique constrictis, $20-22 \approx 9-12$, initio stipitellatis, fuligineis. In foliis Rhamni Alaterni in Gallia et Italia.
26. **Diplodia Frangulæ** Fuck. Symb. myc. p. 174. — Peritheciis sparsis cæspitosisve, media magnitudine erumpentibus, atris, globosis, papillatis; sporulis oblongis, medio vix constrictis, fuscis, $24 \approx 10$. 1850
Hab. in ramis corticatis Rhamni Frangulæ in Germania, Italia. — Pycnidium *Cucurbitariæ Rhamni*. — β . **alpina** Sacc. Mich. II. p. 349. Peritheciis hinc inde aggregatis, erumpentibus; sporulis ovoideis, deorsum acutiusculis, $15-16 \approx 8$, uniseptatis, olivaceo-fuligineis, initio stipitellatis. — In ramis corticatis Rhamni alpini in Gallia meridionali.
27. **Diplodia albo-zonata** Dur. et Mont. Fl. Alg. p. 573 et Syll. n. 949. — Peritheciis globosis, sparsis, cortice fissis immersis latentibus, nucleo atro albo-zonato farctis poroque pertusis; sporophoris brevibus, sporulas primo continuas hyalinas, nucleolo granuloso incolori farctas, tandem oblongas fuscas septatas sustinentibus. 1851
Hab. in ramis Zizyphi Loti, Mascara in Algeria (DURIEU).
28. **Diplodia Paliuri** Becc. Erb. critt. ital. Ser. I. n. 1290. — Peritheciis sparsis in cortice nidulantibus, epidermide arcte tectis, vix vertice emergentibus; sporulis oblongis, ovoideis, ovoideo-subacutatis variis, dilute fuligineis, ad septum non constrictis, $25-35 \mu$ longis; nucleo, ut in plerisque *Diplodiis*, albo-zonato. 1852
Hab. in ramulis emortuis Paliuri aculeati, Vittorio, Cognigliano, Pola in Italia bor. nec non in Italia media.
29. **Diplodia subsolitaria** (Schw.) Curr. Comp. Sphær. p. 284, fig. 198. 1853
Sphæria subsolitaria Schw. in Fr. Elench. II. p. 86. — Peritheciis erumpentibus, subsolitariis, intus albis, ostiolo prominulo; sporulis stipitatis, ellipsoideis v. subpiriformibus, obsolete 1-septatis, dilute fuligineis, $24 \approx 10$.
Hab. in ramis Rhois in Carolina et Pennsylvania. — Forte *Physalospora subsolitaria* (Fr.) Syll. I. p. 443 eadem est, ascis a Friesio cum sporulis male commutatis.
30. **Diplodia Rhois** Sacc. M. V. n. 1021 et Mich. I. p. 254. — Peritheciis gregariis vel hinc inde aggregatis, epidermide pustulata tectis, tandem erumpentibus, globosis, papillatis, $20-22 \approx 8-10$, fuligineis. 1854
Hab. in ramis emortuis Rhois glabræ, jam cultæ, in silva

- Montello Ital. bor. socia *Botryosphaeria Berengeriana*. — A *Dipl. rhoïna* satis differre videtur.
31. **Diplodia resurgens** C. et Hark. in Grevillea n. 64. — Gregaria, 1855
erumpens, demum superficialis; peritheciis globosis, atris, parvulis,
nec papillatis, pertusis; sporulis anguste ellipticis, utrinque rotunda-
tis, uniseptatis, nec medio constrictis, læte brunneis, 12-14 \times 4.
Hab. in ramis *Rhois trilobatae* in California. — A *Dipl. microspora* distinguenda.
32. **Diplodia rhoïna** C. et Harkn. Grev. 1830, p. 6. — Sparsa, erum- 1856
pens; peritheciis subglobosis, atris; sporulis ellipticis, uniseptatis,
non constrictis, brunneis, 25-28 \times 10-12.
Hab. in ramulis *Rhois trilobae* in California.
33. **Diplodia Wistarïæ** Paul Brunaud in Roum. Revue Mycol. IV. p. 1857
226. — Peritheciis sparsis vel densis, globulosis vel globuloso-de-
pressis, tectis, dein leniter erumpentibus, nigris, lucidis, pertusis,
 $\frac{1}{4}$ mill. diam.; sporulis oblongis, utrinque rotundatis, 1-septatis,
sæpe 2-guttulatis, medio constrictis, fuligineis, 20-22 \times 8-9.
Hab. in ramulis emortuis *Wistarïæ sinensis*, Saintes
Galliæ.
34. **Diplodia Gleditschiæ** Pass. Cfr. Sacc. Syll. II. p. 310. — Perithe- 1858
ciis sæpe seriatim gregariis minutis e sphærico depressis, papilla-
tis, atris, subcutaneo-erumpentibus; sporulis didymis, leniter con-
strictis, 20-25 \times 8-10, fuligineis, demum opacis.
Hab. in ramulis corticatis emortuis *Gleditschiæ Triacanthi* in Italia boreali. — Pycnidium *Cucurbitariæ Gleditschiæ*.
— β . **leguminum**: peritheciis subsparsis; sporulis obtusis, pedicel-
latis, constricto-1-septatis, 20-22 \times 8, fuligineis. In legumine *Gle-*
ditschiæ in Germania et Gallia.
35. **Diplodia Sophoræ** Speg. et Sacc. Mich. I. p. 485 et II. p. 268. 1859
— Peritheciis subcutaneis, epidermide pustulata et infuscata vela-
tis, dein semierumpentibus, gregariis vel hinc inde paucis aggrega-
tis, globosis, mediocribus, atris, ostiolo minuto pertusis, rugulo-
sis, nucleo primitus albido; sporulis oblongis, diu hyalinis, 24 \times 10,
stipitellatis, tandem constricto-didymis, 20 \times 12, pallide fuligineis.
Hab. in ramis *Sophoræ japonicæ*, Conegliano, Susegana,
Padova in Italia boreali.
36. **Diplodia Pterocarpi** Cooke in Grev. 1882, pag. 76. — Sparsa, 1860
semiimmersa, punctiformis; peritheciis atris, opacis, subglobosis;
sporulis ovato-ellipticis, obtusis, uniseptatis, fuscis, vix constrictis,
10-12 \times 6-7.

Hab. in cortice *Pterocarpi* indici, Malacca (MAINGAY).

37. **Diplodia profusa** De Not. Micr. Ital. Dec. IV. n. 8. — Peritheciis 1861
depresse globosis, papillatis, subcutaneo-erumpentibus, gregariis vel hinc inde subcongestis; sporulis obovatis, fuscis, $22 \approx 12$, diu continuis, tandem 1-septatis, leniter constrictis, $20 \approx 9-10$, saturatoribus.

Hab. in ramis corticatis *Robinia*e *Pseudacacia*e in Italia, frequentissima. — Pycnidium *Cucurbitariae elongatae*.

38. **Diplodia lulibrissin** Speg. Mich. I. p. 484. — Peritheciis primo 1862
sub epidermide nidulantibus, dein erumpentibus, nigricantibus, subglobosis, papillatis; sporulis, $20-25 \approx 10-12$, dense fuligineis, medio 1-septato-constrictis.

Hab. in ramulis emortuis *Albizzia*e *Julibrissin*, Conegliano in Italia bor.

39. **Diplodia Farnesiana** Sacc. M. V. n. 350 et F. Ven. Ser. V. n. 367. 1863
— Peritheciis majusculis, globosis, papillatis, caespitulosis, erumpentibus; sporulis oblongis, $20-22 \approx 8$, medio constricto-1-septatis, fuligineis.

Hab. in ramulis corticatis emortuis *Acacia*e *Farnesiana*e, Padova in Ital. bor.

40. **Diplodia lata** C. et Harkn. in Grevillea. — Gregaria, tecta; pe- 1864
ritheciis globoso-depressis, atris, in cortice nidulantibus, vix elevatis; sporulis ellipticis, uniseptatis, utrinque rotundatis, medio constrictis, atro-fuscis, $25 \approx 16-18$.

Hab. in ramis *Acacia*e in California. — Sporulis latissimis distincta.

41. **Diplodia Acaciae** Penz. et Sacc. F. Mortol. n. 31, tav. V. fig. 16. 1865
— Peritheciis sparsis vel laxe gregariis, hypodermicis, dein ex epidermidis fissura longitudinali prorumpentibus, majusculis, hemisphaericis, vix papillatis, duris, carbonaceis; sporulis oblonge ellipticis, utrinque rotundatis, uniseptatis, medio vix restrictis, atro-fuscis, levibus, $23-26 \approx 10-12$; basidiis simplicibus, continuis, hyalinis, brevibus, $7-8 \approx 3-4$.

Hab. in ramulis emortuis *Acaciae* sp., Mortola Italiae borealis (O. PENZIG).

42. **Diplodia Siliquastris** West. Bull. Soc. Belg. II. p. 244 (1864). Pas- 1866
ser. F. Parm. in Comm. Critt. II. p. 438 (1867). — Peritheciis sparsis, nigris, epidermide dein laciniatim fissa tectis, prominulis, ostiolo poroso; sporulis ovoideis v. ellipsoideo-oblongis, 1-septatis, fuligineis, $20 \approx 10$, interdum constrictis.

- Hab.* in ramis dejectis v. emortuis *Cercidis Siliquastris* in Belgio et Italia boreali.
43. **Diplodia rudis** Desm. et Kickx in Rech. Cent. IV. p. 27 (1849). 1867
Diplodia heteromorpha West. 5 Not. p. 17. — Crusta stromatica nigra carbonacea, initio subcutanea, dein subsuperficiali tumida, epidermide tecta, dein cincta, subinde processibus inæqualibus, divergentibus peritheciophoris, conspersa; peritheciis sphæricis, membranaceis, nigris, papillatis, sæpe, cortice secedente, circumscissis; sporulis brunneis diu continuis ovoideis, dein 2-ocularibus, leniter constrictis, 20-25 = 9-10, brevi-stipitatis.
Hab. in ramis trunci emortui *Cytisi Laburni* in Gallia, Belgio, Suecia, Germania, Italia. — Contextus perithecii pallide fuscus; sporulæ immaturæ oblongæ, 30 = 12-14, granulosa, hyalinæ.
44. **Diplodia nigricans** Sacc. Mich. II. p. 269. — Peritheciis epidermide tumidula tandem fissa velatis, globosis, vix papillatis aterrimis; sporulis initio hyalinis, dein flavis, continuis, stipitellatis, dein 1-septatis, vix constrictis, 20 = 8, olivaceo-fuscis. 1868
Hab. in ramulis *Cytisi nigricantis* in silva Montello Italiae borealis.
45. **Diplodia Ulicis** Sacc. et Sp. Mich. I. p. 353. — Peritheciis gregariis subcutaneis, dein erumpentibus, globosis, $\frac{1}{5}$ mill. diam., brevissime papillatis; sporulis ovoideis vel ellipsoideis utrinque obtusiusculis, plerumque continuis, 20-25 = 10-11, olivaceo-fuligineis, sæpius 1-2-guttulatis, basidiis filiformibus, 5 = 1, hyalinis fultis. 1869
Hab. in ramulis putrescentibus *Ulicis europæi*, Susegana in Italia boreali.
46. **Diplodia Sarothamni** C. et Hark. in Grevillea n. 64. — Gregaria 1870 vel sparsa, tecta, subtiliter elevata, ostiolo atro pertusa; peritheciis depressis atris; sporulis elongato-ellipticis, obtusis, uniseptatis, vix constrictis, fuscis, 30 = 10.
Hab. in ramis *Sarothamni* in California.
47. **Diplodia Cathartocarpi** B. et Br. Fungi of Ceyl. n. 787. — Peritheciis congestis e macula pallida oriundis, minutissimis, epidermidem elevantibus, ostiolo latiusculo; sporulis oblongis utrinque subattenuatis, 13-25 = 5. 1871
Hab. in utraque pag. foliorum *Cassiæ Fistulæ*, Damboul Ceylon.
48. **Diplodia Amorphæ** (Wallr.) Sacc. *Sphæria Amorphæ* Wallr. Comp. 1872 n. 3770. Rabenh. Herb. myc. II. n. 732! — Peritheciis minutis sparsis v. aggregato-subseriatis nigris globosis, præter verticem

umbonatum summam epidermidis pelliculam subtiliter elevantem hypophlœodeis eamque dein scissam infarcentibus, nucleo gelatinoso atro; sporulis ellipsoideo-oblongis, stipitatis constricto-1-septatis, 22-24 \approx 10, fuligineis.

Hab. ad ramos novos *Amorphæ fruticosæ* frigore tactos in Germania.

49. **Diplodia Spegazziniana** Roum. et Sacc. Mich. II. p. 622. — Peritheciis gregariis v. hinc inde subaggregatis, subcutaneo-erumpentibus, $\frac{1}{2}$ mill. diam., globoso-depressis, vix papillatis, atris; sporulis ellipsoideis, utrinque rotundatis, 21-23 \approx 10-12, constricto-1-septatis, fuligineis; basidiis teretibus, 8-10 \approx 3-3,5, hyalinis. 1873

Hab. in ramis corticatis emortuis *Poincianæ pulcherrimæ* e Rio de la Plata in hortis Toulouse cultæ (ROUMEGUÈRE).

50. **Diplodia fissa** Dur. et Mont. Fl. Alg. et Syll. n. 950. — Peritheciis globosis innato-prominulis, sparsis aut glomeratis, extus intusque fuscis, vertice rimose dehiscentibus, epidermide longitrorsum rupta semitectis; sporulis primo subglobosis hyalinis, tandem oblongis fuscis. 1874

Hab. in ramis *Rosæ sempervirentis*, Alger (DURIEU). — An *Sphæria fissa* Pers.?

51. **Diplodia Rosæ** B. et C. North Am. Fungi n. 421, nec West: — Peritheciis epidermide tectis, sparsis vel congestis; sporulis oblongis, 12-13 \approx 6, utroque loculo 1-nucleato. 1875

Hab. in ramis *Rosarum*, New England in America boreali (RUSSELL).

52. **Diplodia spurca** (Wallr.) Sacc. *Sphæria spurca* Wallr. Fl. crypt. n. 3769. — Peritheciis parvis nigro-fuscis, tectis, sparsis tenacellis, e basi depressa in verticem hemisphæricum sordide fuscum incusum nigro-papillatum, dein ostiolo æquali pertusum abeuntibus summamque epidermidis pelliculam parcissime scissam elevantibus, nucleo atro-viridi; sporulis oblongis, obtusis, uniseptatis, fuligineis. 1876

Hab. sub epidermide ramulorum *Rosarum silvestrium* in Germania.

53. **Diplodia Rosarum** Fr. Summa Veg. p. 417. *D. Rosæ* West. Not. VI. p. 21, Kickx Fl. Crypt. Fl. I. p. 395. — Peritheciis minutis, sparsis, nigro-brunneolis, sphærico-papillatis, epidermide atratula tectis; sporulis ellipsoideo-oblongis, constricto-1-septatis, fuligineis, 25 \approx 9. 1877

Hab. in ramis *Rosæ centifoliæ*, *R. caninæ* etc. in Sue-

cia, Germania, Italia, Belgio. — Sec. Fuckel pycnidium *Othiæ Rosæ*.

54. **Diplodia Kerriæ** Berk. sec. Kickx Fl. cr. Fl. I. p. 399. *Diplodia* 1878
Corchori (Desm.) Kickx l. c. — Peritheciis sparsis, perexiguis, epidermide velatis, globulosis, subastomis, nigris; sporulis ellipsoideis oblongis, utrinque rotundatis, constricto-1-septatis, 20-22 \approx 7,7-8, fuligineis.

Hab. in ramulis *Kerriæ japonicæ* in Gallia, Belgio, Italia. — Nomen *D. Kerriæ* prætuli, nam *Kerria japonica* non nisi gravi errore ad *Corchorum* relata fuit.

55. **Diplodia Rubi** Fr. Summa Veg. Scand. p. 417. — Peritheciis spar- 1879
sis, epidermide velatis, prominentibus, subglobosis, nigris; sporulis ellipticis, atro-brunneis, uniseptatis, valde constrictis, 18-20 \approx 8-10.

Hab. in sarmentis emortuis *Rubi fruticosi* in Italia, Germania, Gallia, Suecia et America boreali. — Pycnidium *Didymosphæriæ diplosporæ*.

56. **Diplodia rubicola** Sacc. Mich. I. p. 256. — Peritheciis gregariis, 1880
globosis, exquisite papillatis, nigris, initio tectis, dein erumpentibus; sporulis obovatis, 25-28 \approx 12, diu continuis, olivaceo-fuligineis, basidiis filiformibus, 10-12 \approx 3, hyalinis suffultis.

Hab. in ramis putrescentibus *Rubi fruticosi*, Padova Ital. bor. — A *Dipl. Rubi* Fr. peritheciis majoribus, prominentibus; sporulis majoribus, diu (semper?) continuis etc. recedit.

57. **Diplodia seriata** De Not. Micr. Ital. Dec. IV. n. 6. — Peritheciis 1881
exiguis, sæpius seriatim gregariis, globoso-depressis, papillatis, pertusis, epidermide velatis, dein subliberis; sporulis stipitellatis, ellipsoideo-oblongis, utrinque rotundatis, hyalinis, dein badio-fuligineis, plasmate bipartito obsolete 1-septatis, 17-18 \approx 7-9.

Hab. ad sarmenta sicca *Rubi fruticosi*, Torino Ital. bor.

58. **Diplodia Preussii** Sacc. *Sporocadus Rubi* Preuss. Hoyersw. n. 1882
151. — Gregaria, cæspitosa vel solitaria erumpens; peritheciis nigris, oblongis vel mammillatis; ostiolis papillatis, prominulis; sporulis oblongis medio contractis didymis, atro-fuscis.

Hab. in ramulis dejectis *Rubi Idæi*, Hoyerswerda.

59. **Diplodia Pruni** Fuck. Symb. p. 169. — Peritheciis tectis, 5-8- 1883
aggregatis et epidermidem demum fissam pustulatim elevantibus, globosis, atris, papillatis; sporulis oblongis, fuscis, dein constricto-1-septatis, 18-22 \approx 8-10.

Hab. in ramulis corticatis *Pruni domesticæ*, spinosæ et

Armeniæ in Italia, Germania, Gallia. — Pycnidium *Othice Pruni*.

60. **Diplodia Roumegueri** Sacc. Mich. II. p. 106. *D. laurina* Roum. 1884
F. Gall. n. 217, nec Sacc. — Peritheciis subcutaneo-erumpentibus, globoso-papillatis, gregariis, atris; sporulis constricto-didymis, 25 \approx 13, fuligineis, stipite dimidio brevioribus.

Hab. in ramis emortuis Pruni lusitanicæ et P. Laurocerasi, Prades in Gallia merid. (ROUMEGUÈRE) et in Italia boreali (SACCARDO).

61. **Diplodia Padi** Brun. in Rev. Myc. IV. p. 226. — Peritheciis sparsis, minutis, nigris, innato-erumpentibus; sporulis oblongis, utrinque rotundatis, 1-septatis constrictisque, fuligineis, 22 \approx 8-10, loculo super. crassiore; basidiis hyalinis.

Hab. in ramis emortuis Pruni Padi, Saintes in Gallia et in Arduennis.

62. **Diplodia patellaris** (Wallr.) Mont. Cent. VIII. p. 82, *Sph. patellaris* Wallr. Fl. crypt. n. 3781. — Peritheciis sparsis, orbiculatis, atris, subcutaneis, senio patellaribus, basi convexuscula latiore epidermidi adnatis illamque dein vertice plano, primum membranula delicatissima concolore cum cubilibus confluenta, fidentibus; sporulis oblongis, 1-septatis, leniter constrictis, 25 \approx 10, atro-nitidis prorumpentibus et in massam palpabilem coactis.

Hab. ad ramulos languidos Pruni domesticæ in Thuringia.

63. **Diplodia Cratægi** West. in Kickx Fl. Fl. I. p. 393 (1867). Fuck. 1887
Symb. p. 393 (1869). — Peritheciis gregariis v. subseriatis, primo tectis, demum erumpentibus, minutis, globosis, atris; ostiis conicis; sporulis oblongis, 1-septatis, atro-fuscis, 24 \approx 8, loculis subinæqualibus.

Hab. in ramis siccis Cratægi Oxyacanthæ in Belgio, Italia, Germania. — Species Westendorpii non differt ab homonyma seriore Fuckelii.

64. **Diplodia Cydoniæ** Sacc. Mich. II. p. 269, Sacc. et Schulz. Micr. 1888
Slav. n. 32. — Peritheciis erumpentibus, gregariis, quandoque 3-4-aggregatis e globoso depressis, ostiolo papillulato brevissimo, atris; sporulis ovoideis, 20-24 \approx 11-12, 1-septatis, non vel vix constrictis, fuligineo-olivaceis.

Hab. in ramis corticatis Cydoniæ vulgaris in Italia bor., Gallia et Slavonia. — Var. β . **libera** Schulz et Sacc. l. c. peritheciis subsuperficialibus, globoso-conicis, magis discretis; sporulis 17-25

≈ 10, ceterum similibus. In ramis decorticatis Cydoniæ pr. Vinkovce in Slavonia.

65. **Diplodia Persicæ** Sacc. Mich. II. p. 267. — Peritheciis gregariis 1889
subcutaneo-erumpentibus, globulosis, papillatis, atris, contextu parenchymatico fuligineo; sporulis oblongis, 18-20 ≈ 8, didymis, leniter constrictis, denique fuligineis.

Hab. in ramis Persicæ vulgaris, Conegliano in Ital. bor.

66. **Diplodia Amygdali** Cooke et Hark. in Grevillea n. 64. — Gregaria, 1890
tectata, corticem vix elevans; peritheciis globoso-depressis, atris, papillatis; sporulis ellipticis, obtusis, uniseptatis, nec constrictis, fuscis, 20-22 ≈ 8.

Hab. in ramis Amygdali in California; an potius in Armeniaca, nam *Apricot* indicatur. — Distincta a *Diplodia Cerasorum* Fuck.

67. **Diplodia maura** C. et Ell. in Grevillea. — Gregaria; peritheciis 1891
globosis, atris, tectis, demum epidermide stellato-fissa; sporulis ellipticis, brunneis, uniseptatis, 25 ≈ 10.

Hab. in ramis Piri communis, New Jersey in Amer. bor.

68. **Diplodia radiciperda** Thüm. Symb. myc. Austr. I. p. 10. — Peritheciis aggregatis, elevatis, gregariis, liberis, subsphæricis, epidermidem perforantibus, oculo nudo *Cucurbitariam* imitantibus, atris, magnis; sporulis ellipsoideis vel ovatis, medio non constrictis, uniseptatis, apice interdum minime acutatis, episporio levi, spadiceis, 17 ≈ 10.

Hab. in radicibus Piri communis adhuc tenellis emortuis, Klosterneuburg in Austria.

69. **Diplodia piriformis** (Pr.) Sacc. *Sporocadus piriformis* Preuss F. 1893
Hoyersw. n. 52. — Cæspitosa, sublibera, epidermidem tollens; peritheciis sphæricis, ostioli papillatis atro-fuscis, corneis; basidiis filiformibus; sporulis piriformibus, magnis, uniseptatis, cum guttulis oleosis, magnis, repletis, cacao-fuscis.

Hab. ad ramos Mali, Hoyerswerda.

70. **Diplodia Pseudo-Diplodia** Fuck. Symb. myc. p. 393. — Peritheciis gregariis, tectis, globosis, atris, ostioli conicis, obtusis, per epidermidem demum erumpentibus et olivaceo-inquantibus; sporulis oblongo-ovatis, non septatis, fuscis (vel tandem 1-septatis 25 ≈ 12).

Hab. in ramulis siccis v. adhuc vivis Piri Mali et Piri communis in Rhenogovia, Italia et Gallia.

71. **Diplodia Cerasorum** Fuck. Symb. myc. p. 154 Mich. II. p. 270. — 1895

Peritheciis majusculis, sparsis v. subaggregatis, atris, intus cavis initioque albis, plerumque tectis, rarius erumpentibus; sporulis nunc continuis, $23 \approx 10$, nunc bilocularibus vix constrictis, $24-25 \approx 12$, fuligineis.

Hab. in ramis corticatis Cerasi in Germania et Italia bor.
— Pycnidium *Massariellæ vibratilis*.

72. **Diplodia spiræina** Sacc. Reliq. Libert. IV. n. 139. — Peritheciis 1896
subcutaneo erumpentibus, globulosis gregariis, vix papillatis, atris; sporulis ovato-oblongis, 1-septatis, vix constrictis, $20-22 \approx 10$, fuligineis; basidiis bacillaribus dimidio brevioribus, hyalinis.

Hab. in ramulis corticatis Spirææ salicifoliæ in Arduennis (LIBERT). — Pycnidium *Othicæ Spirææ* Fuck.

73. **Diplodia Spirææ** Thüm. Contr. F. Litor. n. 143, tab. I. fig. 9. — 1897
Peritheciis majusculis, sæpe confluentibus, erumpentibus, gregariis, subdisciformibus, applanatis, atris; sporulis ovoideo-clavatis, impellucidis, obscure castaneis, $14-20 \approx 8$.

Hab. ad ramulos aridos Spirææ salicifoliæ, hieme prope urbem Gorizia.

74. **Diplodia Sorbi** Sacc. Mich. I. p. 518. — Peritheciis globoso-de- 1898
pressis, subsparis, tectis, vix erumpentibus, $\frac{1}{2}$ mill. diam.; sporulis ovato-oblongis, $24 \approx 13$, diu continuis hyalinisque.

Hab. in ramis Sorbi domesticæ pr. Saintes in Gallia.

75. **Diplodia Amelanchieris** Sacc. Mich. I. p. 518. — Peritheciis sub- 1899
sparsis, globulosis, tectis, nigris, $\frac{1}{4}$ mill. diam.; sporulis oblongo-didymis, $25 \approx 9-10$, fuligineis.

Hab. in ramis Amelanchieris vulgaris pr. Saintes in Gallia (BRUNAUD).

76. **Diplodia Punicæ** Paul Brunaud in Roum. Revue Mycol. IV. p. 1900
226. — Peritheciis gregariis, globuloso-papillatis, atris; sporulis medio constrictis, brunneis, $18-22 \approx 8-9$.

Hab. in ramulis emortuis Punicæ Granati, Saintes in Gallia.

77. **Diplodia Chimonanthi** Sacc. Mich. II. p. 265. — Peritheciis gre- 1901
gariis, globulosis, papillatis, atris, subcutaneis, dein erumpentibus; contextu parenchymatico fuligineo; sporulis constricto-didymis, $18 \approx 8$, fuligineis breve stipitatis.

Hab. in ramis Chimonanthi præcocis, Selva in Italia boreali.

78. **Diplodia Calycanthi** (Schw.?) Speg. Mich. I. p. 485, *Sphæria Ca-* 1902
lycanthi Schw.? — Peritheciis subepidermicis, erumpentibus, atris, lenticularibus, rugulosis, $200-300 \mu$. diam.; sporulis primo luteolis,

dein olivaceo-fuscis, 1-septato-constrictis, ovoideis vel ellipticis, 19-22 \approx 9-10.

Hab. in ramulis emortuis Calycanthi floridi, Conegliano in Italia boreali.

79. **Diplodia Lagerstrœmiæ** Speg. Mich. I. p. 485. — Peritheciis atris, 1903 papillulatis, sublenticularibus, erumpentibus, 200-250 μ . d., ostiolo late hiante pertusis; sporulis opace olivaceo-fuligineis, 1-septatis ad septum non vel vix constrictis, utrinque obtusiusculis, 18-20 \approx 8-10.

Hab. in ramulis emortuis dejectis Lagerstrœmiæ indicæ, Conegliano in Ital. bor.

80. **Diplodia Tamaricis** Rabenh. Hedw. 1873, p. 141. — Peritheciis 1904; sporulis oblongis, utroque polo late rotundatis, fuscis, 1-septatis, 14-16 \approx 8-10.

Hab. in ramulis Tamaricis in Germania.

81. **Diplodia tamaricina** Sacc. Mich. I. p. 518 (sub nom. *D. Tamaricis*, 1905 sed non Rabenh.). — Peritheciis gregariis, subcutaneo-erumpentibus, globoso-papillatis $\frac{1}{3}$ mill. diam. nigris; sporulis ovato-oblongis, constricto-didymis, 20 \approx 12, stipitatis, fuligineis.

Hab. in ramis Tamaricis anglicæ pr. Saintes in Gallia (BRUNAUD).

82. **Diplodia Australiæ** Speg. F. Arg. Pug. I. p. 190. — Peritheciis 1905 densiuscule gregariis, lenticularibus, minutis, $\frac{1}{6}$ - $\frac{1}{5}$ mill. diam., cortici immersis, atris, ostiolo parvulo impresso donatis; contextu parenchymatico, membranaceo-subcarbonaceo; sporulis ellipticis, ex ostiolo protrudentibus atque areolam minutam punctiformem, atram efficientibus, medio 1-septatis, non vel vix constrictis, 20-22 \approx 10-12, amœne fuligineis.

Hab. in cortice secedente truncorum Eucalypti Globuli ubique vulgatissima in Argentina.

83. **Diplodia Eucalypti** Cooke et Harkn. in Grevillea 1881, p. 127. — 1907 Sparsa, tecta, demum erumpens; peritheciis carbonaceis, globosis, atris; sporulis ellipticis, brunneis, uniseptatis, medio leniter constrictis, 22-25 \approx 9-12, subinde 30 \approx 11.

Hab. in cortice Eucalypti in California. — Diversa satis a *Diplodia Molleriana* Thüm.

84. **Diplodia tenuis** Cooke et Harkn. in Grev. 1881, p. 127. — Pe- 1908 ritheciis sparsis, globosis, obtusis, membranaceis, atris, dein prominulis; sporulis ellipticis, uniseptatis, hyalinis, 12 \approx 4.

Hab. in corticibus emortuis Eucalypti in California.

85. **Diplodia Catappæ** Cooke in Grevillea. — Peritheciis globosis, pri- 1909

- mo tectis, dein erumpentibus; sporulis variabilibus, demum 1-septatis, atro-brunneis, utrinque subnucleatis.
Hab. in nucibus *Terminaliæ* Catappæ, Pondicherry, Bengala in Asia.
86. **Diplodia Opuntia** Sacc. Mich. II. p. 267. — Peritheciis sparsis, 1910
 epidermide tumida et nigricante velatis erumpentibusve, globulosis, obtuse papillatis; sporulis oblongis 20-22 \approx 10-11, leniter constrictis, atrofuligineis (initio hyalinis, guttulatis, stipitellatis).
Hab. in cladodiis *Opuntia* nanæ in collibus Euganeis, Montegrotto etc. in Ital. bor.
87. **Diplodia Ribis** Sacc. Mich. I. p. 518. — Peritheciis gregariis v. 1911
 subaggregatis, subcutaneis, globoso-papillatis, $\frac{1}{3}$ mill. diam. atris; sporulis stipitatis, oblongo-ovatis, diu continuis, dein constricto-1-septatis, fuligineis, 25 \approx 12.
Hab. in ramis *Ribis* rubri in Italia boreali et Gallia. — Forte status secund. *Cucurbitariæ* *Ribis* Niessl.
88. **Diplodia Grossulariæ** Sacc. et Schulz. Mier. Slav. n. 31. Schulz. 1912
 Ill. fung. Slav. n. 794. — Peritheciis gregariis, peridermio pustulato tectis, globulosis, 0,3 mill. diam., atris intus et extus, vertice obtusiusculis; sporulis ovato-oblongis, didymis, constrictis, 18-26 \approx 8-9, fuligineis.
Hab. in ramis *Ribis* *Grossulariæ* pr. Vinkovce in Slavonia. 1913
89. **Diplodia Hederæ** Fuck. Symb. myc. p. 394, t. II. f. 35. — Peritheciis gregariis, erumpentibus, media magnitudine, globosis, vertice conicis, perforatis, atris; sporulis ovato-oblongis, didymis, loculis uniguttulatis, atro-fuscis, 24 \approx 10.
Hab. in ramis foliisque *Hederæ* *Helicis* in Germania et Italia boreali.
90. **Diplodia mamillana** Fr. Summa Veg. p. 417. *Sphaeria mamillana* Fr. S. M. II. p. 487 p. p. *Diplodia Corni* West. — Sparsa; peritheciis hemisphærico-prominulis, epidermide nigrefacta adnata tectis; ostiolo papillæformi limbo cincto; sporulis ovoideis, constricto-1-septatis, fuligineis, 20-22 \approx 8.
Hab. in ramulis corticatis *Corni* sanguineæ in Suecia, Germania, Belgio, Gallia, Italia.
91. **Diplodia aucubicola** Sacc. *D. Aucubæ* Sacc. F. Ven. Ser. IV. sub 1915
 n. 8, nec West. — Peritheciis gregariis subcutaneis, globoso-depressis, papillatis; sporulis ovato-oblongis, 25-28 \approx 12-14, diu hyalinis, dein fuligineis.
Hab. in ramis ramulisque *Aucubæ* japonicæ, Padova Ital. bor.

92. **Diplodia paupercula** B. et Br. North Am. F. n. 419^{bis}. — Peri- 1916
theciis minutis punctiformibus; sporulis oblongis vel obovoideis,
10 \approx 5.

Hab. in ramis *Lonicerae* in Carolina inf. Amer. bor. — Var.
Platani Cfr. B. et Br. Ann. N. H. n. 406: peritheciis initio tectis,
dein liberis, globosis, ostiolo prominulo; sporulis minutis, 1-septa-
tis, obovatis hyalinis, dein oblongis, brunneis. In ramis emortuis
Platani, Batheaston in Britannia.

93. **Diplodia deflectens** Karst. Hedw. 1884, p. 18. — Peritheciis spar- 1917
sis vel laxe gregariis, peridermio tenuissimo, translucido, disco
tantum fisso, arcte adhærente tectis, sphæroideo-vel oblongato-ap-
planatis, demum poro sat lato apertis, basi filamentis paucis, bre-
vibus, radiantibus, fuscescentibus obsessis, nigris, 2 μ . lat.; sporu-
lis oblongatis vel subellipsoideis, utrinque vix vel leviter attenua-
tis, uniseptatis, ad septum vix vel leviter constrictis, dilutissime
fuligineis, eguttulatis, 16-21 \approx 7-8.

Hab. in ramulis emortuis *Lonicerae* in Fennia.

94. **Diplodia ascochyula** Sacc. Mich. II. p. 349. — Peritheciis gre- 1918
gariis et hinc inde in cæspitulos aggregatis, subsuperficialibus glo-
boso-lenticularibus, 80 μ . diam. pertusis; sporulis breve fusoides,
8-9 \approx 2 $\frac{1}{2}$ -3, utrinque obtusiusculis, olivaceis.

Hab. in sarmentis decorticatis et sæpius infuscatis *Lonicerae*
Periclymeni pr. Rouen in Gallia (MALBRANCHE). — Habitus *Di-*
plodice, sed characteres potius *Ascochytae*.

95. **Diplodia Lonicerae** Fuck. Symb. Myc. p. 141. — Peritheciis ma- 1919
jusculis in acervulos elongatos erumpentes dispositis, globoso-pa-
pillatis, atris subtilissime punctulatis; sporulis oblongo-didymis,
atro-fuscis, medio vix constrictis, 28 \approx 9.

Hab. in ramis putrescentibus *Lonicerae* *Xylostei* et *Ca-*
prifolii in Germania, Italia et America boreali.

96. **Diplodia Symphoricarpi** Sacc. M. V. n. 336. Fungi Ven. Ser. V. 1920
n. 362 (1876), Cooke et Harkn. in *Grevillea* (1881). — Peritheciis
nunc sparsis, nunc in acervulos parvos subaggregatis, epidermide
tumidula primitus velatis, dein lacerata cinctis, globulosis, facile
collabascantibus, papillulatis, atris; sporulis ovoideis, 20-24 \approx 11-
12, diu continuis, tandem didymis e lutescenti fuligineis, demum
valde constrictis.

Hab. in ramulis *Symphoricarpi racemosæ* in Italia bo-
reali et in California.

97. **Diplodia sambucina** Sacc. Mich. II. p. 268. — Peritheciis grega- 1921

riis subepidermicis, tandem erumpentibus et superficialibus, minutis, subglobosis, papillatis, aterrimis; sporulis ovato-oblongis, 18 \approx 11, leniter constrictis, fuligineis.

Hab. in ramulis hornotinis Sambuci nigræ, Selva Ital. bor. et in Gallia.

98. **Diplodia microspora** B. et C. North Am. Fungi n. 422^{bis}. — Pe- 1922
ritheciis sparsis; sporulis oblongis minimis, 6-7 \approx 3, pallide brunneis.

Hab. in ramis Viburni opulifolii in Pennsylvania Am. bor.

99. **Diplodia Lantanæ** Symb. Myc. 395. — Peritheciis majusculis, 8- 1923
12 in acervulos confluentibus, globosis irregularibusve, atris, supra levibus, infra subtiliter pilosis, papillatis, per corticis fissuras pustulatim erumpentibus; sporulis didymis, oblongis, fuscis 24 \approx 8.

Hab. in ramis siccis Viburni Lantanæ in Italia boreali et Rhenogovia.

100. **Diplodia Unedonis** Paul Brunaud. in Roum. Revue Mycol. IV. 1924
p. 226. — Peritheciis cortice immersis, tectis, dein suberumpentibus, sparsis vel aggregatis, minutis, nigris, poro pertusis; sporulis oblongis, 1-septatis, non vel leniter constrictis, 22-24 \approx 9-10, fuligineis.

Hab. in ramis emortuis Arbuti Unedonis, Saintes in Gallia.

101. **Diplodia inquinans** West. Not. II. p. 14. Kickx Fl. cr. Fl. I. p. 1925
398. — Peritheciis globulosis, perexiguis, disseminatis, tectis, dein semiimmersis, poro pertusis; sporulis ellipsoideo-oblongis, bilocularibus, constrictis, dein prorumpentibus et atro-fœdantibus, 25 \approx 12-14.

Hab. in trunco Fraxini Orni in Belgio, Italia, Germania, Gallia.

102. **Diplodia Jasmini** West. Not. V. p. 17. — Peritheciis (2-5) con- 1926
gregatis, globoso-papillatis, epidermide tectis, dein cinctis; sporulis oblongis, 30 \approx 15, diu hyalinis et continuis, tandem bilocularibus, leniter constrictis, fuligineis.

Hab. in ramulis Jasmini officinalis et fruticantis in Belgio, Italia et Gallia.

103. **Diplodia elæophila** Sacc. et Roum. in Revue Mycol. — Peri- 1927
theeciis subsparsis, initio tectis, globoso-conicis, $\frac{1}{4}$ mill. diam.; sporulis oblongo-ellipsoideis, stipitellatis, 30 \approx 14, diu continuis hyalinis.

Hab. in ramis Oleæ europææ in Algeria.

104. **Diplodia Licalis** West. in Bull. Ac. Brux. 1852, III. pag. 119. 1928
Diplodia Syringæ Auersw. in Fuck. Symb. p. 395 (1869). — Pe-

peritheciis sparsis v. gregariis, globuloso-papillatis, epidermide sæpe lineatim fissa tectis; sporulis ellipsoideis, dein 1-septatis leniterque constrictis, fuligineis, 22-28 \approx 8-10.

Hab. in ramis corticatis emortuis *Syringæ vulgaris* in Belgio, Gallia, Italia, Germania, Austria, Britannia.

105. **Diplodia Ligustri** West. Bull. Belg. II. p. 244. Mich. II. p. 266. 1929

— Peritheciis gregariis, minutis, globuloso-papillatis, subcutaneo-erumpentibus, initio albo-nucleatis; sporulis oblongo-ellipsoideis, 26-28 \approx 8-10, leniter constrictis, 1-septatis, fuligineis, stipitellatis.

Hab. in ramis emortuis *Ligustri vulgaris* in Belgio et Italia boreali. — An eadem ac *D. Mamma* Fuck.?

106. **Diplodia Mamma** Fuck. Symb. myc. p. 394. Oudem. Mat. Myc. 1930

II. p. 18. — Peritheciis subcutaneo-erumpentibus, nigris; sporulis ellipsoideis v. ovoideis, stipitellatis, 23-25 \approx 9-13, diu hyalinis, continuis, tandem.....

Hab. in ramis emortuis *Ligustri vulgaris* in Germania, Hollandia. *Sphæria Mamma* Wallr. Comp. n. 3786 *Melomastiam* spectare mihi videtur.

107. **Diplodia Chionanthi** C. et Ell. in Grevillea. — Gregaria; peri- 1931

theeciis tectis, papillatis, atris, ad basin mycelio profuso brunneo radiante cinctis; sporulis ellipticis, brunneis, uniseptatis, vix constrictis, 25 \approx 10.

Hab. in ramis *Chionanthi*, New Jersey in Amer. bor.

108. **Diplodia Nerii** Speg. Mich. I. p. 486. — Peritheciis lenticula- 1932

ribus, subepidermicis, dein erumpentibus, atris, 200-250 μ . diam; sporulis ovoideis vel ellipticis, 1-septato-constrictis, olivaceo-fuligineis, 18-22 \approx 8-10.

Hab. in ramulis et petiolis foliorum *Nerii Oleandri*, Conegliano in Italia boreali.

109. **Diplodia Catalpæ** Speg. Mich. I. p. 486. — Peritheciis subepi- 1933

dermicis, tectis, dein erumpentibus, globosis, atris papillulatis; sporulis oblongo-ellipsoideis, medio 1-septatis, non constrictis, fuligineo-olivaceis, 20-22 \approx 8-11.

Hab. in ramulis emortuis *Bignoniæ Catalpæ*, Conegliano in Italia boreali.

110. **Diplodia Tecomæ** Pass. Hedw. 1877, p. 119. — Peritheciis sub- 1934

globosis erumpentibus, atris, rugulosis, papillatis, solitariis v. cæspitosis; sporulis plus minus oblongis, non constrictis, bilocularibus, castaneo-fuscis.

Hab. in ramulis aridis *Tecomæ radicans* pr. Parma in Ita-

- lia boreali. — β . **affinis**: peritheciis globoso-papillatis, majusculis; sporulis constricto-didymis, 20-23 \approx 10, atro-fuligineis, stipitatis. In sarmentis Tecomæ, Toulouse in Gallia.
111. **Diplodia Incarvilleæ** Thüm. Contr. Myc. Lusit. n. 556. — Peri- 1935
theeciis aggregatis, globulosis, subrimosis, atris in cæspitibus gregariis, magnis, erumpentibus, liberis, ad basin epidermide cinctis, ostiolo obtuso-conico; sporulis oblongis, e cellulis duabus fere globosis compositis, utrinque rotundatis, medio valde constrictis, pulchre spadiceis, 20 \approx 12,5.
Hab. in ramulis emortuis Incarvilleæ sinensis in horto botanico Coimbra Lusitaniæ (MOLLER).
112. **Diplodia imperialis** Sacc. Mich. I. p. 96. F. it. fig. 98. — Peri- 1936
theeciis globulosis, subsuperficialibus, 100-110 μ . diam., breve papillatis, fuligineo-atris, membranaceis; sporulis oblongo-fusoideis, minutis, 8-10 \approx 3, 1-septatis, non v. vix constrictis pallide olivaceis.
Hab. in ramis decorticatis putrescentibus Paulowniæ imperialis, Conegliano in Ital. bor. (SPEGAZZINI).
113. **Diplodia laurina** Sacc. M. V. n. 508. F. Ven. Ser. V. n. 370 1937
Dipl. melæna var. *Lauri* Roum. F. Gall. n. 121. — Peritheciis sparsis, subcutaneis, atris, minutis; sporulis oblongis, 29 \approx 9, didymis, leviter constrictis, intense fuligineis.
Hab. in ramis putrescentibus Lauri nobilis, Selva, Colfosco (Treviso) in Ital. bor., et Perpignan in Gallia.
114. **Diplodia Edgworthiæ** Sacc. Myc. Ven. 1529, et Mich. II. 537. — 1938
Peritheciis gregariis, subcutaneo-erumpentibus; sporulis oblongis; ad septum vix constrictis, 30 \approx 15, fuligineis; initio stipitellatis.
Hab. in ramis putrescentibus Edgworthiæ chrysanthæ, Padova in Ital. bor. (BIZZOZERO).
115. **Diplodia Pittospori** Cooke et Hark. in Grevillea n. 64. — Spar- 1939
sa vel subgregaria, tecta; peritheciis subglobosis, atris, ostiolo punctiformi erumpente; sporulis ellipticis, diu hyalinis, continuis, demum uniseptatis, fuscis, nec constrictis, 20 \approx 12.
Hab. in ramis Pittospori in California.
116. **Diplodia cytosporoides** Roum. Fungi Gall. n. 23. — Peritheciis 1940
numerosis, nigris, subglobosis, innato-prominulis diuque epidermide tectis, poro pertusis; sporulis oblongis, obtusis, fuligineis, demum bilocularibus, 2-guttatis; basidiis..... non visis.
Hab. in ramis emortuis Garryæ ellipticæ, Toulouse in Gallia.
117. **Diplodia Elæagni** Pass. Micr. Ital. n. 15. — Peritheciis epiphyll- 1941

lis, sparsis, atris, subglobosis, scabris, epidermide rupta cinctis; sporulis oblongo-ellipticis initio crassiuscule stipitatis, integris, hyalinis vel violaceis, dein castaneis, medio septatis, non constrictis, $25 \approx 8-10$.

Hab. ad folia decidua Elæagni reflexi in horto botanico parmensi in Italia boreali.

118. **Diplodia buxella** Sacc. Mich. II. p. 266. — Peritheciis gregariis 1943
subcutaneis, sed tandem cortice delapso, superficialibus, minutis, globuloso-conoideis, atro-nitidulis (Melanommatis facie); sporulis oblongis, $18 \approx 7-8$, 1-septatis, lenissime constrictis, pallide fuligineis.

Hab. in ramis Buxi sempervirentis, Selva in Italia bor. — A *Dipl. Buxi* Fr. et *Dipl. buxicola* Sacc. peritheciis sporulisque minoribus etc. diversa.

119. **Diplodia buxicola** Sacc. Mich. I. p. 518. — Peritheciis gregariis 1943
aggregatisve, initio subcutaneis, dein, cortice secedente, subsuperficialibus, globulosis, papillatis, $\frac{1}{3}$ mill. diam., aterrimis; sporulis ovato-oblongis, constricto-1-septatis, $25 \approx 12$, atrofuligineis.

Hab. in ramis semidecorticatis Buxi sempervirentis, Saintes et Toulouse in Gallia.

120. **Diplodia Celtidis** Roum. in Fung. Gall. n. 19. Mich. II. p. 108. 1944
— Peritheciis gregariis subcutaneis, atris, globulosis; sporulis didymis, crassis, $22 \approx 12$, diu hyalinis, dein fuligineis, stipitellatis.

Hab. in ramis corticatis Celtidis australis, Bagnouls sur mer in Gallia merid.

121. **Diplodia argentina** Sp. F. Arg. Pug. II. n. 129. — Peritheciis 1945
hemisphæricis vel globoso-depressis, immersis vel in ramulis junioribus decorticatis superficialibus, atris, ostiolo papillato pertusis, $\frac{1}{2}-\frac{1}{3}$ mill. diam., carbonaceis; sporulis cylindræo-ellipticis, utrinque obtuse rotundatis, $20-25 \approx 10-12$, medio 1-septatis, non constrictis, fuligineis.

Hab. in cortice secedente vel ramulis Celtidis Talæ prope San José de Flores et Palermo in Argentina.

122. **Diplodia melæna** Lév. Ann. Sc. nat. 1846, p. 292. — Peritheciis 1946
innatis, epidermide tectis, gregariis, globosis, ostiolo obsoleto; sporulis oblongis, $20-22 \approx 8-10$, 1-septatis, fuligineis, mox effluentibus matricemque atro-fœdantibus.

Hab. in ramis corticatis Ulmi campestris in Gallia, Italia, Germania. — An exemplaria in Lauro et Ailantho indicata huc reapse spectent, non liquet. — Pycnidium *Cucurbitariæ nancosæ*, teste Fuck.

123. **Diplodia tephrostoma** Lév. Ann. Sc. nat. 1846, p. 291. — Pe- 1947
 ritheciis sparsis vel confertis, globosis, nigris, epidermide lacini-
 tim fissa cinctis, ostiolis pertusis discum cinereum perforantibus;
 sporulis 1-septatis, fuligineis.

Hab. in ramis corticatis Ulmi campestris in Italia boreali
 et Gallia.

124. **Diplodia sycina** Mont. in Castag. Supplem., p. 64 et in Syll. 1948
 Crypt. n. 947. — Peritheciis globosis subcompressis atris opacis,
 seriatim e rimis ligni decorticati erumpentibus; sporulis magnis
 oblongis fuscis, brevissime pedicellatis.

Hab. in ramulis decorticatis Fici Caricæ in Gallia, Italia,
 Germania. — Var. **syconophila** Sacc.: peritheciis dense gregariis,
 subcutaneis, globoso-papillatis atris; sporulis constricto-1-septa-
 tis, stipitatis, 20-25 = 8-11, fuligineis. In ramulis corticatis Fici,
 qui atro-fœdantur, in Italia et Gallia. — Var. **carpophila** Thüm.:
 peritheciis solitariis; sporulis castaneo-fuscis, brevissime deciduo-
 stipitatis. In Italia boreali pr. Plezzo in fructibus siccis adhuc
 pendulis Fici Caricæ.

125. **Diplodia macrostoma** Lév. Ann. Sc. nat. 1846, p. 291. — Pe- 1949
 ritheciis gregariis confertis, erumpentibus, nigris, ostiolis conicis
 demum deciduis et tunc peritheciis late hiantibus; sporulis generis.

Hab. in ramis corticatis Fici Caricæ et Gleditschiæ
 Triacanthi pr. Paris in Gallia et pr. Gorizia in Italia bor.

126. **Diplodia Macluræ** Speg. in Mich. I. p. 484. — Peritheciis nunc 1950
 sparsis, nunc in acervulos aggregatis, primo epidermide tectis, dein
 erumpentibus atque ab ea cinctis; sporulis ovoideis, 23-25 = 8-
 11, in sterigmatibus parvulis, 10 = 3, acrogenis, primo continuis,
 guttulatis, luteolis, dein medio 1-septatis non vel vix constrictis,
 obscure fuligineis.

Hab. in ramulis emortuis Macluræ aurantiacæ, Susega-
 na in Italia boreali.

127. **Diplodia radicina** C. et Ell. in Gravillea. — Erumpens, grega- 1951
 ria; peritheciis atris, elevatis, subglobosis; sporulis ellipticis, nec
 constrictis, brunneis, 30 = 10-12.

Hab. in radicibus Macluræ, New Jersey Amer. bor.

128. **Diplodia Papayæ** Thüm. in Rev. Myc. 1879, p. 9. — Perithe- 1952
 ciis numerosis, dense gregariis, hemisphæricis vel pulveri pyrro si-
 milibus, atris, nitidis; sporulis oblongo-ellipticis, utrinque angustatis
 et rotundato-acutatis, medio septatis, sed non constrictis, obscure
 fuscis, impellucidis, 25 = 10.

Hab. in ramis emortuis Caricæ Papayæ, Malabar (Doct. КЕЕК).

129. **Diplodia Molleriana** Thüm. Contr. Myc. Lus. n. 558. — Peritheciis sparsis aut solitariis aut longitudinaliter seriatim dispositis, prominulo-erumpentibus, primo sub epidermide nidulantibus, demum liberis, aterrimis, mediis; sporulis numerosis, ellipsoideis, utrinque angustato-rotundatis, medio non constrictis, obscure fuscis, impelucidis, enucleatis, $24 \approx 10$.

Hab. in ramulis aridis Ficus radicans in horto botanico Coimbra in Lusitania.

130. **Diplodia subtilis** Bon. Abhandl. II. p. 145. — Gregaria, punctiformis; peritheciis globosis seu ovoideis, basi applanatis, nigris, clivosis, astomis, primum cortice tectis, dein denudatis; sporulis ovoideis oblongisve, 1-septatis, læte brunneis; basidiis simplicibus, angustis.

Hab. in ramis Mori et Laburni in Guestphalia.

131. **Diplodia incrustans** Sacc. Fungi Ven. Ser. IV. n. 29, Myc. Ven. Spec. p. 119, t. XII. fig. 16. — Peritheciis conoideis, subcutaneo-erumpentibus, atris, basi hyphis ramulosis, parce septatis, obsitis; sporulis obovatis, constricto-1-septatis, $15 \approx 10$, articulo infero subacuminato, fuligineis.

Hab. in ramis corticatis Broussonetiæ, Rhois typhinæ, Padova, Treviso in Italia boreali. — Pycnidium *Thyridarice incrustans*.

132. **Diplodia Mori** West. Bull. Soc. bot. Belg. II. p. 244. *Sphaeria Mori* Chaill. in Fr. S. Myc. II. p. 494 (nomen). — Peritheciis gregariis, subcutaneo-prominulis, globoso-papillatis, nigris; sporulis ellipsoideo-oblongis, 1-septatis, leniter constrictis, $25 \approx 9-10$, fuligineis.

Hab. in ramis corticatis Mori albæ et nigræ in Italia, Gallia, Belgio, Austria, Germania, Algeria, Amer. bor. — Forma peritheciis subaggregatis; sporulis, $25 \approx 10-11$, similibus, occurrit in ramis crassioribus Mori in Gallia. — *Diplodia Mori* Berk. Dec. of fungi n. 137: sporulis semper pallidis simplicibus, obovato-oblongis; peritheciis globosis dispersis siccitate collapsis solitariis v. subaggregatis, in ramis Mori multicaulis Cincinnati, Ohio, videtur *Phomæ* v. *Dothiorellæ* species.

133. **Diplodia moricola** C. et Ell. in Grevillea. — Semiimmersa, peritheciis atris, globosis, papillatis; sporulis ellipticis, brunneis, endochromate bipartito, $18-22 \approx 10$.

Hab. in ramis decorticatis Mori, New Jersey Amer. bor.

134. **Diplodia atramentaria** C. et Ell. in Grevillea. — Peritheciis pau- 1958
cis, congestis, erumpentibus, atro-brunneis, obtusis, apice magno
perforatis; sporulis anguste ellipticis, brunneis, profusis, profluenti-
bus et inquinantibus, 15 = 6.

Hab. in ramis Mori, New Jersey in America boreali. — De
septo non loquitur, an ergo *Sphæropsidis* species?

135. **Diplodia fulvella** Cooke in Grevillea. — Sparsa; peritheciis im- 1959
mersis, tectis, ostioli abbreviatis, erumpentibus; sporulis ellipticis,
brunneis, uniseptatis, nec constrictis, 30 = 14.

Hab. in cortice Platani, Aiken in Carolina austr. Am. bor.

136. **Diplodia myxosporioides** Sacc. Mich. II. p. 349. — Peritheciis 1960
gregariis, diu peridermio velatis, denique suberumpentibus, glo-
bulosis depressis, $\frac{1}{2}$ mill. diam., vix papillatis; sporulis oblongis,
utrinque rotundatis, constricto-1-septatis, 22 = 15, granulosis, oli-
vaceo-fuligineis, initio basidiis crassiusculis subæquilongis, hyali-
nis suffultis.

Hab. in cortice Platani, Lyon in Gallia (THERRY). — Habitus
Myxosporii sed perithecium adest sporæque biloculares.

137. **Diplodia ditior** Sacc. et Roum. in Michelia II. p. 623. *Diplodia* 1961
Platani Sacc. F. Gall. n. 2254. — Peritheciis late gregariis, sub-
cutaneo-erumpentibus, globulosis, papillatis; sporulis oblongo-didy-
mis, 25-30 = 10-12, leniter constrictis, fuligineis, hyalino-stipitatis.

Hab. in ramis corticatis Platani orientalis in Arduennis
(LIBERT) Troyes in Gallia (BRIARD) et in Italia boreali. *D. pauper-
cula* B. et Br. sporulis minutis differt.

138. **Diplodia Juglandis** Fr. Summa Veg. Sc. p. 417, *Sphaeria Ju-* 1962
glandis Fr. S. M. II. pag. 493. — Gregaria; peritheciis globosis,
primo depressis immersis, dein erumpentibus levibus atris, ostiolo
simplici pertusis, intus griseis; sporulis ovoideo-oblongis, didymis,
medio constrictis, fuligineis, 24 = 10-12.

Hab. in ramis corticatis Juglandis regiæ in Suecia, Ger-
mania, Helvetia, Italia, Gallia. — Cortici interiori primo innata,
dein epidermide lacerata erumpens, opaca, parte superiore denuda-
ta prominula levi; intus primo farcta, dein evacuata, sed non col-
labens. — Ab hac forte non differt *Sph. eructans* Wallr. — Sec.
Fuck. pycnidium sistit *Cucurbitari Juglandis*. — Var. **veronensis**
(Mass.) Sacc. *Sph. veronensis* Mass. in Flora 1855, pag. 241, fig.
12: sporulis angustioribus, 18-24 = 6-6.3, sæpe 2-4-nucleatis. In
truncis juglandinis in agro veronensi.

139. **Diplodia eructans** (Wallr.) Sacc. *Sphæria eructans* Wallr. Fl. 1963
crypt. n. 3771. — Peritheciis minutis sparsis, subcutaneis nigris
globosis, nucleo atro-violaceo glutinoso faretis, vertice umbonato,
elevato-emerso; sporulis ovato-oblongis obtusis opacis uniseptatis,
profusis, inquinantibus.
Hab. ad ramos juglandinos gelu tactos passim in Germania.
140. **Diplodia populina** Fuck. Symb. myc. p. 170. — Peritheciis gre- 1964
gariis, tectis, demum per epidermidem fissam erumpentibus, majus-
culis, applanatis, papillatis; sporulis oblongis ovatisve, magnitu-
dine varia, 1-septatis, 23-25 = 12-13.
Hab. in ramis Populi nigræ, Tremulæ et italicæ in
Germania, Lusitania et Italia. — Sec. Thüm. Contr. Myc. Lus. n.
560 a *Diplodia mutila* differt sporulis non constrictis. Pycnidium
Othiacæ populinae.
141. **Diplodia mutila** Fr. et Mont. Ann. Sc. nat. I. p. 302. *Sphæria* 1965
mutila S. Myc. II. p. 424. — Atra; peritheciis sociatis v. con-
fluentibus globosis, superiore parte prominente inæquali rugosa,
ostiole simplici; sporulis stipitatis, ellipsoideo-didymis, utrinque
rotundatis, 20-24 = 7-9, fuliginis.
Hab. in ramis corticatis Populi in Suecia, Gallia, Germania,
Italia, Belgio. — Perithecia in series flexuosas erumpunt, confluunt,
intus albido-farcta, demum evacuata, atra: stroma vix genuinum,
sed cortex nigrescit.
142. **Diplodia Carpini** Sacc. Mich. II. p. 266. — Peritheciis dense gre- 1966
gariis epidermide velatis, vel hinc inde aggregatis erumpentibus-
que, globosis, atris, obtuse papillatis, (interdum, epidermide sece-
dente, dimidiatis); sporulis oblongo-ovoideis, leniter constrictis, 1-
septatis, 20 = 9-11, fuliginis.
Hab. in ramis Carpini Betuli, Padova, Selva Ital. bor., so-
ciâ *Cucurbitariâ Carpini* Sacc., cujus est pycnidium.
143. **Diplodia Coryli** Fuck. Symb. p. 393. — Peritheciis sparsis, ma- 1967
gnis, globosis, erumpentibus, atris, ostiolis globoso-papilliformi-
bus, minutissime perforatis; sporulis expulsis epidermidem atro-
inquinantibus, oblongis, inæqualibus.
Hab. in ramis emortuis Coryli Avellanæ in Germania,
Italia, Gallia. — Pycnidium *Othiacæ Coryli*.
144. **Diplodia Castaneæ** Sacc. Mich. I. p. 225. — Peritheciis gregariis, 1968
dein liberatis, lignicolis, superficialibus, globulosis, papillulatis,
atris; sporulis oblongis, constricto-1-septatis, 18-20 = 9-10, fuli-
gineis.

- Hab.* in ramis decorticatis *Castaneæ vescæ*, Padova Ital. bor. (BIZZOZERO). — Var. β . **corticola**: peritheciis subtectis, corticolis; ceterum non diversa. In ramis ejusdem corticatis Conegliano (SPEGAZZINI) et in Gallia (LIBERT). — Var. γ . **radicicola** Sacc. Mich. II. p. 537: peritheciis sparsis, cortice suberoso dein elabente tectis, contextu indistincte parenchymatico subcarbonaceo, globoso-depressis; sporulis ellipsoideo-oblongis, utrinque rotundatis, 19-21 \approx 9-10, initio granulosus, hyalinis, dein fuliginis, tandem sed rarius 1-septatis leviterque constrictis, basidiis cylindræis hyalinis sporulam æquantibus initio suffultis. In radicibus tenuioribus languentibus v. emortuis *Castaneæ vescæ* in Apennino super. et in præalpinis circa Bugellam (prof. GIBELLI). — Peritheciis depressioribus ostioloque obsoleto a typo nonnihil recedit.
145. **Diplodia faginea** Fr. Summa Veg. Scand. p. 417. — Peritheciis 1969 gregariis, globosis, nigris, subcutaneis, ostiolo papillato erumpente; sporulis ellipsoideis, 24 \approx 12, leniter constrictis, fuliginis.
- Hab.* in ramis corticatis *Fagi silvaticæ* in Italia, Gallia, Suecia, Germania. — Pycnidium videtur *Massariæ macrosporæ*.
146. **Diplodia suberina** Dur. et Mont. Fl. Alg. I. p. 572. Syll. Crypt. 1970 n. 948. — Erumpens, convexula, tuberculosa, atra; peritheciis ovoideis aut sphæricis prominulis papillulatis albo-farctis; sporulis oblongis, junioribus hyalinis continuis (maturis haud observatis), stipitatis, undique centrum versus vergentibus, 25 \approx 12-13.
- Hab.* ad ramulos *Quercus Suberis*, Algeria (DURIEU), Coimbra in Lusitania. (MESNIER).
147. **Diplodia Quercus** Fuck. Symb. myc. p. 170. — Peritheciis cæ- 1971 spitoso-confluentibus, primo tectis, dein liberis, maximis, hemisphæricis, punctulato-scabris, atris; ostiolis minutis papilliformibus; sporulis oblongis, guttulatis, 30 \approx 10.
- Hab.* in ramis siccis *Quercus* in Germania et Gallia. — Pycnidium *Othiæ Quercus*.
148. **Diplodia quercina** West. Bull. Ac. Belg. II. Ser. t. XII. n. 7. — 1972 Peritheciis sparsis, nigris, immersis, exiguis, epidermide atratula et varie fissa tectis; ostiolo papillato, erumpente; sporulis brunneis, ovoideis, bilocularibus.
- Hab.* in ramis *Quercus*, Gentinnes pr. Namur in Belgio (DE LIMMINGHE).
149. **Diplodia longispora** C. et Ell. in Grevillea F. New Jers. n. 2304, 1973 fig. 7. — Subgregaria, semiimmersa, atra; peritheciis minutis; sporulis elongatis, uniseptatis, brunneis, 30-35 \approx 7.

Hab. in ramis decorticatis *Quercus coccineæ*, New Jersey Americæ borealis.

150. **Diplodia cincta** Fuck. Symb. myc. p. 395. — Peritheciis sparsis, 1974
tectis, per epidermidem pustulato-inflatam fissamque demum erumpentibus, basi applanatis, annulo nigro hirsutoque cinctis, vertice hemisphæricis, papillatis, atris; sporulis oblongis, didymis, fuscis.

Hab. in ramulis siccis *Quercus* in Rhenogovia, rarius.

151. **Diplodia consimilis** Dur. et Mont. Fl. Alg. p. 574. Syll. Crypt. 1975
n. 951. — Innata; peritheciis globosis opacis sparsis confluentibusque, stromate atro-fusco junctis, epidermide stellatim rupta cinctis, ostiolo vix prominulo instructis; sporulis oblongis, pellucidis bilocularibus.

Hab. in cortice *Quercus cocciferæ* apud La Calle in Algeria (DURIEU).

152. **Diplodia Betulæ** West. in Kickx. Fl. crypt. Fl. I. p. 394. — Peritheciis 1976
nigris, solitariis v. aggregatis, initio immersis, denique fere liberis; sporulis ovoideis, bilocularibus, brunneis.

Hab. in trunco *Betulæ nigræ* in Belgio.

153. **Diplodia scabra** Fuck. Symb. myc. p. 395. — Peritheciis sparsis, 1977
tectis, media magnitudine, globosis, atris; ostiolis papillatis, perforatis, erumpentibus; sporulis oblongis, didymis, medio constrictis, atro-fuscis, 18 \approx 8.

Hab. in ramis siccis *Alni glutinosæ* in Rhenogovia. — In ramulis superioribus occurrunt spermogonia (*Phoma*): sporulis oblongis, hyalinis, 10 \approx 2.

154. **Diplodia Alni** Fuck. Symb. myc. p. 395. — Peritheciis tectis, 1978
sparsis confluentibusque, media magnitudine, globosis, atris; ostiolis papillatis, erumpentibus; sporulis oblongis, fuscis, didymis, 26 \approx 9.

Hab. in ramis et truncis siccis *Alni glutinosæ* in Germania et Italia.

155. **Diplodia Juniperi** West. Bull. Ac. Belg. II. Ser. t. 12, n. 7. — 1979
Peritheciis solitariis, perexiguis, immersis, sparsis, epidermide tectis, ostiolo papillato brunneo perforante; sporulis ovoideo-oblongis, 18-20 \approx 8-10, 1-septatis, non constrictis, fuscis.

Hab. in ramis *Juniperi communis* in Belgio, Gallia et Italia boreali. — β . **foliicola** Sacc. F. Gall. n. 2253: sporulis didymis fuscis, 24-26 \approx 10-11. In Gallia. — ***Dipl. Deodaræ** Thüm. F. Litor. n. 145: sporulis multo minoribus, 11 \approx 7, subovatis, loculo

inferiore latiore. In ramis tenuioribus Cedri Deodaræ, Gorizia.
«Si reapse sporulæ tam parvæ species distinguenda!»

156. **Diplodia thujana** Peck et C. Rep. on the St. Mus. N. Y. — 1930
Peritheciis subhemisphæricis v. ellipsoideis rugulosis v. substriatis, nigris; sporulis oblongo-ellipsoideis leniter constrictis, 18-23 μ . longis, fuligineis.

Hab. in cortice et ligno Thujæ occidentalis, Buffalo Amer. bor. (CLINTON). — Formæ corticolæ sunt perithecia erumpentia epidermideque arcte cincta; formæ lignicolæ perithecia sunt sublibera et sæpe ellipsoidea. An hæc postrema potius *Diplodiellæ* species? — β . **Thujæ orientalis** (*D. Thujæ* Sacc. in Mich. nec West.): peritheciis gregariis v. subaggregatis, subcutaneo-erumpentibus; sporulis ovato-oblongis 20-25 \approx 10, fuligineis. In Italia bor.

157. **Diplodia virginiana** Cooke et Rav. Fung. Amer. n. 151. — Spar- 1981
sa, tecta; peritheciis minimis, supra perforatis; sporulis ellipticis, uniseptatis, nec constrictis, brunneis, 20-25 \approx 10.

Hab. in ramis Juniperi virginianæ, Aiken in Carolina inferiore Americæ borealis.

158. **Diplodia thyoidea** C. et Ellis in Grev. V. p. 32. — Peritheciis 1982
erumpentibus, subgregariis, globosis, papillatis, atris, nitidis; sporulis medio constrictis, cellulis globosis, brunneis, 25-28 \approx 12-13.

Hab. in ramis Cupressi thyoidis, New Jersey in America boreali.

159. **Diplodia cyparissa** C. et Harkn. Grev. 1881, p. 83. — Sparsa, 1983
tecta, epidermide elevata; peritheciis subglobosis, demum depressis; sporulis ellipticis, hyalinis, continuis, demum uniseptatis, brunneis, medio vix constrictis, 20-22 \approx 9.

Hab. in ramis Cupressi macrocarpæ in California.

160. **Diplodia sapinea** (Fr.) Fuck. Symb. myc. p. 393. *Sphæria sa-* 1984
pineæ Fr. S. M. II. p. 491. — Gregaria, erumpens; peritheciis globosis, levibus, fusco-atris, ostiolo papillæformi prominulo; sporulis ellipsoideo-oblongis, subinde inæquilateralibus, fuligineis, 24-26 \approx 12.

Hab. in ramis corticatis Pini silvestris, Abietis, Araucariæ in Suecia, Germania, Gallia, Italia. — Perithecia ad dimidium denudata, globosa vel leviter depressa, majuscula, primo fusciscentia, dein opaca nigra intus primo albo-farcta, dein evacua-ta: papilla distincta, prominens, demum decidua. — Var. β . **ligni-**
cola. In ligno pineo aqua diu submerso in Gallia australi.

161. **Diplodia Phoradendri** Cooke Grev. XII. p. 23. — Sparsa, pro- 1985

nula; peritheciis globosis, atris, demum superne nudis; sporulis magnis, ellipticis, uniseptatis, fuscis, ad medium constrictis, $32 \approx 20$.

Hab. in Phoradendro, Seabord Sud Carolina in Amer. bor.

162. **Diplodia microsporella** Sacc. Mich. I. p. 96 et 517, F. it. n. 1986

99 (sub nom. *D. microsporæ*, sed non B. et C.). — Peritheciis laxè gregariis, epidermide tumidula velatis, dein semierumpentibus, globosis, depresso-papillatis; nucleo farcto atro; sporulis oblongis, $10-15 \approx 4-5$, rectis v. rarius inæquilateralibus, 1-septatis, vix constrictis, e strato prolifero cellulari hyalino orientibus, fuligineo-ochraceis.

Hab. in ramulis corticatis putrescentibus Coryli Avellanæ, Quercus, Cerasi, Carpini, Aceris campestris, Pruni domesticæ, Fraxini (sp. $8-10 \approx 4$, non constrictis), Acaciæ, Eucalypti, Myrtilli, Berberidis in Italia, Gallia, Algeria. — Var. β . **Araucariæ** Penz. et Sacc. F. Mort. t. V. f. 17. Peritheciis minutis, innatis, demum prorumpentibus, nigerrimis, carbonaceis, $80-100 \mu$. diam.; sporulis minutis, $9-10 \approx 4-5$ crassis, atro-brunneis, ad septum sæpius constrictis. In foliis delapsis Araucariæ Bidwillii, Mortola Ital. bor. — Var. γ . **Meliæ** Sacc. et Roum. Rel. Lib. IV. n. 140. Peritheciis subcutaneo-erumpentibus, gregariis, subinde aggregatis, globosis, vix papillatis, atris; sporulis oblongis, utrinque rotundatis, 1-septatis, vix constrictis, $10-12 \approx 5-6$, rufo-fuligineis; basidiis non visis. — In ramis corticatis Meliæ Azedarach in Arduennis.

163. **Diplodia consociata** B. et C. Cub. Fungi n. 556. — Peritheciis 1987
ovatis, collo brevi, basin versus floccis brevibus vestitis; sporulis
minutis, oblongis, $12-13 \mu$. longis.

Hab. in cortice ramorum in arvis insulæ Cuba.

164. **Diplodia subglobata** (Pr.) Sacc. *Sporocadus subglobata* Preuss 1988

F. Hoyerw. n. 337. — Peritheciis ovatis corneis, tum papillatis, cortici primo insertis (cujus epidermis tollitur); pulpa fusca; basidiis filiformibus; sporulis oblongis, inæqualibus, subbilocularibus, fuscis; episporio intense fusco; nucleo dilute-fusco cum guttulis oleosis.

Hab. in cortice arborum frondosarum, Hoyerswerda.

165. **Diplodia globulosa** Pass. Fungi Abiss. n. 38. — Peritheciis sub- 1989

globoso-depressis, atris, cavis, corticis, erumpentibus; sporulis oblongo-ellipsoideis vel varie irregularibus, intense fuscis, continuis v. obscure 1-septatis, medio non v. vix constrictis.

Hab. in cortice vetusto, Keren in Abyssinia (Beccari).

II. *In foliis et fructibus Dicotyledonearum lignosarum.*

(Cfr. n. 8. 9. 35. 86. 118. 125. 155. 162).

166. **Diplodia phyllodiorum** Penz. et Sacc. Fung. Mortol. n. 37, tav. 1990
V. fig. 20. — Peritheciis gregariis, minutis, hypodermicis, demum erumpentibus, 110–150 μ . diam., nigris, globosis, apice haud depressis, maculis albis phyllodiorum insidentibus; sporulis didymis, ellipticis v. ovalibus, subinæqualibus, medio paullum constrictis, atro-brunneis, 6–10 \approx 4–5; basidiis obsoletis.

Hab. in phyllodiis emortuis *Acaciæ* sp., Mortola in Ital. bor.

167. **Diplodia phyllodii** Cooke et Hark. in Grev. 1881. p. 83. — Spar- 1991
sa; peritheciis subglobosis, atris, prominulis, superne nudis; sporulis elongato-ellipticis, uniseptatis, brunneis, medio non constrictis, 22–25 \approx 9.

Hab. in phyllodiis *Acaciæ* in California.

168. **Diplodia Leguminis-Cytisi** Lév. Ann. Sc. nat. V. p. 293 (1846), 1992
Kickx Fl. I. p. 393. — Peritheciis globosis, depressis, nigricantibus, exiguis, tectis, dense sparsis; nucleo albido; ostiolo papillato, epidermidem perforante; sporulis obtusis, brevibus, 1-septatis, brunneis.

Hab. in leguminibus pedunculisque *Cytisi Laburni* in Gallia et Belgio.

169. **Diplodia acicola** Sacc. Mich. II. p. 268 (Mart. 1881), Cesati 1993
Hedw. 1881 Oct. p. 145. — Peritheciis gregariis, innato-erumpentibus, globosis, ostiolo-conoideo, aterrimis; sporulis stipitellatis, ellipsoideis, 22–30 \approx 10–12, diu continuis hyalinis denique fuligineis, 1-septatis.

Hab. in foliis *Pini silvestris* in horto patavino Ital. bor., et *Pinorum exoticarum* in horto neapolitano Ital. merid. — *Diplodia conigena* Desm. differt sporulis multo majoribus, nempe, 28–32 \approx 12–14; *Diplodia sapinea* Fr. peritheciis sæpius cæspitose-erumpentibus; sporulis 24–26 \approx 12, leniter constrictis; *Diplodia pinea* (Desm.) Kickx sporulis multo majoribus, nempe 37 \approx 17. — Var. β . ***Araucariæ*** Penz. F. Mort. n. 32: peritheciis gregariis, epidermide tectis, globosis; sporulis 24–25 \approx 13–14, diu continuis, demum uniseptatis, atro-fuscis; basidiis crassiusculis, hyalinis, 18–20 \approx 8–10, in foliis delapsis *Araucariæ Bidwillii*, Mortola in Ital. bor.

170. **Diplodia cupressina** Cooke in Grev. — Sparsa; peritheciis atris, 1994
globosis, subsuperficialibus, minute papillatis; sporulis ellipticis, brunneis, uniseptatis, constrictis, 10 \approx 5.

Hab. in foliis Juniperi, Darien, Georgia in Amer. bor.

171. **Diplodia pinea** (Desm.) Kickx Fl. cr. Flandr. I. p. 397. *Sphæ-* 1995
ria pinea Desm. Ann. Sc. nat. 1842, p. 14. — Peritheciis globo-
so-papillulatis, erumpentibus, in seriem sinuosam dispositis; ostiolo
demum deciduo; sporulis oblongis, 35-40 \approx 16-18, stipitellatis, ini-
tio continuis, luteolis, dein 1-septatis, vix constrictis, fuligineis.

Hab. in acubus emortuis Pini montanæ et Pini silve-
stris in Gallia, Belgio et Italia. — Sec. Desm. et Karst. exstat
quoque forma in cortice Pini silvestris et Abietis in Gallia
et Fennia.

172. **Diplodia Taxi** (Sow.) De Not. Micr. it. Dec. IV. fig. 9. *Sphæ-* 1996
ria Taxi Sow. fig. 394. Fr. S. M. II. p. 500. — Gregaria, epi-
dermide cinerescente tecta; peritheciis subimmersis convexis ni-
gricantibus, demum epidermidem poro perforantibus; sporulis el-
lipsoideo-oblongis, utrinque rotundatis, stipitatis, 1-septatis non
v. parum constrictis, 20-22 \approx 10, fuligineis.

Hab. in foliorum pagina inf. et sup. Taxi baccatæ in Suecia,
Britannia, Gallia, Belgio, Italia, Germania.

173. **Diplodia Thujæ** West. in Bull. Ac. Belg. II. Ser., t. XII. n. 7. 1997
— Peritheciis amphigenis, perexiguis, sparsis, epidermide atratula
tectis; sporulis.....

Hab. in foliis Thujæ orientalis, Namur in Belgio (BARBIER).

174. **Diplodia conigena** Desm. XIII. Not. p. 69. — Peritheciis im- 1998
mersis, dein erumpentibus, subrotundis, gregariis, confluentibus,
atris, subastomis; nucleo nigro; sporulis oblongis, utrinque obtu-
sis, fuligineis, denique 1-septatis, 26-30 \approx 12-15.

Hab. in squamis strobilorum Pini silvestris et Abietum
in Gallia, Belgio, Italia, Germania.

175. **Diplodia megalospora** B. et C. North Am. Fungi n. 420. — Pe- 1999
ritheciis sparsis, erumpentibus, obtusis; sporulis majoribus, oblon-
go-ellipticis, 37 \approx 12.

Hab. in conis Pini Tædæ in Carolina inf. Amer. bor.

176. **Diplodia petiolorum** Sacc. Mich. II. p. 267. — Peritheciis minu- 2000
tis globoso-lenticularibus, epidermide tectis v. erumpentibus, obtu-
se papillatis, atris; sporulis ovato-oblongis, 20-25 \approx 12-15, diu con-
tinuis, tandem 1-septatis, vix constrictis, fuligineis.

Hab. in petiolis foliorum Aceris Pseudoplatani, Selva
in Italia boreali.

177. **Diplodia Tini** Sacc. Mich. II. p. 269. — Peritheciis subepider- 2001
micis, tandem erumpentibus, globoso-conoideis, pusillis, aterrimis;

sporulis ovato-oblongis, 22-12, 1-septatis, non constrictis, fuliginosis.

Hab. in foliis Viburni Tini, Selva in Italia boreali rarius. — Var. β . **ramulicola** Sacc. In Arduennis in ramis Viburni Tini (LIBERT).

178. **Diplodia Ilicis** Fr. Summa Veg. Sc. p. 417. *Sphæria Ilicis* Fr. 2002
S. M. II. p. 501. *Diplodia aquifolia* West. — Gregaria, nigra; peritheciis globosis prominulis tectis, demum erumpentibus; sporulis elliptico-oblongis v. subturbinatis, stipitellatis, 20-24 \approx 12-14, 1-septatis, vix constrictis, fuliginosis.

Hab. in utraque pag. foliorum emortuorum Ilicis Aquifolii in Suecia, Gallia, Germania, Britannia, Italia, Belgio. — Perithecia epidermide, dein centro albido-pertusa velata, nitidula. — *Diplodia aquifolia* præbet sporulas simillimas sed continuas (ob immaturitatem?).

179. **Diplodia Evonymi** West. Exs. n. 930, Kickx Fl. cr. Fl. I. pag. 2003
395 (nec Fuck. quæ *D. ramulicola*). — Peritheciis sparsis, globoso-papillatis, minutis, epidermide tectis, dein prominulis erumpentibusque; nucleo diu albido; sporulis ovoideo-oblongis, obtusis, tandem 1-septatis, 30 \approx 10-12, fuliginosis.

Hab. in foliis putrescentibus Evonymi japonici in Belgio, Gallia, Italia boreali.

180. **Diplodia hedericola** Sacc. *Sphæria Hederæ* West. F. Belg. exs. 2004
n. 173, nec Fr. — Peritheciis dense gregariis, sæpius epiphyllis, globoso-depressis, vix papillatis, atris epidermide velatis; sporulis obovatis, apice rotundatis, 10-12 \approx 5-6, 1-septatis, non constrictis, fuliginosis, 2-guttatis, basidiis bacillaribus, hyalinis, 5-6 \approx 2.

Hab. in foliis emortuis Hederæ in Belgio.

181. **Diplodia Oleandri** Speg. Mich. I. p. 486. — Peritheciis laxè gregariis, circinatim dispositis (an semper?), globosis, tectis, prominulis, ostiolo papillato exserto donatis, 200-300 μ . diam.; sporulis ellipticis vel ovoideis, fuligineo-olivaceis, subopacis, 25-30 \approx 10-14, continuis (dein 1-septatis), basidiis hyalinis, 8-10 \approx 5-6, suffultis.

Hab. ad folia dejecta Nerii Oleandri, Conegliano in Italia boreali.

182. **Diplodia Buxi** Fr. Summa Veg. Sc. p. 417. — Peritheciis sæpius hypophyllis, dense gregariis, globoso-depressis, vix papillatis, per epidermidem centro dein laciniatim fissam translucentibus; sporulis oblongo-ellipsoideis, 1-septatis, non vel vix constrictis, 20-24 \approx 10-12, fuliginosis.

- Hab.* in foliis emortuis Buxi sempervirentis in Suecia, Gallia, Italia.
183. **Diplodia Aucubæ** West. Bull. Ac. Belg. II. Ser. t. XII. n. 7. — 2007
Peritheciis epiphyllis, sparsis, globuloso-papillatis, epidermide atrata tectis; sporulis ovoideis, brunneis, bilocularibus.
- Hab.* in foliis Aucubæ japonicæ pr. Mons in Belgio (P. DUMONT).
184. **Diplodia Mygindæ** Winter Contr. Myc. Lus. n. 815. — Peri- 2008
theeciis sparsis, epiphyllis, sine macula, immersis, globosis, ostiolo punctiformi epidermidem pustulatim elevatam perforantibus, atris, 240 μ . circa latis; sporulis elliptico-oblongis, initio hyalinis et continuis, demum uniseptatis, medio non vel vix constrictis, fuscis, 24-25 \approx 12-13.
- Hab.* ad folia arida Mygindæ pallentis in horto botanico Coimbra in Lusitania.
185. **Diplodia salicella** Sacc. Mich. II. p. 270. — Peritheciis sparsis, 2009
epidermide velatis, prominulis erumpentibusve, globosis, subpapillatis, aterrimis; sporulis oblongis, 22-25 \approx 12, quandoque curvulis, 1-septatis, non vel vix constrictis, aterrimis.
- Hab.* in foliis putrescentibus Salicis vitellinæ, Selva in Italia boreali. — A *Dipl. salicina* Lév. sporulis majoribus aterrimis præcipue differt.
186. **Diplodia glandicola** C. et Ell. in Grevillea. — Sparsa; perithe- 2010
ciis minimis, atris, vix prominulis; sporulis ellipticis, uniseptatis, brunneis, 25-28 \approx 12, non constrictis.
- Hab.* in fructibus Coryli Avellanæ, New Jersey in Am. bor.
187. **Diplodia dryadea** Sacc. Mich. II. p. 267. — Peritheciis minutis 2011
erumpenti-superficialibus e globoso conicis, acutiusculis, atris; sporulis oblongis, 22 \approx 12, diu continuis, fuliginis, basidiis duplo longioribus quandoque ramulosis suffultis.
- Hab.* in pagina inferiore foliorum putrescentium Quercus pedunculatæ in silva Montello Ital. bor.
188. **Diplodia Embryopteridis** Cooke in Grevillea. — Gregaria; pe- 2012
ritheciis atris, erumpentibus, poro pertusis; sporulis ellipticis, uniseptatis, brunneis (non constrictis) 25-28 \approx 11.
- Hab.* in fructibus Embryopteridis glutiniferæ, Midnapore.
189. **Diplodia Mahoniæ** Sacc. M. V. n. 1402 et Mich. I. p. 457. — Pe- 2013
ritheciis plerumque epiphyllis, globoso-depressis, $\frac{1}{4}$ mill. diam.; gregariis, innato-erumpentibus, nigris; sporulis, hyalino-stipitatis,

ellipsoideo-oblongis, $22 \approx 12-14$, diu continuis, dein 1-septatis vix constrictis, fuligineis.

Hab. in foliis languidis Mahoniæ Aquifolii in horto patavino Ital. borealis.

190. **Diplodia heteroclita** Dur. et Mont. Fl. Alg. p. 576 et Syll. n. 2014 955. — Hypophylla; peritheciis innato-prominulis, globosis, tectis, apice rimose dehiscentibus, tandem elabentibus, maculis cinereo-rufescentibus insidentibus, $100-150 \mu$. d; sporulis oblongis initio continuis tandem bilocularibus fuscis.

Hab. in foliis Citri Aurantii in monte Bouzaréah in Algeria (DURIEU).

191. **Diplodia Photiniæ** Speg. Mich. I. p. 485 et II. p. 269. — Peritheciis hemisphæricis, subepidermicis, carbonaceis, minutis, 130μ . diam., papillatis; sporulis ochraceo-fuligineis diu continuis, dein 1-septatis, crassiuscule et obscurius tunicatis, quandoque 1-2-guttulatis, $22 \approx 12-14$, ad septum sæpius non constrictis.

Hab. in foliis dejectis, putrescentibus Photiniæ serrulatæ, Conegliano, Selva in Italia boreali.

192. **Diplodia rhodocarpa** Cooke Grev. XII. p. 23 (*D. rosæcarpa*). 2016 Sparsa; peritheciis demum erumpentibus, subglobosis, atris, obtusis; sporulis ellipticis, uniseptatis, fuscis, ad medium constrictis, $20 \approx 10$.

Hab. in fructibus Rosæ in Carolina infer. Americæ borealis.

193. **Diplodia Eriobotryæ** Sacc. Mich. II. p. 267. — Peritheciis erumpentibus, globosis, majusculis, conico-papillatis, aterrimis; sporulis oblongis, $20 \approx 8$, constricto-1-septatis, fuligineis.

Hab. in nervis foliorum Eriobotryæ japonicæ, Conegliano in Italia boreali.

194. **Diplodia Lauro-Cerasi** West. Bull. Ac. Belg. t. XII. n. 7. — 2018 Peritheciis epiphyllis, exiguis, sparsis, nigris, innatis demum subliberis, ostiolo papillato; sporulis ovoideis, bilocularibus.

Hab. in foliis Pruni Lauro-Cerasi, Mons in Belgio (P. DUMONT). — «An eadem ac *D. tecta*?».

195. **Diplodia consors** B. et Br. Ann. N. H, n. 412. — Peritheciis 2019 gregariis, tectis, epidermide nitida, dein nigrescente et ad ostiolum perforans dealbata; sporulis minutis, ellipsoideo-oblongis, 1-septatis, fuligineis.

Hab. in foliis Pruni Lauro-Cerasi in Britannia. — A *Diplodia tecta* sporulis tertia parte brevioribus, nempe $12-15 \mu$. tantum longis differt.

196. **Diplodia tecta** B. et Br. Ann. N. H. n. 411. — Peritheciis tectis, 2020
gregariis, epidermidem bullatim inflantibus et leniter nigrificantibus; sporulis oblongis, diu continuis, majusculis, 20-22 \approx 12-14, dein 1-septatis leniterque constrictis.
- Hab.* in foliis emortuis Pruni Lauro-Cerasi et Pr. lusitanicæ in Britannia, Gallia et Italia.
197. **Diplodia Malorum** Fuck. Symb. myc. p. 395. — Peritheciis gre- 2021
gariis, sæpe confluentibus tectis, demum liberis, majusculis, globosis, atris, papillatis; sporulis dein ellipsoideis 1-septatis vix constrictis, 22-25 \approx 12.
- Hab.* in fructibus putrescentibus Piri et Mali in Germania, Italia.
198. **Diplodia Ravenelii** Cooke in Grevillea. — Hypophylla, gregaria 2022
vel sparsa; peritheciis atris, convexis, semiimmersis; sporulis elongato-ellipticis, brunneis 20 \approx 8.
- Hab.* in foliis Magnoliæ, Aiken in Carolina austr.
199. **Diplodia punctipetiola** Cooke in Grevillea. — Tecta; peritheciis 2023
globosis, prominulis, atris, sparsis; ostioli papillatis; sporulis ellipticis, nec constrictis, brunneis, 30 \approx 10.
- Hab.* in petiolis Magnoliæ grandifloræ, Aiken in Carolina superiore.
200. **Diplodia Magnoliæ** West. Bull. Ac. Belg. II. Ser. t. XII. n. 7. 2024
— Peritheciis epiphyllis, exiguis, immersis, nigris, nitidis; ostiolo papillato epidermidem perforante; sporulis ovoideis, bilocularibus, brunneis, leniter constrictis, 24-26 \approx 10-11.
- Hab.* in foliis ramulisque Magnoliæ grandifloræ in hortis Italiæ et Belgii.
201. **Diplodia maculata** C. et Harkn. in Grev. 1881 p. 83. — Epi- 2025
phylla; maculis irregularibus, fuliginosis, fusco-marginatis; peritheciis applanatis, membranaceis, brunneis; sporulis ellipticis, pallide fuscis, uniseptatis 20 \approx 5.
- Hab.* in foliis vivis Arbuti Menziesii (*Madrono*) in California.
202. **Diplodia Harknessi** Sacc. *Diplodia laurina* Cooke et Harkn. 2026
Grev. 1881, p. 83. — Epiphylla, sparsa, punctiformis; peritheciis convexis, atro-brunneis; sporulis ellipticis, uniseptatis, fuscis, 10-12 \approx 4.
- Hab.* in foliis Lauri in California.
203. **Diplodia Rhododendri** Bell. in West. Bull. Ac. Belg. t. 19, n. 9. 2027
— Peritheciis hypophyllis, minutis, punctiformibus, sparsis, nigri-

cantibus, tectis, dein semiimmersis, hemisphæricis, ostiolo papillato; sporulis brunneis, ovoideis v. ovato-oblongis, 20 \approx 10-11, constricto-1-septatis, atro-fuligineis.

Hab. in foliis Rhododendri arborei in hortis Namur in Belgio, et in ramulis Rhododendri pontici, Tarbes in Gallia.

204. **Diplodia arbuticola** (Fr.) Berk Outl. p. 317 *Sphæria arbuticola* Fr. S. M. II. p. 500. — Gregaria, confluens, epidermide nigrescente tecta, peritheciis difformibus nigris astomis, disco demum erumpente opaco; sporulis generis. 2028

Hab. in foliis emortuis Arbuti (Arctostaphyli) Uva-Ursi in Suecia et Scotia. — Valde versiformis, ut plures species facile commutatas crederes. In utraque pagina foliorum ramulorumque, epidermide nigrescente, prominent puncta nigra, niditula, difformia, quæ sunt perithecia in parenchymate nidulantia epidermide adhuc tecta; dein findunt epidermidem in lacinias laxas inæquales, plerumque in lineas longas subramosas curvatas confluentia, nigra, opaca, varia. *Xyloma cupulatum* Fries Obs. 2. p. 360, nil est nisi status vetustissimus.

205. **Diplodia petiolaris** Peck, Rep. on the St. Mus. N. Y. — Peritheciis minutis, sparsis, convexis v. depressis, nigris; sporulis ellipsoideis, 1-septatis leniter constrictis, plerumque 2-nucleatis, fuligineis, 20 μ . longis. 2029

Hab. in petiolis foliorum dejectorum, Greenbush in Amer. bor.

206. **Diplodia Phyllostictæ** Cooke in Grevillea. — Macula pallida, brunneo-cincta; peritheciis semiimmersis, atris, gregariis; sporulis ellipticis, uniseptatis, parvulis, 16 \approx 8. 2030

Hab. in foliis arborum silvaticarum, Mysore in India or.

207. **Diplodia anomala** Mont. Syll. n. 946 et Cent. III. n. 15, et Cuba, p. 332. — Sparsa conglomerataque, phyllogena; peritheciis innatis erumpentibus ovoideo-conicis acutis, apice poro pertusis; sporulis initio simplicibus (sphæropsideis) oblongis hyalinis pedicellatis, paraphysibus concomitantibus, demum violaceis bilocularibus. 2031

Hab. in foliis coriaceis, Cuba (AUBER).

III. In caulibus herbaceis Dicotyledonearum.

208. **Diplodia fœniculina** Thüm. Contr. Myc. Lusit. n. 327. — Peritheciis numerosis, subepidermicis postremo perforantibus liberisve, parvulis, nitido-atris, gregariis; sporulis ellipticis vel cylindrico-ellipsoideis, utrinque angustatis et rotundato-acutatis, medio non 2032

constrictis, sæpe leniter arcuatis et inæquilateralibus, dilute fuscis, 15-19 \approx 10-12.

Hab. in caulibus emortuis Fœniculi officinalis, Mizarella pr. Coimbra in Lusitania (MOLLER).

209. **Diplodia perpusilla** Desm. in Ann. Sc. Natur. 1846, VI. p. 68. 2083

Sphæria Fœniculi Cast. Cat. plant. Mars. p. 176. — Peritheciis sparsis, numerosis, minutissimis, 100 μ . diam., nigris, epidermide primo tectis, dein superficialibus; sporulis ellipticis, medio leniter constrictis, utrinque subacutatis, dilute fuscis, cellula superiore paullulo majore, 8-11 \approx 4.

Hab. in caulibus exsiccatis Fœniculi officinalis in Gallia.

210. **Diplodia Linariæ** Rabenh. Hedw. 1873, p. 141 (nomen). 2034

Hab. in caulibus siccis Linariæ vulgaris, in primis in eorum areis dealbatis, in Germania.

211. **Diplodia sarmentorum** Fr. Summa Veg. Scand. p. 417. *Sphæ-* 2035

ria sarmentorum Fr. S. M. II. p. 498. — Sparsa, peritheciis hemisphæricis prominentibus levibus nitidis, intus atris, ostiolo prominulo sublacerato; sporulis ovoideo-oblongis didymis, 25-30 \approx 14, fuligineis, vix constrictis, stipitatis.

Hab. in sarmentis Menispermici canadensis in hortis Sueciæ, Germaniæ, Italiæ. — Perithecia utique tecta, sed valde prominent et quando epidermis tollitur, eidem ad dimidium adhærent, non collabentia. Ostioli papillæformis rudimentum rarissime adest, sed perithecia demum lacerata reperiuntur.

212. **Diplodia Humuli** Fuck. Symb. myc. p. 393. — Peritheciis cæ- 2036

spitosis solitariisve, erumpentibus, globosis, in rostrum breve cylindraceum attenuatis, rugulosis, atris; sporulis oblongis, æqualibus («22 \approx 12, leniter constrictis, fuligineo-nigricantibus»).

Hab. in sarmentis dejectis Humuli Lupuli in Germania et Gallia.

213. **Diplodia Marsdeniæ** Thüm. F. austr. n. 1164. — Peritheciis gre- 2037

gariis, raro confluentibus, epidermide tectis, demum liberis, erumpentibus, majusculis, atris, fere globosis; sporulis ovato-oblongis, fuscis, 18 \approx 6.

Hab. in ramulis emortuis Marsdeniæ erectæ in horto botanico Pest in Hungaria (H. LOKA) et in horto bot. patavino.

214. **Diplodia asclepiadea** C. et Ell. in Grevillea. — Gregaria; pe- 2038

ritheciis globosis, atris, papillatis, levibus, primo tectis, demum denudatis; sporulis ellipticis, brunneis, 2-nucleatis, verisimiliter denique 1-septatis, 20-22 \approx 10.

- Hab.* in caule *Asclepiadis*, New Jersey in Amer. bor.
215. **Diplodia gossypina** Cooke in Grevillea. — Gregaria, erumpens; 2039
peritheciis subconicis, atris, subtus applanatis, fibrosis; sporulis
ellipticis, olivaceo-brunneis, $22 \approx 12$.
Hab. in capsulis siccis *Gossypii*, Bombay in India et Washington in America boreali.
216. **Diplodia Sidæ** Pass. et Beltr. F. Sicul. n. 28. — Peritheciis sub- 2040
globosis longitrorsum seriatis, epidermidem pustulatim sublevantibus,
dein denudatis, atris, minute papillatis, plus minus collabentibus;
sporulis minutis, oblongo-ellipticis, didymis, fuscis, $7\frac{1}{2} \approx 3\frac{3}{4}$
non vel vix constrictis.
Hab. ad ramos aridos *Sidæ pictæ?* Licata in Sicilia.
217. **Diplodia Althææ** Speg. Mich. I. p. 485. — Peritheciis superfi- 2041
cialibus, hemisphærico-conoideis, ostiolo papillato acutiusculo donatis,
 $250-300 \mu$. diam.; sporulis fuligineis, ellipticis, utrinque obtusis,
1-septatis, non vel vix constrictis, $16-20 \approx 8-9$.
Hab. in caulibus emortuis putrescentibus *Althææ roseæ*, Conegliano in Italia boreali.
218. **Diplodia hypericina** Sacc. Mich. II. p. 266. — Peritheciis spar- 2042
sis, epidermide tectis, et quandoque ligno semiinfossis, globuloso-depressis,
obtusis papillatis, contextu distincte parenchymatico, nucleo initio albo-farcto;
sporulis ellipsoideis, $20-25 \approx 15$, stipitellatis, diu hyalinis, dein fuligineis,
tenuiter 1-septatis.
Hab. in caulibus *Hyperici calycini*, Selva in Ital. bor.
219. **Diplodia Androsæmi** Sacc. Mich. II. p. 266. — Peritheciis spar- 2043
sis epidermide tectis, dein erumpentibus, globosis, conoideo-papillatis,
aterrimis; sporulis oblongis $20 \approx 8-9$, constricto-didymis, aterrimis.
Hab. in caule *Androsæmi officinalis* in silva Montello Italiae borealis.
220. **Diplodia Dulcamaræ** Fuck. Symb. mycol. p. 175. — Peritheciis 2044
seriatim dispositis, confluentibus, erumpentibus, media magnitudine,
globosis irregularibusque, atris, papillatis; sporulis ovatis oblongisve
fuscis, magnitudine variis (sec. Karst. ad septum constrictis, $22-25 \approx 12-13$).
Hab. in ramulis aridis *Solani Dulcamaræ*, Hattenheim in Rhenogovia,
Jakobstad in Fennia et Coimbra in Lusitania. — Sec. Fuckel pycnidium
Cucurbitaricæ Dulcamaræ Fr.
221. **Diplodia obsoleta** Karst. Symb. myc. Fenn. XV. p. 157. — Pe- 2045
ritheciis subgregariis, epidermide tectis, subsphæroideis, astomis v.

sæpius ostiolo perforante papillato, atris, glabris, 0,1–0,2 mill. d.; sporulis oblongis v. subellipsoideis, rectis v. leniter curvulis, subinde inæqualibus, septo obsoleto, flavescentibus, 6–8 \approx 2–3, subeguttulatis.

Hab. in caulibus aridis Solani tuberosi, prope Mustiala Fenniaë.

222. **Diplodia diatrype** Lév. Ann. Sc. nat. 1846, p. 292. — Peritheciis sparsis v. 3–4 glomeratis, innatis globosis nigris, epidermide in orbem rupta circumdatis; ostiolis papillatis; sporulis generis. 2046

Hab. ad ramos Lycii barbari prope Parisios. — Cl. Léveillé citat quoque in Fraxino excelsiore: an eadem species?

223. **Diplodia Lycii** Symb. myc. p. 394. — Peritheciis in cæspites oblongos linearesque erumpentibus, subconfluentibus, atris, globosis, demum depressis, minute papillatis; sporulis ovato-oblongis, fuscis. 2047

Hab. in ramulis siccis Lycii barbari in Rhenogovia. — ***D. lyciella** Sacc. Mich. II. p. 622. — Peritheciis subsparsis, globosis, breve papillatis, erumpentibus, $\frac{1}{2}$ mill. diam.; sporulis ovato-oblongis, 25 \approx 10–12, 1-septatis, vix constrictis, fuligineis; basidiis bacillaribus, hyalinis. In ramulis corticatis Lycii barbari, Saintes in Gallia.

224. **Diplodia rutæcola** Thüni. Contr. F. Litor. n. 141 tab. I. fig. 11. — Peritheciis minutis, dense gregariis, pulveris pyrii facie, prominulis, globosis, interdum confluentibus, nigris; sporulis cylindrico-ovatis, utrinque rotundatis, septatis, ad septa non vel leniter constrictis, parte inferiore interdum paullo latiore, impellucidis, fuscis, 20 \approx 8–10. 2048

Hab. ad ramulos emortuos Rutæ graveolentis, Gorizia in Italia boreali.

225. **Diplodia sedicola** Cooke et Harkn. in Grev. 1881, p. 82. — Sparsa, prominula, erumpens; peritheciis subglobosis, atris; sporulis ellipticis, uniseptatis, brunneis, medio non constrictis, 20 \approx 8,5. 2049

Hab. in caule Sedi in California.

226. **Diplodia microscopica** C. et Harkn. in Grev. 1880 p. 6. — Sparsa, tecta; peritheciis minimis, vix conspicuis; sporulis ellipticis, pallide fuscis, uniseptatis, leniter constrictis, 10 \approx 3. 2050

Hab. in caule Cynoglossi in California.

227. **Diplodia Georginæ** (Corda) Lév. Ann. Sc. nat. 1846, pag. 292. *Sporocadus Georginæ* Corda Ic. III. p. 23, fig. 64. — Peritheciis punctiformibus, conicis, obtusiusculis, semiimmersis, atris, ostiolo 2051

perforato; sporulis oblongis, constricto-1-septatis, fuscis, 22-26 μ . longis, basidiis paliformibus, hyalinis.

Hab. in caulibus subsiccis Georginæ variabilis in horto botanico Prag in Bohemia.

228. **Diplodia andicola** Speg. Fung. Argent. I. p. 36. — Peritheciis 2052
sparsis, parenchymati immersis, lenticularibus, prominulis, atris, $\frac{1}{5}$ - $\frac{1}{4}$ mill. diam., ostiolo impresso donatis, membranaceis; contextu parenchymatico, fuligineo-olivaceo; sporulis ellipticis vel ovoideis, utrinque obtusis primo hyalinis, granuloso-farctis, dein fuligineis 1-pseudoseptatis, 15-20 \approx 8-10.

Hab. in foliis emortuis Doniophyti andicoli in alpinis de Catamarca Argentinae.

229. **Diplodia Abrotani** Fuck. Symb. myc. p. 394. — Peritheciis te- 2053
ctis, seriatis, globosis, vertice applanatis, papillatis, atris, basi usque ad medium stramineo-tomentosis; sporulis oblongis, fuscis («continuis?»).

Hab. in caulibus siccis Artemisiæ Abrotani in Rhenogovia.

230. **Diplodia caulicola** Fuck. Symb. myc. p. 392. — Peritheciis gre- 2054
gariis, magnitudine eorum *Pleosporæ herbarum*, globosis, tectis, atris, ostiolis cylindræis, brevissimis, obtusis, perforatis, per epidermidem erumpentibus; sporulis oblongis («continuis?»).

Hab. in caulibus siccis Tanaceti vulgaris in Rhenogovia.

231. **Diplodia sparsa** Fuck. Symb. myc. p. 395. — Peritheciis tectis, 2055
demum per epidermidem fissam erumpentibus, majusculis, sparsis vel 2-4 aggregatis, globosis, nigris, nitidis; ostiolis minutis, papillatis; sporulis ovatis elongatisve, didymis, fuscis.

Hab. in caulibus siccis Spirææ Ulmariae, rarius in Rhenogovia.

232. **Diplodia clematidea** Sacc. *Diplodia Clematidis* Kalch. et Cooke 2056
in Grevillea 1880, p. 19, nec Sacc. — Sparsa, erumpens, epidermide cincta; peritheciis obtusis, atris, opacis; sporulis ellipticis, uniseptatis, non constrictis, fuscis, 12-14 \approx 5.

Hab. in caulibus Clematidis brachiatae in Africa austr.

233. **Diplodia Clematidis** Sacc. Mich. I. p. 518. — Peritheciis grega- 2057
riis, subcutaneo-erumpentibus, globoso-papillatis, $\frac{1}{3}$ mill. diam.; sporulis ovoideis, 20-25 \approx 12-14, diu continuis, fuligineis.

Hab. in sarmentis Clematis Vitalbæ, Saintes in Gallia (BRUNAUD).

234. **Diplodia Lupini** Cooke et Harkn. in Grev. 1881, p. 82. — Spar- 2058
sa; peritheciis atris, globosis, semiliberis; sporulis ellipticis, utriu-

que subattenuatis, uniseptatis, medio constrictis, brunneis, cellulis subtriquetris, $28 \approx 10$.

Hab. in caulibus Lupini in California.

235. **Diplodia elæospora** Sacc. Mich. II. p. 105. — Peritheciis gregariis, initio epidermide velatis, dein erumpentibus, globoso-papillatis, $\frac{1}{5}$ mill. diam.; contextu parenchymatico fusco; sporulis ovato-oblongis, $18-20 \approx 5-6$, constricto-1-septatis rectis, utrinque obtusiusculis, pluriguttulatis, flavo-olivaceis, brevissime stipitatis.

Hab. in caulibus putrescentibus Medicaginis sativæ, Saintes in Gallia (BRUNAUD).

236. **Diplodia Passifloræ** Penz. et Sacc. F. Mortol. n. 35, tav. V. fig. 19. — Peritheciis sparsis vel laxe gregariis, epidermide tectis, demum erumpentibus, majusculis $180-200 \mu$. diam., globosis, ostiolo papillato, conico, contextu parenchymatico, aterrimo, carbonaceo; sporulis didymis, medio forte restrictis, loculo utroque fere globuloso, sphæroideo, brunneo-olivaceis, $23-25 \approx 11-12,5$; basidiis obsoletis.

Hab. in pedunculis exsiccatis Passifloræ hybridæ, Mortola in Italia boreali.

237. **Diplodia Aconiti** Paul Brunaud in Roum. Revue Mycol. IV. p. 225. — Peritheciis sparsis vel aggregatis, tectis, dein erumpentibus, globuloso-depressis, nigris, lucidis; sporulis oblongis, 1-septatis, non constrictis, fuligineis, $20 \approx 8$.

Hab. in ramis emortuis Aconiti Napelli, Saintes in Gallia.

238. **Diplodia Ricini** Sacc. et R. in Rev. Myc. III. p. 29. — Peritheciis gregariis, tectis, globoso-conoideis, $\frac{1}{6}$ mill. diam.; sporulis oblongis, $25 \approx 6,5-7$, diu hyalinis, dein fuligineis 1-septatis, haud constrictis, stipitellatis.

Hab. in caule Ricini, Jardin du Hamma in Algeria.

239. **Diplodia Euphorbiæ** Brun. in Roum. Revue Myc. IV. p. 226. — Peritheciis epidermide tectis, dein erumpentibus, sparsis vel aggregatis, globuloso-convexis, nigris, lucidis, pertusis, $\frac{1}{4}$ mill. diam.; sporulis oblongis, initio hyalinis et continuis, granulosis, dein 1-septatis, fuliginosis, non constrictis, $24-25 \approx 10-10,5$.

Hab. in caulibus emortuis Euphorbiæ palustris, Saintes in Gallia.

240. **Diplodia Rheeæ** Cooke in Grevillea. — Sparsa, erumpens; peritheciis atris, globosis, subpapillatis; sporulis ellipticis, fuligineis, demum uniseptatis, $20 \approx 8$.

Hab. in caulibus Bœhmeriæ niveæ, Assam in India.

241. **Diplodia vulgaris** Lév. Ann. Sc. nat. 1846, p. 291. — Peritheciis globosis, innatis, gregariis, epidermide stellatim fissa tectis, intus albis («semper?»), ostioliis prominulis. 2065

Hab. in caulibus corticatis variarum herbarum (LÉVEILLÉ), Hymenææ et Hederæ in Amer. bor. (CLINTON, RAVENEL), Dipteris in Cuba (BERKELEY).

242. **Diplodia herbarum** (Corda) Lév. Ann. Sc. nat. 1846, p. 292. *Sporocadus herbarum* Corda Ic. III. f. 63. — Peritheciis cauliculis, erumpentibus, gregariis, globoso-oblongis, convexis, dein inæqualiter depressis, nigris; sporulis oblongis, 1-septatis, leniter constrictis, fuligineis pedicellatis, 20-25 = 9-12. 2066

Hab. in caulibus Lappæ, Thalictri, Lactuæ, Ferulæ, Gossypii, Lilii etc. in Gallia, Germania, Britannia, Italia, Algeria, America bor. — Var. β . **Menthæ** Sacc. Mich. I. pag. 517: peritheciis subcutaneis, minutis; sporulis ovato-oblongis, 25 = 10, constricto-1-septatis pedicellatis, atrofuligineis. In caule Menthæ, Saintes in Gallia. — Var. γ . **Dianthi** Sacc. Spec. p. 202, non Ces.: peritheciis cylindræo-conicis, majusculis, atris; sporulis didymis fuscis, medio vix constrictis, 18 = 12. In caulibus Dianthi Caryophylli Patavii.

243. **Diplodia Andamensis** Cooke in Grevillea. — Gregaria, erumpens; peritheciis applauatis, nigris, supra depressis, pallido-cinctis; sporulis ellipticis, brunneis, non constrictis, 28-30 = 12. 2067

Hab. in caule repente cujusdam plantæ dictæ Pilita Dak, in insulis Andaman Oceani indici.

IV. In Monocotyledoneis.

244. **Diplodia smilacina** Berk. North Am. p. 67 (nomen), Sacc. M. V. n. 1027. — Peritheciis gregariis, subcutaneo-erumpentibus, prominulis, globoso-papillatis, atris, cuticulâ atrata nitida tectis v. cinctis; sporulis brevibus, didymis, 20 = 14, fuligineis. 2068

Hab. in sarmentis emortuis Smilacis rotundifoliæ et tamnoidis, Ohio et Carolina super., et Smilacis Alpini in horto patavino Ital. bor. — Ubi cl. Berkeley speciem suam descripsit, nunc me latet.

245. **Diplodia Rusci** Sacc. et Th. Mich. II. p. 625. — Peritheciis late gregariis, $\frac{1}{6}$ mill. diam., subcutaneis, globosis, ostiolo vix erumpente; sporulis oblongis, uniseptatis, leniter constrictis, utrinque obtusiusculis, 8-10 = 5-6, fuligineis. 2069

Hab. in caule emortuo Rusci aculeati, St. Vallier (Drôme) in Gallia (THERRY).

246. **Diplodia minuscula** Penz. et Sacc. F. Mort. n. 34, tav. V. fig. 18. — Peritheciis minutissimis, gregariis, punctiformibus, innato-erumpentibus, depressis, brunneis, 67-100 μ . diam.; sporulis ellipticis vel ovoideis, medio septatis, loculis sæpius inæqualibus, atro-brunneis, ad septum haud constrictis, 8-10 \times 2-3,5. 2070

Hab. in squamis exsiccatis Dracænæ indivisæ, Mortola in Italia boreali.

247. **Diplodia Agaves** Niessl in Hedw. 1878, p. 176. — Peritheciis gregariis, minutis, epidermide velatis, depressis, atris; sporulis oblongis, rotundatis, medio 1-septatis, fuscis, 6-9 \times 4. 2071

Hab. ad folia languida Agaves americanæ in India orient. (Doct. S. KURZ).

248. **Diplodia circinans** B. et Br. F. of Ceyl. n. 786. — Peritheciis circinantibus epidermide nigrifacta centro pallido tectis; sporulis brevibus ellipticis obtusissimis 25 \times 10. 2072

Hab. in foliis Yuccæ gloriosæ et aloifoliæ in Ceylon et America boreali.

249. **Diplodia Yuccæ** West. V. Not. p. 18. — Peritheciis epiphyllis, sparsis, epidermide dein laciniatim fissa tectis, nigris, globuloso-papillatis; sporulis ovoideis, 2-ocularibus, fuligineis. 2073

Hab. in basi foliorum Yuccæ aloifoliæ in Belgio (LEBURTON) et in Lusitania (MOLLER). — Specimina, quæ vidi, italica in Yucca gloriosa (Erb. cr. ital.), ad *Coniothyrium* spectant.

250. **Diplodia Radula** B. et Br. F. of Ceyl. n. 785. — Peritheciis minutis epidermidem albifactam elevantibus, ostiolis distinctis; sporulis ellipticis, 25 μ . longis. 2074

Hab. in Musaceis in insula Ceylon (BERK., BECCARI). — Basidia cuneiformia.

251. **Diplodia pinnarum** Passer. Micromyc. ital. diagn. sub n. 8, p. 2. Penzig in F. Mortol. n. 36. — Peritheciis sæpe seriatis, erumpentibus, globoso-conicis, atris; sporulis ellipsoideis minutis, 10-12 \times 5-6, 1-septatis, vix constrictis fuligineis. 2075

Hab. in foliis languidis Phœnicis dactyliferæ in Liguria (PASSERINI, PENZIG).

252. **Diplodia Passeriniana** Thüm. Fungi nonnull. ital. novi. — Peritheciis epiphyllis, raro amphigenis, sparsis, sæpe plus minusve in orbem dispositis, epidermide tectis, demum erumpentibus, minutis, atris, in macula exarida, sordide flavescenti, rufo-marginata, præ- 2076

cipue in foliorum apicibus marcidis; sporulis parvis, ovalibus, utrinque rotundatis, uniseptatis, ad septum leniter constrictis, cinereis, 8-11 \times 3,5-4,5.

Hab. in foliis vivis v. languidis Phœnicis et Chamæropis Genova, S. Remo, Bordigham in Liguria. — A *Dipl. depazeoide* distinguenda.

253. **Diplodia palmicola** Thüm. F. Austr. n. 59. — Peritheciis numerosis, minutis, primo longe diu epidermide tectis, demum erumpentibus, subplanis, levibus vel leviter granulatis, subimmersis, atris, mox evacuatis; sporulis longe ellipticis, utrinque subacutatis, medio non constrictis, bicellularibus, sordide fuscis, impellucidis, 20 \approx 10. 2077

Hab. in epicarpio Cocos nuciferæ, Wien in Austria. — *Sphæria palmicola* Fr. Obs. mycol. I. p. 179 et S. M. II. p. 466 an eadem planta? — Differt a *Diplodia epicocos* Cooke Grev. VI. p. 102, sporulis medio non constrictis et paullo minoribus.

254. **Diplodia cococarpa** Sacc. Miscell. myc. F. Tah. n. 6. — Peritheciis dense gregariis, subcutaneo-erumpentibus, globosis, papillatis atris, intus nitidulis, $\frac{1}{3}$ mill. diam.; sporulis stipitatis ellipsoideo-oblongis, 22 \approx 12, 1-septatis, vix constrictis fuliginosis, subinde longitudinaliter striatulis, filamentis (paraphysibus?) filiformibus, hyalinis, duplo longioribus intermixtis. 2078

Hab. ad parietem inter pericarpium putridi Cocos nuciferæ in insula Tahiti (G. BRUNAUD).

255. **Diplodia epicocos** Cooke in Grevillea t. 86, fig. 2. — Sparsa vel subgregaria; peritheciis demum superficialibus vel semiimmersis, globosis, atris; sporulis ellipticis, uniseptatis, constrictis, brunneis, 22 \approx 10-12. 2079

Hab. in foliis juvenilibus emortuis Cocos nuciferæ in India orient.

256. **Diplodia depazeoides** Dur. et Mont. Fl. Alg. pag. 575 et Syll. Crypt. p. 266. — Amphigena, maculiformis; peritheciis minutis epidermide tectis, demum erumpentibus, globoso-depressis, atris, in utraque folii decolorati pagina obviis; basidiis brevibus, sporulas breviter oblongas biloculares sustinentibus. 2080

Hab. in foliis Chamæropis humilis, Mascara in Algeria (DURIEU) et Phœnicis dactyliferæ in horto botanico Coimbra in Lusitania (MOLLER).

257. **Diplodia Calami** Niessl in Hedw. 1878, pag. 176. — Peritheciis; sporulis oblongis, obtusis, medio 1-septatis, fuscis, 8-10 μ . latis. 2081

Hab. in foliis emortuis Calami in India orient. (Doct. KURZ).

258. **Diplodia caricina** Sacc. M. V. n. 1203. et Mich. I. p. 256. — Peri- 2082
theciis gregariis, globosis, innato-erumpentibus, atris, ostiolo conoi-
deo parum emergente; sporulis obovoideis, $25 \approx 15$, diu continuis,
fuligineis.

Hab. in foliis emortuis Caricis japonicæ in horto patavi-
no Ital. bor. (BIZZOZERO). — An *Sphæropsis*?

259. **Diplodia pellica** Cesati Hedw. 1882, p. 9, Syll. fung. II. p. 68. 2083
— Peritheciis sparsis, subcutaneis, nigris; sporulis ovoideis utrin-
que obtusissimis, $20 \approx 14$, obscure septatis, brunneis.

Hab. in foliis Dasylirii juncei in horto botanico neapoli-
tano, sociâ *Leptosphæria* et *Phoma*.

260. **Diplodia myriospora** Sacc. Mich. II. p. 269. — Peritheciis gre- 2084
gariis v. hinc inde aggregatis, erumpenti-superficialibus, globulo-
sis, papillatis, piceis $\frac{1}{3}$ - $\frac{1}{2}$ mill. diam.; contextu parenchymatico
atrofuligineo; sporulis ellipsoideis, minutis, $5-6 \approx 2-\frac{1}{3}-3$, 1-septatis,
non constrictis, fuligineis, basidiis brevissimis suffultis.

Hab. in culmo putri Arundinis Donacis intus et extus,
Padova in Italia boreali (BIZZOZERO).

261. **Diplodia arundinacea** Dur. et Mont. Fl. Alg. p. 574 et Syll. n. 2085
954. — Peritheciis innato-erumpentibus globoso-papillatis, sparsis
v. aggregatis, atris opacis, tandem denudatis deciduis; basidiis
longis; sporulis oblongis mature bilocularibus fuscis, $20-25 \approx 12-$
 15 , medio vix constrictis.

Hab. intra culmum fistulosum Phragmitis communis, La
Calle in Algeria (DURIEU) et Arundinis Donacis, Padova in
Italia boreali.

262. **Diplodia Secalis** (Lib.) Speg. et Roum. in Rev. Myc. *Melanco-* 2086
nium Secalis Lib. Herb. — Peritheciis minimis globosis, tomen-
tosis, nigris, epidermide tectis; sporulis minutissimis, ovoideis atris
didymis, rarius continuis, fuligineis, $6-8 \approx 3-4$, mox cirrose exsi-
lientibus matricemque atro-inquinantibus.

Hab. in culmis putrescentibus Secalis cerealis prope Mal-
medy in Arduennis.

263. **Diplodia Maydis** (Berk.) Sacc. *Sphæria Maydis* Berk. Lond. 2087
Journ. 1847, p. 326, *Sphæria Zeæ* Curr. Simpl. Sphær. n. 358,
f. 128. *Dipl. Zeæ* Lév. Ann. Sc. nat. 1848, p. 258. — Peritheciis
gregariis, innatis, ovatis, intus extusque nigris, epidermide nigra
tectis, ostiolis erumpentibus, conico-acutis; sporulis elliptico-cylin-

draceis, utrinque obtusiusculis subinde clavulatis, rectis vel curvulis, 1-septatis, vix constrictis, 25-30 \approx 6, fuligineis.

Hab. in culmis, interdum pallide maculatis, Zeæ Maydis in Carolina, Ohio, New Jersey, Gallia, Italia frequens.

264. **Diplodia Ischæmi** Pass. Erb. critt. it. II. n. 594. — Peritheciis 2088
erumpentibus, aggregatis v. sparsis, subglobosis, atris, ostiolo vix prominulo; sporulis oblongo-ellipsoideis, initio continuis, hyalinis, tandem 1-septatis, non v. vix constrictis, 20-25 \approx 8-9, fuligineis; basidiis bacillaribus, hyalinis.

Hab. in culmis et rhizomatibus *Andropogonis Ischæmi*, Parma, Padova in Italia boreali (Pass., Sacc.) et Eisleben in Germania (Zopf).

MACRODIPLODIA Sacc. (Etym. *macro* longus v. magnus, et *Diplodia*). — Perithecia tecta, corticola, majuscula, massarioidea, vertice pertusa. Sporulæ oblongæ, 1-septatæ, fuliginæ, strato mucoso hyalino obductæ, stipitellatæ. — Pycnidia *Massariarum* sistit genus.

1. **Macrodiplodia Curreyi** Sacc. et Roum. Reliq. Libert. IV. n. 138. 2089
— Peritheciis gregariis massarioides globulosis, tectis; sporulis oblongis, utrinque obtusiusculis, 60 \approx 18, medio 1-septatis, vix constrictis, fuligineis, strato mucoso obductis, dein eructando fœdantibus; basidiis bacillaribus 10 μ . longis, hyalinis.

Hab. in ramis corticatis Tiliæ europææ in Arduennis (LIBERT).
— Pycnidium *Massariæ Curreyi*.

2. **Macrodiplodia Ulmi** Sacc. *Massariæ Ulmi* pycnid. Fuck. Symb. 2090
p. 153. — Peritheciis in corticis superiori parte nidulantibus, triplo minoribus quam fungi ascophori, nucleo sordide albo; sporulis oblongo-lanceolatis, medio 1-septatis, annulo hyalino, angustissimo, 64 \approx 26.

Hab. in ramis corticatis Ulmi campestris in Rhenogovia.

CHÆTODIPLODIA Karst. Hedw. 1884, p. 62 (Etym. *chæte* seta, et *Diplodia*). — Perithecia setosa v. pilosa, erumpentia v. subsuperficialia, globoso-papillata, atra, membranaceo-carbonacea. Sporulæ oblongæ 1-septatæ, coloratæ.

1. **Chætodiplodia caulina** Karst. Hedw. 1884, pag. 62. — Peritheciis 2091
gregariis subsuperficialibus subcarbonaceis, ovoideis, minute papillatis, atris, setulis substrictis, divergentibus, septatis, atris obsessis, 0,3 mill. diam.; sporulis oblongatis v. subellipsoideis, rectis

utrinque obtusis, 1-septatis, non v. vix constrictis, flavidis, 12-17 = 5-6.

Hab. in caulibus emortuis (nigrificatis) *Chenopodii albi*, Mustiala in Fennia.

2. **Chætodiplodia hirta** Sacc. *Massariæ hirtæ* Pycnidium Fuck. Symb. 2092 p. 155. — Peritheciis minutis, atris, pilis pallidioribus undique tectis, sub epidermide nidulantibus, majusculis; sporulis ovatis oblongisve, plerumque uniseptatis, rarius 2-3-septatis, fuscis, 10 = 4-5.

Hab. in ramis corticatis *Sambuci racemosæ* in Rhenogovia.

3. **Chætodiplodia arachnoidea** (Ces.) Sacc. *Diplodia arachnoidea* Ces. 2093 Hedw. I. p. 41, t. V. fig. 1. — Peritheciis stromate punctiformi byssino radiante evanido insidentibus, nunc minutissimis etiam adultis, et tum dense aggregatis, nunc grani Sinapeos magnitudine et sparsis magis, semper regularibus, e lata basi ovatis vel conicis, nigris sed denso tegmine araneoso cinereo velatis, nisi papilla obtusa atra emergente; sporulis didymis, opacis, olivaceis; cirris aterrimis.

Hab. in ligno laricino vernice olearia obducto in Lyceo vercellensi Italiæ bor.

4. **Chætodiplodia chætomioides** (Ces.) Sacc. *Diplodia chætomioides* 2094 Ces. Hedw. I. t. V. f. 2. a-f. (sine diagnosi). — Peritheciis dense gregariis subsuperficialibus inæqualibus, globoso-oblongis, apice obtusis v. rotundatis v. subconicis, atris, pilis patulis brevibus conspersis; sporulis oblongis, utrinque rotundatis, typice biguttatis, subinde medio leniter constrictis, fuligineis, stipitellatis.

Hab. in asseribus laricinis vernice e recenti illitis, aëri et luci expositis, Vercelli in Italia superiore, sociâ *Chætodiplodia arachnoidea*. — Sporulæ continuæ revera delineatæ sunt, sed quia biguttatæ et medio leniter constrictæ verisimiliter biloculares fierent.

5. **Chætodiplodia hirtella** Sacc. Mich. II. p. 268 (sub *Diplodia*). — Pe- 2095 ritheciis sparsis, erumpenti-subsuperficialibus, globoso-papillatis, aterrimis, setulosis; sporulis oblongo-ellipsoideis, 25-28 = 12-14, diu hyalinis, stipitellatis, medio subconstrictis.

Hab. in foliis *Pittospori Tobiræ* in horto patavino Italiæ borealis.

DIPLODIELLA Karst. Hedw. 1884, p. 62 (Etym. a *Diplodia*, cui affine genus). — Perithecia superficialia, plerumque lignicola, globoso-papillata, atra, glabra, subcarbonacea. Sporulæ ellipsoideæ v. oblongæ, 1-septatæ, coloratæ.

1. **Diplodiella crustacea** Karst. Hedw. 1884, pag. 62. — Peritheciis 2096
confertissimis, crustaceo-aggregatis, superficialibus, carbonaceis,
subovoideis, vertice attenuatis, atris, glabris, nitidis, 0,3-0,4 mill.
diam.; sporulis oblongatis v. ellipsoideis, utroque apice obtusis,
rectis v. subrectis, 1-septatis, septo non v. vix constrictis, dilute
fuscidulis, 8-13 \approx 3-4.
Hab. ad lignum pineum prope Mustiala in Fennia.
2. **Diplodiella fibricola** (Berk.) Sacc. *Diplodia fibricola* Berk. Hook. 2097
Journ. 1853, p. 42, t. III. f. 12. — Maculis pallidis v. obsoletis;
peritheciis minutis elongatis, fibrarum cursum sectantibus; sporu-
lis minutis, ellipsoideis, medio leniter constrictis septatisque, 6 μ .
longis pallide ochraceo-brunneis.
Hab. in ligno Populi italicæ, King's Cliffe in Britannia.
3. **Diplodiella oospora** (Berk.) Sacc. *Diplodia oospora* Berk. Hook. 2098
Journ. 1853, p. 42, t. II. f. 11. — Maculis olivascentibus; perithe-
ciis minutis, elongatis; sporulis minutis, obovatis, brunneo-ochra-
ceis, 1-septatis, 7,6 \approx 6.
Hab. in ligno salicino, King's Cliffe in Britannia.
4. **Diplodiella quercella** Sacc. et Penz. Mich. II. p. 623 (sub *Diplodia*). 2099
— Peritheciis subsuperficialibus, sparsis, globosis, papillatis, mi-
nutulis, atris; sporulis oblongis, 1-septatis, lenissime constrictis,
18-19 \approx 7-9, fuligineis; basidiis teretiusculis, hyalinis, 15-16 \approx 2-2,5.
Hab. in ligno denudato putrescente Quercus, Lyon in Gallia
(THERRY).
5. **Diplodiella fibriseda** Sacc. Mich. II. p. 270. (sub *Diplodia*). — Pe- 2100
ritheciis minutis e fibris ligneis erumpentibus, globoso-oblongis, pa-
pillulatis, aterrimis; sporulis diu hyalinis, continuis, guttulatis,
tandem 1-septatis, vix constrictis, 20-25 \approx 12-13, fuligineis.
Hab. in ligno denudato Juglandis et Broussonetiæ, Vit-
torio, Padova in Italia boreali. — Habitus *Dipl. fibricolæ* Berk.,
sed sporulæ diversissimæ.
6. **Diplodiella decorticata** (C. et Ell.) Sacc. *Diplodia decorticata* C. et 2101
Ell. in Grevillea. — Subgregaria; peritheciis breviter hysteriori-
formibus, atris, in fibrillis insidentibus; sporulis ellipticis, profunde
constrictis, brunneis, 20-25 \approx 12-15, loculis depresso-sphæroideis.
Hab. in ramis decorticatis Sassafras, New Jersey in Ame-
rica boreali.
7. **Diplodiella millegrana** (C. et Harkn.) Sacc. *Diplodia millegrana* 2102
C. et Harkn. in Grevillea n. 64. — Superficialis, gregaria; peri-
theciis subglobosis, atris, levibus, minimis; sporulis ellipticis, uni-

septatis, utrinque rotundatis, medio non constrictis, læte fuscis, 22-30 \approx 8.

Hab. in ramis decorticatis *Acaciæ* in California. — Habitus fere *Roselliniæ millegranæ*.

8. **Diplodiella Tecomæ** (C.) Sacc. *Diplodia Tecomæ* Cooke in Grevil- 2103
lea. — Erumpens, demum libera; peritheciis globosis vel piriformibus, atris, sparsis; sporulis ellipticis, uniseptatis, nec constrictis, utrinque nucleatis, atrobrunneis, 30 \approx 12.

Hab. in ligno *Tecomæ* radicans, Aiken Carolinæ inf. in Amer. bor. — An forma lignicola *Diplodiæ Tecomæ* Pass.?

9. **Diplodiella lignicola** (Peck) Sacc. *Diplodia lignicola* Peck Rep. on 2104
the St. Mus. N. Y. — Peritheciis sparsis v. gregariis, prominulis, subglobosis, nigris; sporulis oblongis, constricto-1-septatis, 35 \approx 10.

Hab. in ligno decortico *Abietis balsamæ*, Adirondack in America boreali.

10. **Diplodiella Cowdelli** (B. et Br.) Sacc. *Diplodia Cowdellii* B. et 2105
Br. Ann. N. H. n. 406. — Peritheciis liberis, globosis, nigris, vertice demum dehiscentibus; sporulis minutis, ellipsoideis, 1-septatis.

Hab. in pappo udo *Gossypii*, cui maculas atras affert, in Britannia.

11. **Diplodiella diversa** (Speg.) Sacc. *Diplodia diversa* Sp. F. Arg. 2106
Pug. III. n. 120. — Peritheciis ligno denudato insidentibus, lenticulari-hemisphæricis, atris, carbonaceis, $\frac{1}{3}$ mill. diam., ostiolo papillato donatis; sporulis cylindraceo-ellipticis, medio 1-septatis, non v. vix constrictis, 20-22 \approx 8-10, fuliginis.

Hab. in sarmentis putridis *Araujæ albentis* en la Boca del Riachuelo in Argentina.

BOTRYODIPLODIA Sacc. Mich. II. p. 7. (Etym. *botrys* racemus et *Diplodia*, h. e. *Diplodia* racemoso-congesta). — Perithecia botryoso-congesta, erumpentia, stromate basilari suffulta, membranaceo-carbonacea, sæpius papillata. Sporulæ oblongæ v. ovoideæ, 1-septatæ, fuliginæ.

1. **Botryodiplodia juglandicola** (Schw.) Sacc. *Diplodia juglandicola* 2107
(Schw.) Curr. Comp. Sphær. p. 276. fig. 121. *Sphæria juglandicola* Schw. Cfr. Syll. II. p. 379. — Innata, prominens, pustulis in series parallelas confluentibus, stromate corticali circumscripto; sporulis ovato-oblongis, constricto-1-septatis, 23-25 μ . longis, fuliginis.

- Hab.* in ramis corticatis Juglandis albæ in Carolina Amer. bor. — Habitus, teste Curreyo, *Melanommatis Pulveris-pyrii*.
2. **Botryodiplodia confluens** (B. et Br.) Sacc. *Diplodia confluens* B. 2108 et Br. Ann. N. H. n. 408. — Peritheciis confluentibus cæspitulosque epidermide arrecta cinctos depressos formantibus, irregularibus subinde collabascentibus; ostiolo obsoleto; sporulis oblongis.
- Hab.* in ramis Daphnes Laureolæ in Britannia et Gallia.
3. **Botryodiplodia congesta** (Lév.) Sacc. *Diplodia congesta* Lév. Ann. 2109 Sc. nat. 1846, p. 290. — Peritheciis aggregatis, globosis, innatis, demum erumpentibus nigris epidermide lacerata cinctis, ostiolis prominulis; («sporulis oblongo-ellipsoideis, utrinque rotundatis, 26-28 = 10-12, diu hyalinis plasmateque bipartito, tandem obscure 1-septatis, fuligineis, non vix constrictis; basidiis 18-20 μ . longis»).
- Hab.* ad corticem Juglandis regię pr. Paris in Gallia, et in Italia boreali.
4. **Botryodiplodia Fraxini** (Fr.) Sacc. *Diplodia Fraxini* Fr. Summa 2110 Veg. Sc. p. 417. *Sphæria Fraxini* Fr. S. M. II. p. 493 p. p.? — Cæspitoso-erumpens; peritheciis globosis, papillatis, stipatis, nigris; sporulis clavato-didymis, 20-25 = 10, fuligineis, corticatis, hyalino-stipitatis.
- Hab.* in ramis corticatis Fraxini excelsioris et Orni in Suecia, Germania, Italia, Gallia.
5. **Botryodiplodia scabrosa** (West.) Sacc. *Diplodia scabrosa* West. 2111 Exs. n. 1372, Kickx Fl. cr. Fl. I. p. 398. — Peritheciis majusculis, cæspitoso-erumpentibus, tuberculosus, nigris, poro pertusis; sporulis inæqualibus, ovoideis v. ellipsoideo-oblongis, 1-septatis, subinde constrictis, fuligineis.
- Hab.* in trunco emortuo Ailanthi glandulosæ in Belgio.
6. **Botryodiplodia Ailanthi** (Cooke) Sacc. *Diplodia Ailanthi* Cooke in 2112 Rav. Fung. Amer. n. 150 et in Grevillea. — Erumpens; peritheciis in pustulas congestis, epidermide cinctis; sporulis ellipticis, uniseptatis, non constrictis, brunneis, 25-28 = 10.
- Hab.* in ramis Ailanthi glandulosæ in Carolina Amer. bor. — An diversa a *Botr. scabrosa*?
7. **Botryodiplodia Ravenelii** Sacc. Mich. I. — Peritheciis botryose ag- 2113 gregatis, stromate pulvinato suffultis, globuloso-depressis, nigris, intus initio albis, $\frac{1}{6}$ mill. diam.; sporulis ellipsoideis, diu continuis, 30 = 17, dein 2-ocularibus, leniter constrictis, fuligineis, 25 = 16, basidiis filiformibus subæquilongis suffultis.

Hab. in cortice sarmentorum Carolinæ infer. in America bor.
(RAVENEL).

8. **Botryodiplodia compacta** (C. et Ger.) Sacc. *Diplodia compacta* C. 2114
et Ger. in Grevillea. — Pustulis erumpentibus, epidermide cinctis;
peritheciis confluentibus, obtusis; sporulis ellipticis vel biglobosis,
brunneis, constrictis, $30 \approx 18$.

Hab. in ramis arborum Americæ borealis.

9. **Botryodiplodia valsoides** (Peck.) Sacc. *Diplodia valsoides* Peck. 2115
Rep. on the St. Mus. N. Y. — Peritheciis cæspitosis, cortice in-
teriore nidulantibus, in ostiola longa stromate olivaceo juncta at-
tenuatis, per corticem transverse fissum erumpentibus, nigris; spo-
rulis oblongo-ellipsoideis, profunde constrictis, coloratis, $18-19 \mu$.
longis.

Hab. in cortice Betulæ populifoliæ, Center in Amer. bor.
— Habitus Valsæ ejusdam.

10. **Botryodiplodia cyanostroma** (B. et C.) Sacc. *Diplodia cyano-* 2116
stroma B. et C. North Am. Fungi n. 423. — Peritheciis in stro-
mate cyaneo abditis, pustulato-aggregatis; sporulis breviter obova-
tis vel oblongis pallidis, $12-13 \approx 6$.

Hab. in ramis dejectis in Pennsylvania. — Si sporulæ semper
pallidæ manent, vix *Botryodiplodiæ* species.

11. **Botryodiplodia Celastri** (C.) Sacc. *Diplodia Celastri* Cooke in 2117
Grevillea. — Cæspitosa, erumpens; peritheciis atris, compressis,
elongatis, vix papillatis; sporulis ellipticis, uniseptatis, brunneis,
vix constrictis, $25 \approx 10$.

Hab. in ramis Celastri, New York in Amer. bor.

12. **Botryodiplodia compressa** (Cooke) Sacc. *Diplodia compressa* 2118
Cooke. — Diatrypeformis, erumpens; peritheciis in cæspitulos erum-
pentes congestis, atris; sporulis late ellipticis, uniseptatis, non con-
strictis, brunneis, $20 \approx 12-14$.

Hab. in ramis Rhois, New York in Amer. bor.

13. **Botryodiplodia hypoxylodea** (C.) Sacc. *Diplodia hypoxylodea* 2119
Cooke in Grevillea. — Cæspitosa, erumpens; peritheciis atris, pa-
pillatis, in pulvinulos convexos congestis, stromate diatrypoideo;
sporulis ellipticis, atro-brunneis, uniseptatis, leniter constrictis,
 $18-20 \approx 8$.

Hab. in cortice radicis Moringæ in Bengala.

14. **Botryodiplodia sphærioides** (Fr.) Sacc. *Dothiora sphærioides* (Fr.) 2120
Cooke Handb. n. 1255. — Gregaria subfasciculata erumpens, ir-

regulariter angulata, dein plana, nigra, intus albida; sporulis maturis (teste Capron in Cooke l. c.) diplodioideis.

Hab. in ramis Fraxini in Britannia et Suecia.

15. **Botryodiplodia pyrenophora** (Berk.) Sacc. *Dothiora pyrenophora* Berk. Exs. n. 282, Cooke Handb. n. 1254. — Erumpens elliptica, plano-depressa, nigra, intus pallida; sporulis (teste Cooke) 1-septatis, brunneis, diplodioideis.

Hab. in ramis Sorbi, Mali et Piri in Suecia et Britannia.

— Primo adpectu *Dothidea ribesiae* simillima.

16. **Botryodiplodia? loculata** (Mont.) Sacc. *Diplodia loculata* Mont. 2122 Fl. Chil., VII. p. 483, t. 9, f. 10 et Syll. n. 945. — Peritheciis gregariis globosis cortice innatis prominulis (varioloideis) epidermide cinctis atris, in loculamenta divisis albis, ostiolo obsoleto; sporulis oblongis breviter stipitatis, sero septatis.

Hab. in ramis emortuis, Chile (BERTERO).

REPERTORIUM
SPHÆRIOIDEARUM PHÆODIDYMARUM
 SECUNDUM MATRICES

Obs. B. indicat *Botryodiplodia*. — C. *Chætodiplodia*. — D. *Diplodia*. —
 De. *Diplodiella*. — M. *Macrodiplodia*.

N. 1825 — 1999 citantur 825 — 999
 N. 2001 — 2122 citantur 1 — 122

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| <p>Abies — D. 948. 995. 998. — De. 104.
 Acacia — D. 863. 864. 865. 986. 990.
 991. — De. 102.
 Acer — D. 834. 835. 836. 986. 2000.
 Aconitum — D. 61.
 Æsculus — D. 837.
 Agave — D. 71.
 Ailanthus — D. 844. 946. — B. 111.
 112.
 Albizzia — D. 862.
 Alnus — D. 977. 978.
 Althæa — D. 41.
 Amelanchier — D. 899.
 Amorpha — D. 872.
 Amygdalus — D. 890.
 Andropogon — D. 88.
 Androsæmum — D. 43.
 Anona — D. 825.
 Araucaria — D. 984. 986. 993.
 Arauja — De. 106.
 Arbutus — D. 924. 25.
 Aretostaphylos — D. 28.
 Artemisia — D. 53.</p> | <p>Arundo — D. 84. 85.
 Asclepias — D. 38.
 Aucuba — D. 915. 7.

 Berberis — D. 826. 983.
 Betula — D. 876. — B. 115.
 Bignonia — D. 933.
 Boehmeria — D. 64.
 Broussonetia — D. 955. — De. 100.
 Buxus — D. 942. 943. 6.

 Calamus — D. 81.
 Calycantus — D. 902.
 Carex — D. 82.
 Carica — D. 952.
 Carpinus — D. 966. 986.
 Cassia — D. 871.
 Cassinopsis — D. 847.
 Castanea — D. 968.
 Celastrus — B. 117.
 Celtis — D. 944. 945.
 Cercis — D. 866.
 Chamærops — D. 76. 80.</p> |
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- Chenopodium — C. 91.
 Chimonanthus — D. 901.
 Chionanthus — D. 931.
 Citrus — D. 832. 833. 14.
 Clematis — D. 56. 57.
 Cocos — D. 77. 78. 79.
 Cornus — D. 914.
 Corylus — D. 967. 986. 10.
 Cratægus — D. 887.
 Cupressus — D. 982. 983.
 Cydonia — D. 888.
 Cynoglossum — D. 50.
 Cytisus — D. 867. 868. 954. 992.

 Daphne — B. 108.
 Dasylirion — D. 83.
 Dianthus — D. 66.
 Dipterix — D. 65.
 Doniophytum — D. 52.
 Dracæna — D. 70.

 Edgworthia — D. 933.
 Elæagnus — D. 941.
 Embryopteris — D. 12.
 Eriobotrya — D. 17.
 Evonymus — D. 846. 3.
 Eucalyptus — D. 906. 907. 908. 986.
 Euphorbia — D. 63.

 Fagus — D. 969.
 Ferula — D. 66.
 Ficus — D. 948. 949. 953.
 Fœniculum — D. 32. 33.
 Fraxinus — D. 925. 986. — B. 110.
 120.

 Garrya — D. 940.
 Georgina — D. 51.
 Gleditschia — D. 858. 949.
 Gossypium — D. 39. 65. — De. 105.

 Hedera — D. 913. 4. 65.
 Hibiscus — D. 827. 828.
 Humulus — D. 36.
 Hymenæa — D. 65.
 Hypericum — D. 42.
 Jasminum — D. 926.

 Ilex — D. 848. 2.
 Incarvillea — D. 935.
 Juglans — D. 962. 963. — De. 100. —
 B. 107. 109.
 Juniperus — D. 979. 981. 994.

 Kœlreuteria — D. 838.
 Kerria — D. 878.

 Lactuca — D. 66.
 Lagerstrœmia — D. 903.
 Lappa — D. 66.
 Larix — C. 93. 94.
 Laurus — D. 937. 946. 26.
 Ligustrum — D. 929. 930.
 Lilium — D. 66.
 Linaria — D. 34.
 Lonicera — D. 916. 917. 918. 919.
 Lupinus — C. 58.
 Lycium — D. 46. 47.

 Maclura — D. 950. 951.
 Magnolia — D. 22. 23. 24.
 Mahonia — D. 13.
 Marsdenia — D. 37.
 Medicago — D. 59.
 Melia — 986.
 Menispermum — D. 35.
 Mentha — D. 66.
 Moringa — B. 119.
 Morus — D. 954. 956. 957. 958.
 Musa — D. 74.
 Myginda — D. 8.

 Nerium — D. 932. 5.

 Olea — D. 927.
 Opuntia — D. 910.

 Paliurus — D. 852.
 Passiflora — D. 60.
 Paulownia — D. 936.
 Persica — D. 889.
 Phœnix — D. 75. 76. 80.
 Phoradendron — D. 985.
 Photinia — D. 15.
 Phragmites — D. 85.

- Pinus — D. 984. 993. 995. 998. 999.
— De. 96.
- Pirus — D. 891. 892. 993. 894. 21. —
B. 122.
- Pittosporum — D. 959. — C. 95.
- Platanus — D. 916. 959. 960. 961.
- Poinciana — D. 873.
- Populus — D. 964. 965. — De. 96.
- Prunus — D. 883. 884. 885. 886. 895.
986. 18. 19. 20.
- Pterocarpus — D. 860.
- Punica — D. 900.
- Quercus — D. 970. 971. 972. 973. 974.
975. 986. 11. — De. 99.
- Rhamnus — D. 849. 850.
- Rhododendron — D. 27.
- Rhus — D. 853. 854. 855. 856. 955. —
B. 118.
- Ribes — D. 911. 912.
- Ricinus — D. 62.
- Robinia — D. 861.
- Rosa — D. 874. 875. 876. 877. 16.
- Rubus — D. 879. 880. 881. 882.
- Ruscus — D. 69.
- Ruta — D. 48.
- Salix — D. 9. — De. 97. 98.
- Sambucus — D. 921. — C. 92.
- Sarothamnus — D. 870.
- Sassafras — De. 101.
- Secale — D. 86.
- Sedum — D. 49.
- Sida — D. 40.
- Smilax — D. 68.
- Solanum — D. 44. 45.
- Sophora — D. 859.
- Sorbus — B. 121.
- Spiræa — D. 896. 897. 55.
- Staphylea — D. 845.
- Symphoricarpos — D. 920.
- Syringa — D. 928.
- Tamarix — D. 904. 905.
- Tanacetum — D. 54.
- Taxus — D. 996.
- Tecoma — D. 934. — De. 103.
- Terminalia — D. 909.
- Thalictrum — D. 66.
- Thuja — D. 980. 997.
- Tilia — D. 829. 830. 831. — M. 89.
- Ulex — D. 869.
- Ulmus — D. 946. 947. — M. 90.
- Vaccinium — D. 986.
- Viburnum — D. 922. 923. 1.
- Vitis — D. 839. 840. 841. 842. 843.
- Wistaria — D. 857.
- Yucca — D. 72. 73.
- Zea — D. 87.
- Zizyphus — D. 851.

Sect. 1. Hyalodidymæ Sacc.

Sporulæ ellipsoideæ, ovoideæ vel oblongæ, 1-septatæ, hyalinæ vel chlorinæ.

Clavis analytica generum.

§ Perithecia non rostrata.

† Perithecia areolis decoloratis plerumque innata, h. e. maculicola.

Ascochyta. Perithecia lenticularia, poro pertusa, minuta, plerumque phyllogena; sporulæ muticæ.

407 *Robillarda*. Perithecia *Ascochytae*; sporulæ apice longe setigeræ.

†† Perithecia non maculicola.

A) Basidia (ubi adsunt) monospora.

408 *Actinonema*. Perithecia subiculo radiante arachnoideo adnata, phyllogena; sporulæ in subg. *Asteromidio* 2-pluriseptatæ.

410 *Darluka*. Perithecia subiculo destituta, sæpius uredinicola; sporulæ utrinque mucoso-apiculatæ.

411 *Diplodina*. Perithecia subiculo destituta, ramicola; sporulæ muticæ.

B) Basidia pleuro-pleiospora.

413 *Cystotricha*. Perithecia subhysterioideo-dehiscentia; sporulæ in basidiis bacillaribus articulatis pleurogenæ.

§§ Perithecia rostellata.

414 *Rhynchophoma*. Perithecia erumpentia vel subsuperficialia.

ASCOCHYTA Lib. Exs. p. minore parte, Sacc. Mich. I. p. 161 (Etym. *ascos* uter, et *chylos*, a *cheo* effundo, h. e. perithecium *sporulas* effundens). — Perithecia in partibus plerumque decoloratis foliorum vel ramulorum innata, membranacea, poro centrali pertusa, globoso-lenticularia. Sporulæ ovoideæ vel oblongæ, 1-septatæ, hyalinæ vel chlorinæ. — Nonnullæ species ab auctoribus sub *Ascochytae* titulo venditatæ, quoad fructificationem vero indescriptæ, utpote quæ ad *Septoriæ* vel *Phyllostictæ* formas facile pertinentes, hic penitus omittuntur.

I. In foliis Dicotyledonearum lignosarum.

1. **Ascochyta Magnoliæ** Thüm. Contr. F. Litor. n. 342. — Peritheciis 2123 epiphyllis, sparsis vel subsolitariis, emersis, subhemisphæricis, epi-

dermide tectis, parvulis, nigris in maculis parvis arescendo candidantibus, plerumque sinuosis, cito laceratis et elabentibus; sporulis numerosis, ellipsoideis, utrinque angustato-rotundatis, medio septatis sed non constrictis, rectis, hyalinis, 7-8 = 3.

Hab. ad folia emortua prostrata Magnoliæ grandifloræ, Monastero prope Aquileja in Italia bor.

2. **Aschochyta australis** Speg. F. Arg. Pug. II. n. 122. — Maculis 2124 epiphyllis, latis, 3-10 mill. diam., orbiculari-diformibus, arescentibus, griseo-fuscis, zona aurantio-fuliginea cinctis; peritheciis minutis, 90-100 μ . diam., lenticularibus, innatis; ostiolo parvulo perforatis, sporulis ellipticis, medio 1-septatis, subconstrictis, hyalinis, 8-10 = 3-3½.

Hab. in foliis Berberidis glaucæ in horto Collegii Argentinii Buenos-Aires in Argentina.

3. **Aschochyta Emeri** Sacc. Mich. I. p. 163. — Maculis sæpius marginalibus, arescendo sordide albis, rufo-cinctis; peritheciis sparsis amphigenis, punctiformibus, lenticularibus, 110-120 μ . diam., pertusis; contextu minute parenchymatico fuligineo; sporulis oblongo-ellipsoideis, 9-15 = 3-4, utrinque rotundatis, 1-septatis, leniter constrictis, hyalinis.

Hab. in foliis Coronillæ Emeri in silva Montello Italiæ borealis.

4. **Aschochyta Siliquastri** Passer. Hedw. 1878, p. 172. — Peritheciis 2126 sparsis, exiguis, epidermidem minute pustulatim sublevantibus, membranaceis, fuscis; sporulis parvulis, oblongo-ellipticis, medio septatis, vix constrictis, hyalinis.

Hab. in leguminibus adhuc pendulis Cercidis Siliquastri, Parma in Italia.

5. **Aschochyta leguminum** Sacc. Mich. I. p. 530. — Peritheciis gregariis subcutaneo-erumpentibus, lenticularibus, 120-130 μ . diam., late pertusis; contextu melleo-fuligineo; sporulis oblongis, utrinque obtusis, constricto-1-septatis, 11-15 = 4, perfecte hyalinis.

Hab. in leguminibus Cytisi Laburni in Gallia (LETENDRE, ROUMEGUÈRE).

6. **Aschochyta Robiniæ** Sacc. et Sp. in Mich. I. pag. 163. — Maculis 2128 arescendo dealbatis, tenuiter fusco-marginatis; peritheciis sparsis punctiformibus, lenticularibus, 180 μ . diam., pertusis; sporulis oblongo-ellipsoideis, 10-15 = 5-6, 1-septatis, non constrictis, hyalinis.

Hab. in foliis Robiniæ Pseudacaciæ, Treviso et Gorizia

in Ital. bor., et in Germania. — An *Ascochyta Robiniæ* Lib. huc spectet, ignota fructificatione, latet.

7. **Ascochyta rosicola** Sacc. Mich. I. p. 164. — Maculis subcircu- 2129
laribus arescendo dealbatis, rufo-marginatis, epiphyllis: peritheciis punctiformibus, lenticularibus, pertusis; sporulis oblongis v. breve fusoides, 8-10 \approx 3, 1-septatis, non constrictis, utrinque 1-guttulatis, hyalinis.

Hab. in pagina superiore foliorum *Rosæ muscosæ*, Selva in Italia boreali.

8. **Ascochyta Cratægi** Fuck. Enum. Fung. Nap. n. 345. — Perithe- 2130
ciis minimis, densissime dispositis, atris, conicis, in maculis fuscis angularibus sitis; sporulis..... indescriptis.

Hab. in pag. inf. foliorum *Cratægi Oxycanthæ* in Rhénogovia. — «An vera *Ascochyta?*».

9. **Ascochyta piricola** Sacc. Fungi Ven. Ser. II. p. 311. — Maculis 2131
albo-griseis, nitidis; peritheciis lenticulari-punctiformibus latiuscule pertusis; sporulis oblongis, 1-septatis, 2-guttulatis, dilute olivaceis, 10 \approx 2.

Hab. in pag. sup. foliorum *Piri communis* in agro Veneto. — Spermogonium *Leptosphaeriæ Lucillæ*.

10. **Ascochyta chlorospora** Speg. Sacc. Mich. I. p. 483. — Perithe- 2132
ciis subepidermicis maculis griseis, rotundis innatis, lenticularibus, minutis, 80-90, ostiolo latiusculo pertusis; sporulis ellipticis, medio 1-septato-constrictis, dilute chlorinis, 10-12 \approx 3 $\frac{1}{2}$.

Hab. in foliis languidis *Pruni domesticæ*, Belluno in Italia boreali.

11. **Ascochyta Philadelphi** Sacc. et Sp. Mich. I. p. 165. — Maculis 2133
subcircularibus, arescendo ochraceis; peritheciis punctiformibus, 200 μ . diam., quandoque subconcentrice dispositis, pertusis; sporulis constricto-didymis, utrinque rotundatis, 8-11 \approx 4-4 $\frac{1}{2}$ hyalinis.

Hab. in foliis *Philadelphi coronarii*, Conegliano in Italia boreali (SPEGAZZINI).

12. **Ascochyta metulispora** B. et Br. Ann. N. H. n. 1730. — Ma- 2134
culis orbicularibus, brunneis; peritheciis minutis, pallidis; sporulis utrinque attenuatis, metuliformibus.

Hab. in foliis *Fraxini* in Scotia.

13. **Ascochyta Orni** Sacc. et Sp. Mich. I. p. 168. — Maculis nullis 2135
v. obsoletis; peritheciis amphigenis, globoso-lenticularibus, 200 μ . diam., pertusis, prominulis; sporulis ovato-fusoides, 10-11 \approx 2-2 $\frac{1}{2}$, 1-septatis, non v. rarius leniter constrictis, nubilose hyalinis.

Hab. in foliis Fraxini Orni, Conegliano in Italia boreali (SPEGAZZINI).

14. **Aschochyta Ligustri** Sacc. et Sp. Mich. I. p. 165. — Maculis ver- 2136
siformibus, arescendo subochraceis; peritheciis lenticularibus, punctiformibus, 200 μ . diam., olivaceo-fuscis; sporulis ovoideis v. oblongo-ellipsoideis, utrinque rotundatis, interdum curvulis, 1-septatis, ad septum leniter constrictis, 8-10 \approx 2-3, hyalinis.

Hab. in foliis Ligustri vulgaris, Costa (Vittorio) in Italia boreali (SPEGAZZINI).

15. **Aschochyta Viburni** (Roum.) Sacc. *Phyllosticta Viburni* Roum. 2137
F. Gall. n. 2036. — Maculis vagis, demum pallentibus, fusco-purpureo-marginatis; peritheciis epiphyllis, globoso-lenticularibus, pertusis; sporulis ellipsoideo-oblongis, utrinque rotundatis, 10-12 \approx 3,5-4, 1-septatis leniterque constrictis, hyalinis.

Hab. in foliis subvitis Viburni Opuli, Malmedy in finibus Galliae et Germaniae.

16. **Aschochyta Lantanæ** Sacc. Mich. I. p. 162. — Maculis subcircu- 2138
laribus sinuosisve arescendo dealbatis, anguste fusco-marginatis; peritheciis punctiformibus, epiphyllis sparsis, pertusis; sporulis anguste fuscoideis, 11 \approx 2, 1-septatis, non constrictis, hyalinis.

Hab. in foliis Viburni Lantanæ, Selva in Ital. bor. — Cum *Septoria Viburni* West. non comparanda.

17. **Aschochyta Tini** Sacc. Mich. I. p. 170. — Maculis vagis arescen- 2139
do ochraceis, margine subconcolori; peritheciis sparsis, paucis, punctiformibus, lenticularibus, 60-70 μ . diam., pertusis, contextu laxo tenui-celluloso, ferrugineo; sporulis fuscoideis, 6-10 \approx 3, 1-septatis, non v. vix constrictis, dilute olivaceis (rarissime 2-septatis).

Hab. in pag. sup. foliorum Viburni Tini, Selva, Villa Vicentina in Ital. bor. (SACC. BOLLE), Coimbra in Lusitania (FERREIRA).

18. **Aschochyta Sambuci** Sacc. Mich. I. p. 168. — Maculis vagis are- 2140
scendo candicantibus; peritheciis paucis, punctiformibus, pertusis; sporulis fuscoideis, 15-18 \approx 3-3½, 1-septatis, non constrictis, olivaceis.

Hab. in pag. sup. foliorum Sambuci nigrae, Selva in Italia boreali, et in Gallia.

19. **Aschochyta sarmenticia** Sacc. Mich. II. p. 110. — Maculis subro- 2141
tundo-angulosis, albicantibus, fusco-cinctis; peritheciis epiphyllis, sparsis, lenticularibus, velatis, 1/6 mill. diam., contextu laxo parenchymatico, ochraceo; sporulis oblongis clavulatisque, constricto-didymis, 20-25 \approx 8, nubiosis, hyalinis.

- Hab.* in foliis languidis *Loniceræ Caprifolii* pr. Rouen in Gallia (LETENDRE).
20. **Ascochyta tenerrima** Sacc. et Roum. in Mich. II. p. 622. — Maculis 2142 subcircularibus olivaceis, brunneo-marginatis; peritheciis epiphyllis, lenticularibus 130 μ . diam., pertusis, contextu areolato tenerrimo; sporulis oblongis, utrinque rotundatis, medio subconstrictis obsoleteque septatis, 9-11 \approx 3-4, hyalinis.
Hab. in foliis *Loniceræ tartaricæ* in Arduennis (LIBERT). — *Asc. sarmenticia* Sacc. ab hac valde differt.
21. **Ascochyta Periclymeni** Thüm. Contr. Myc. Lus. n. 606. — Peritheciis 2143 amphigenis, gregariis sed paucis, mediis, hemisphærico-emersis, aterrimis, in maculis exaridis plus minusve orbiculatis, in foliorum pagina superiore ochro-griseis, sordide fusco cinctis, in pagina inferiore sordide ochraceo-fuscis; sporulis cylindrico-ellipsoideis, utrinque obtusato-acutatis, bicellularibus, ad septa subconstrictis, rectis vel minime arcuatis, hyalinis, 10-11 \approx 3-4.
Hab. in foliis vivis et languidis *Loniceræ Periclymeni* pr. Coimbra in Lusitania (MOLLER).
22. **Ascochyta Weigeliæ** Sacc. et Sp. Mich. I. pag. 170. — Maculis 2144 epiphyllis, angulosis, arescendo candicantibus; peritheciis punctiformibus, lenticularibus, 100-150 μ . diam., pertusis, contextu minute parenchymatico, dilute fuligineo; sporulis oblongis, 12-14 \approx 3-4, 1-septatis, subconstrictis, minute 4-guttulatis, chlorinis.
Hab. in foliis *Weigeliæ roseæ*, Conegliano in Italia bor. (SPEGAZZINI).
23. **Ascochyta Paliuri** Sacc. Mich. I. p. 166. — Maculis variis, latis, 2145 arescendo fusco-ochraceis, vix marginatis; peritheciis epiphyllis, sparsis, punctiformibus, initio epidermide velatis, lenticularibus, 100 μ . diam., latiuscule pertusis, laxe cellulosis, fuligineis; sporulis oblongis, utrinque obtuse rotundatis, 7-9 \approx 3-3½, 1-septatis, leniter constrictis, obsolete guttulatis, hyalinis.
Hab. in foliis *Paliuri aculeati*, Selva et Conegliano in Italia boreali.
24. **Ascochyta cornicola** Sacc. Mich. I. p. 169. — Maculis subcir- 2146 cularibus arescendo dealbatis rufo-cinctis; peritheciis punctiformibus, lenticularibus, 80 μ . diam., pertusis; sporulis oblongo-ellipsoideis, 7-10 \approx 3½-4, 1-septatis, non constrictis, dilute olivaceis.
Hab. in foliis *Corni sanguineæ*, Selva in Ital. bor.
25. **Ascochyta aucubicola** Winter. Cont. Myc. Lus. p. 795. — Peritheciis 2147 in macula arescendo-albida, fusco-cincta, irregulari, usque

15 μ . lata, epiphyllis, sparsis, lenticularibus, demum collabascen-
tibus, atris, 80-90 μ . diam.; sporulis oblongis, uniseptatis, non con-
strictis, hyalinis, cumulatis pallide fuscescentibus, 7-9 \approx 2,5.

Hab. in foliis vivis Aucubæ japonicæ in hortis Coimbra
in Lusitania.

26. **Ascochyta Aucubæ** Sacc. et Sp. Mich. I. p. 167. — Maculis nul- 2148
lis; peritheciis gregariis subgloboso-lenticularibus, initio tectis, 250
 μ . diam., prominulis, pertusis, contextu parenchymatico fuligineo;
sporulis fusoido-oblongis, 8-12 \approx 2-2 $\frac{1}{2}$, 1-septatis, non v. vix con-
strictis, nubilose hyalinis.

Hab. in foliis dejectis Aucubæ japonicæ, Conegliano in
Ital. bor. (SPEGAZZINI). — Var. β . **Brunaudiana** Sacc. F. Gall. n. 2174:
maculis expallentibus, lineâ nigra circumscriptis; peritheciis 60-70
 μ . diam.; sporulis 8 \approx 2,5, subhyalinis, 1-septatis, non constrictis.
In foliis Aucubæ japonicæ, Saintes in Gallia (BRUNAUD).

27. **Ascochyta maculans** Fuck. Symb. Myc. p. 386. — Peritheciis 2149
minutis, conicis, in acervulos minutos aggregatis, atris, in macu-
la fusca.

Hab. in foliis vivis Hederæ Helicis, Eberbach in Germania,
et Treviso in Ital. bor. — Sporulæ ignotæ, hinc dubia species.

28. **Ascochyta ampelina** Sacc. Mich. I. p. 158. — Maculis vagis an- 2150
gulosis arescendo candicantibus, fusco-marginatis, epiphyllis; pe-
ritheciis sparsis punctiformibus lenticularibus, 70 μ . diam., pertu-
sis; sporulis ex oblongo fusoidis, 10 \approx 3, 1-septatis non constri-
ctis, dilute olivaceis (rarissime, 12-15 \approx 3-3 $\frac{1}{2}$, 2-3-septatis).

Hab. in foliis Vitis viniferæ, Selva. — Var. β . **cladogena**:
peritheciis majoribus, 150-200 μ . diam.; sporulis quoque paullo
longioribus, 15 \approx 3. In ejusdem sarmentis vivis, Conegliano in Ital.
bor. (SPEGAZZINI).

29. **Ascochyta Ellisii** Thüm. Pilze des Weinstockes p. 190. — Pe- 2151
ritheciis hypophyllis, dense gregariis, sine ordine dispositis, di-
stinctis, prominulis, conico-hemisphæricis, liberis, opaco-nigris in
maculis orbicularibus, numerosis, subparvis, limitatis sed non cin-
ctis, dilute fuscis, subexaridis; sporulis globosis vel ovatis vel el-
lipsoideis, simplicibus (semper?) episporio crasso, levi, hyalinis,
utrinque rotundatis, numerosis, 6-8 \approx 5-6.

Hab. in foliis vivis Vitis Labruscæ, New Jersey in Amer.
septentr. (ELLIS). — Si sporulæ jugiter continuæ, ad *Phyllostictam*
referenda species.

30. **Ascochyta bombycina** Penz. et Sacc. F. Agrum. Contr. II. p. 17. — 2152

Foliicola, maculis foliorum vivorum flavescentibus insidens; peritheciis minutissimis, 60-70 μ . diam., sphæroideis, haud compressis, pariete brunneo, tenui, contextu parenchymatico; sporulis breviter cylindricis, utrinque obtusis, rotundatis, uniseptatis, medio paululum constrictis, hyalinulis, 8-9,5 \times 3-4,5.

Hab. in foliis languentibus Limoniæ australis, Mortola apud Ventimiglia in Italia bor.

31. **Ascochyta Hesperidearum** Penz. in Sacc. Mich. II. p. 445 et F. 2153 it. n. 1184. — Maculis nullis; peritheciis amphigenis, sparsis vel gregariis, subglobosis, nigris, erumpentibus, 180-200 μ . diam., apice pertusis; sporulis oblongo-fusoideis, hyalinis, 1-septatis, medio haud constrictis, 11-15 \times 3-4.

Hab. in foliis languidis Limoniæ australis, Cattajo in Ital. bor. (PENZIG), et in foliis Citri Limonum, Licata in Ital. merid. (BELTRANI), sociis *Beltrania rhombica*, *Volutella fusarioide* et *Septoria sicula*.

32. **Ascochyta Citri** Penz. in Sacc. Mich. II. p. 445 et in F. ital. t. 2154 1183. — Maculis versiformibus candicantibus, linea atro-rufa circumscriptis; peritheciis numerosis, sparsis, punctiformibus, 150-180 μ . diam., brunneis, contextu filamentoso; sporulis ellipticis, continuis vel 1-septatis, medio non constrictis, 6,5-9 \times 3-3,5, pallide brunneolis.

Hab. in foliis Citri Limonum Risso, Cattajo, Padova (PENZIG), S. Terenzo (GIBELLI) in Italia.

33. **Ascochyta Lorentzii** Sp. Fungi Arg. Pug. III. n. 124. — Maculis 2155 epiphyllis, orbicularibus, 2-3 mill. diam., cinereis, determinatis, zona cinereo-fuscescente, latiuscula cinctis; peritheciis centralibus, paucis, minutis, 90-100 μ . d., lenticularibus, parenchymati innatis, tenui-membranaceis, ostiolo parvulo pertusis, contextu parenchymatico, olivaceo-fuligineo; sporulis ellipticis, utrinque obtusiusculis, medio 1-septatis, non v. vix constrictis, 10-12 \times 4-4,5, hyalinis.

Hab. ad folia viva Cnicothamni Lorentzii in dumetis de Tucuman Argentinæ.

34. **Ascochyta Paulowniæ** Sacc. et Brun. F. Gall. n. 2241. — Ma- 2156 culis epiphyllis variis, fusco-cinereis; peritheciis lenticularibus, pertusis, 90 μ . diam.; sporulis fusoideis, 14-18 \times 3, 1-septatis, vix constrictis, 4-guttulatis, dilute olivaceis.

Hab. in foliis Paulowniæ, Saintes in Gallia, sociâ *Phyllosticta Paulowniæ* Sacc. (BRUNAUD).

35. **Ascochyta Tweediana** Penz. et Sacc. F. Mort. n. 40, tav. V. fig. 22. 2157

— Maculis subnullis; peritheciis gregariis, hypodermicis, minutis, lenticularibus, contextu tenui parenchymatico nigro, 140–150 μ . diam.; sporulis oblonge ellipticis, utrinque rotundatis, loculis sæpe inæqualibus, ad septum haud constrictis, 6,5–8 \approx 3–3,5, dilute fuliginis.

Hab. in capsulis siccis Bignoniæ Tweedianaæ, Mortola apud Ventimiglia in Italia (O. PENZIG).

36. **Ascochyta Winteri** Sacc. *Ascochyta Tweediana* Winter Contr. 2158 Myc. Lus. n. 796, nec Sacc. et Penz. — Peritheciis in macula exarida, pallide grisea, late fusco-purpureo cincta, rotundata seu irregulari, 4–20 mill. lat., sparsis, epiphyllis, punctiformibus, poro pertusis, membranaceis, fusco-atris, 50–60 μ . lat.; sporulis oblongis seu bacillaribus, utrinque late rotundatis, medio vix vel parum constrictis, hyalinis, spurie uniseptatis, 5 \approx 1,5.

Hab. in foliis vivis Bignoniæ Tweedianaæ, Coimbra in Lusitania.

37. **Ascochyta Puiggarii** Speg. Fung. Arg. Pug. IV. n. 302. — Ma- 2159 culis latissimis, determinatis, fere totum folium occupantibus, superne candidis, inferne albo-pallescentibus; peritheciis epiphyllis, minutis, 70–80 μ . d., numerosissimis, dense sparsis, primo tectis, dein erumpentibus, subglobosis, atris, tenui-membranaceis, contextu sinuoso parenchymatico, olivaceo; sporulis ellipticis, utrinque obtuse rotundatis, medio 1-septatis, non constrictis, 7–8 \approx 3, dilute fusco-chlorinis.

Hab. ad folia viva Myrtaceæ cujusdam in Brasilia meridionali pr. Apiahy (Doct. J. PUIGGARI).

38. **Ascochyta Cherimoliæ** Thüm. Contr. Myc. Lusit. n. 607. — Pe- 2160 ritheciis amphigenis, pertusis, primo punctiformibus, postremo lenticularibus, gregariis, mediis, fusco-atris in maculis irregularibus arescendo albicantibus vel pallidissime ochraceo-albidis, mox dilaceratis, subtus dilute ochraceis, late fusco-purpureo cinctis; sporulis longe ellipsoideis vel cylindratis, utrinque subacutatis, rectis, medio plerumque septatis sed non constrictis, numerosissimis, hyalinis, 7 \approx 2–2,5.

Hab. ad folia viva Anonæ Cherimoliæ in horto botanico Coimbra in Lusitania.

39. **Ascochyta Unedonis** Sacc. Mich. I. p. 530. — Maculis plerum- 2161 que epiphyllis variis, arescendo cinerescentibus, rufo-cinctis; peritheciis gregariis, velatis, lenticularibus, 80 μ . diam. pertusis; sporulis oblongis, 1-septatis, non constrictis, 7–9 \approx 2½, olivaceis.

Hab. in foliis Arbuti Unedonis prope Saintes in Gallia (BRUNAUD).

40. **Ascochyta Elæagni** Sacc. Mich. II. p. 109. — Maculis epiphyllis 2162 marginalibus, ochraceo-marginatis; peritheciis punctiformi-lenticularibus, pertusis, 80-100 μ . diam., laxe melleo-cellulosis; sporulis fusoides, 8-10 \approx 3 $\frac{1}{2}$ -4, 1-septatis, dilute olivaceis.

Hab. in foliis Elæagni argenteæ, Saintes in Gallia (BRUNAUD).

41. **Ascochyta Oreodaphnes** Sacc. Mich. II. p. 538. — Maculis amphigenis ovato-oblongis, expallentibus, atro-cinctis; peritheciis epiphyllis, $\frac{1}{6}$ mill. diam., globoso-depressis, epidermide denique fissa velatis; sporulis oblongis, apice obtusioribus, constricto-1-septatis, 2-4-guttatis, semper hyalinis, 15-16 \approx 7-8.

Hab. in foliis languidis Oreodaphnes fœtentis in horto botanico, Padova in Italia boreali.

42. **Ascochyta Cephalanthi** Ell. et Everhart, in litt. — Maculis orbicularibus, 3-5 mill. diam., brunneo-albescentibus, margine angusto, subelevato; peritheciis epiphyllis, paucis irregulariter distributis, depresso-hemisphæricis, parenchymate folii innatis, 60-75 μ . diam.; sporulis vel anguste ellipticis vel ovato-oblongis, pallide brunneis, uniseptatis, 7-9 \approx 2,5-3.

Hab. in foliis Cephalanthi occidentalis, Illinois in Amer. bor. (EARLE).

43. **Ascochyta Calycanthi** Sacc. et Sp. Mich. I. p. 162. — Maculis arescendo albicantibus, variis; peritheciis gregariis lenticularibus, punctiformibus, 200 μ . diam., pertusis, atris; sporulis oblongis v. oblongo-ellipsoideis, 11-14 \approx 2 $\frac{1}{2}$ -3, utrinque obtusiusculis, 1-septatis, non constrictis, hyalinis v. nubilosis.

Hab. in foliis Calycanthi floridi, Conegliano in Italia boreali (SPEGAZZINI).

44. **Ascochyta Oleandri** Sacc. et Sp. Mich. I. p. 162. — Maculis albis fusco-cinctis; peritheciis sparsis amphigenis, lenticularibus, 200 μ . diam., pertusis, dilute fuliginis; sporulis fusoides-oblongis, 11-15 \approx 2-2 $\frac{1}{2}$, 1-septatis, non v. vix constrictis nubilosis, hyalinis.

Hab. in foliis Nerii Oleandri, Conegliano in Italia boreali (SPEGAZZINI), Coimbra in Lusitania (MOLLER).

45. **Ascochyta Garryæ** Sacc. Mich. II. p. 108. — Maculis epiphyllis variis, atro-cinctis; peritheciis paucis lenticularibus, 100-120 μ . diam.; sporulis fusoides, 8-10 \approx 3, chlorinis, constricto-1-septatis.

Hab. in foliis Garryæ ellipticæ, Saintes in Gallia (BRUNAUD).

46. **Ascochyta ulmella** Sacc. Mich. I. p. 169. — Maculis hypophyllis 2168
arescendo expallentibus, margine concolori; peritheciis sparsis, pau-
cis, punctiformibus, lenticularibus, pertusis; sporulis breve fusoi-
deis, rectis, 8-10 \approx 3, 1-septatis, non v. vix constrictis, dilute oli-
vaceis.

Hab. in foliis Ulmi campestris, Selva in Italia boreali.

47. **Ascochyta buxina** Sacc. Mich. I. p. 169. — Maculis indetermina- 2169
tis arescendo expallentibus; peritheciis sparsis, punctiformibus; spo-
rulis ovato-fusoideis 8 \approx 2 $\frac{1}{2}$, 1-septatis, non constrictis, dilute oli-
vaceis.

Hab. in foliis Buxi sempervirentis, Selva in Ital. bor.

48. **Ascochyta limbalis** Sacc. Mich. I. p. 161. — Maculis vagis, sæpe 2170
marginalibus, arescendo candidis, zona nigrescente cinctis; perithe-
ciis lenticularibus, pertusis; sporulis oblongo-cylindræis, 15 \approx 2,
utrinque obtusiusculis, 1-septatis, vix constrictis, 4-guttulatis, hya-
linis.

Hab. in pag. super. foliorum Buxi sempervirentis, Selva
in Ital. bor., Coimbra in Lusitania. — Huc *Depazea buxicola* Sacc.
Myc. Ven. p. 193. non Friesii, quæ *Phyllosticta limbalis* Pers.

49. **Ascochyta carpinea** Sacc. Mich. I. p. 170. — Maculis subcircu- 2171
laribus sinuosive, arescendo ochraceis, margine subconcolori; pe-
ritheciis sparsis, raris, punctiformibus, lenticularibus, 100 μ . diam.,
pertusis; sporulis oblongo-fusoideis, 10-11 \approx 2 $\frac{1}{2}$, 1-septatis, non
constrictis, dilute olivaceis.

Hab. in pag. sup. foliorum Carpini Betuli, Covolo in Ita-
lia boreali.

50. **Ascochyta Coryli** Sacc; et Sp. Mich. I. p. 162. — Maculis variis 2172
v. subcircularibus, arescendo albicantibus; peritheciis lenticulari-
bus, 200 μ . diam., pertusis, fuscis; sporulis oblongo-ellipsoideis v.
subcylindræis, 10 \approx 2 $\frac{1}{2}$, 1-septatis, non constrictis, rectis curvu-
lisve, hyalinis.

Hab. in foliis Coryli Avellanæ, Costa pr. Vittorio in Ita-
lia boreali (SPEGAZZINI).

51. **Ascochyta Quercus** Sacc. et Sp. in Mich. I. p. 162. — Maculis 2173
versiformibus arescendo albicantibus; peritheciis sublenticularibus,
punctiformibus, 80-90 μ . diam.; sporulis oblongo-ellipsoideis, 7-
12 \approx 3-4 $\frac{1}{2}$, utrinque obtusis, 1-septatis, ad septum plus minusve
constrictis, hyalinis.

Hab. in foliis quercinis, Susegana in Ital. bor. (SPEGAZZINI).

52. **Ascochyta Quercuum** (Cooke) Sacc. *Sphaerellopsis quercuum* 2174

Cooke in Grev. XII, p. 23. — Hypophylla, sparsa; peritheciis subglobosis, subsuperficialibus, minimis, 150 μ . diam., fuscis; sporulis lanceolatis, uniseptatis, hyalinis 16 = 4.

Hab. in foliis *Quercus virentis*, Darien in Georgia.

53. **Ascochyta? Caricæ** Rabenh. in Bot. Zeit. 1851, p. 455. — Ma- 2175
culis rufo-brunneis; peritheciis innatis, gelatina aureo-coccinea; sporulis clavato-polymorphis granulis et guttulis oleosis rotundis farctis.

Hab. in foliis *Fici Caricæ*, Pola in Istria (BIASOLETTO).

54. **Ascochyta populina** Sacc. Mich. I. p. 168. — Maculis variis, an- 2176
gulosis, arecendo candidis, atro-cinctis; peritheciis punctiformibus, sparsis; sporulis cylindraceo-fusoideis, 10-11 = 1½-2, rectis, 1-septatis, non v. vix constrictis, e hyalino olivaceis.

Hab. in pag. sup. foliorum *Populi nigræ*, Selva in Ital. bor.

55. **Ascochyta Tremulæ** Thüm. Fungi Austr. n. 82. — Peritheciis 2177
hypophyllis, subdensis, minutissimis, punctiformibus, nigris, globosis, semiimmersis in maculis plus minusve orbiculatis, exarido-griseis, parvis, anguste et distincte fusco-cinctis, in pagina superiore albo-griseis; sporulis cylindricis vel longe ellipsoideis, utrinque subrotundatis, medio uniseptatis sed non constrictis, achrois, 9-10 = 3.

Hab. in foliis vivis *Populi Tremulæ*, Krems in Austr. inf. (DE THÜMEN).

56. **Ascochyta Martianoffiana** Thüm. Pilzfl. Sibir. n. 616. — Perithe- 2178
ciis magnis, subsolitariis, emersis, conoideis, aterrimis, epiphyllis in maculis plus minusve orbicularibus, ochraceo-griseis, late fusco-marginatis, subtus fusco-griseis; sporulis bicellularibus, inæquali-ovoideis vel fere subreniformibus, cellula una semper majore quam altera, utrinque subacutatis, pallidissime fuligineo-cinereis, 10 = 4.

Hab. in foliis vivis *Salicis pyrolæfoliæ*, Samodourowka in Sibiria.

II. In ramulis Dicotyledonearum lignosarum.

57. **Ascochyta ventricosa** Penz. et Sacc. Funghi Mort. n. 41. — Pe- 2179
ritheciis laxè gregariis, minutis, innato-erumpentibus, sphæroideolenticularibus, depressis, contextu tenui membranaceo, brunneo, 130-140 μ . diam.; sporulis breviter ellipticis vel ovoideis, ventricosis, septo medio valde manifesto, ad septum haud constrictis, utrinque rotundatis, dilute brunneis, 7-9 = 4,5-6.

Hab. in ramulis siccis *Acaciæ* sp. (sociâ *Diplodia Acaciæ*

Penz. et Sacc.) et Passifloræ hybridæ, Mortola in Ital. bor.
(O. PENZIG).

58. **Ascochyta Laburni** Sacc. Mich. I. 530. — Peritheciis gregariis, 2180
epidermide velatis, 120 μ . diam., subglobosis, pertusis contextu fu-
ligineo; sporulis cylindræis, utrinque rotundatis, 10-12 \approx 2, 1-
septatis, non constrictis, viridulis.

Hab. in ramulis Cytisi Laburni, Rouen in Gallia (LE-
TENDRE).

59. **Ascochyta densiuscula** Sacc. et Malbr. Sacc. Mich. II. p. 621. — 2181
Peritheciis dense gregariis, subcutaneis, punctiformibus, nigris; spo-
rulis anguste oblongis, utrinque obtusiusculis, medio septatis leni-
terque constrictis, 9-12 \approx 3,5, hyalinis.

Hab. in ramulis Sarothamni scoparii, Rouen in Gallia
(MALBRANCHE).

60. **Ascochyta berberidina** Sacc. Mich. I. p. 530. — Peritheciis spar- 2182
sis, epidermide velatis, 100 μ . diam., lentiformibus, pertusis; spo-
rulis fusoides, 1-septatis, non constrictis, 8-11 \approx 2 $\frac{1}{2}$, luteolis.

Hab. in ramulis Berberidis vulgaris, Rouen in Gallia
(LETENDRE).

61. **Ascochyta rufo-maculans** Berk. Outl. p. 320. — Maculis orbicu- 2183
laribus rufo-brunneis; peritheciis emersis, subliberis concoloribus;
sporulis oblongis, continuis («semper?»), medio constrictis, 15-20
 μ . longis.

Hab. in racemis Vitis viniferæ in Britannia.

62. **Ascochyta Tecomæ** Sacc. Mich. I. p. 168. — Maculis indetermi- 2184
natis candicantibus, cladogenis; peritheciis gregariis punctiformi-
bus globoso-lenticularibus, 90-100 μ . diam., pertusis, initio epider-
mide velatis, dein erumpentibus; sporulis breve fusoides, 8-10 \approx
2 $\frac{1}{2}$ -3, rectis curvulisve, 1-septatis, non constrictis dilute olivaceis.

Hab. in ramulis nondum emortuis Tecomæ radicans, Co-
negliano in Italia boreali (SPEGAZZINI).

63. **Ascochyta scandens** Sacc. Mich. I. p. 530. — Peritheciis dense 2185
gregariis, globoso-lenticularibus, subcutaneo-erumpentibus, 70-80
 μ . diam., pertusis, contextu parenchymatico circa ostiolum multo
densiore; sporulis fusoides, 10 \approx 4, 1-septatis, non constrictis, chlo-
rino-hyalinis.

Hab. in sarmentis Hederæ Helicis, Saintes in Gallia (BRU-
NAUD).

64. **Ascochyta carthagenensis** Sacc. Mich. II. p. 144. — Maculis cla- 2186
dogenis vagis, albescentibus; peritheciis gregariis, lenticularibus,

initio velatis, $\frac{1}{10}$ mill. diam., pertusis; sporulis oblongis, utrinque obtusiusculis, $7-9 \approx 3-3\frac{1}{2}$, constricto-1-septatis, chlorinis.

Hab. in ramulis Manioth carthagenensis in Carolina (RAVENEL).

III. In Dicotyledoneis herbaceis.

65. **Ascochyta patagonica** Sp. F. Arg. Pug. II. n. 123. — Peritheciis 2187 sparsis, subepidermicis, prominulis, minutis, 80-90 μ . d., lenticulari-hemisphæricis, ostiolo parvulo impresso pertusis, membranaceis; contextu parenchymatico, atro-fuligineo; sporulis cylindraceo-ellipticis, primo granuloso-farctis, continuis, dein 1-septatis, non v. vix constrictis, loculis non v. uniguttulatis, hyalinis, $8-10 \approx 3-4$.

Hab. in petiolis putrescentibus Anemonis sphænophyllæ, prope el Rio Negro in Patagonia.

66. **Ascochyta clematidina** Thüm. Pilzfl. Sibir. n. 619. — Peritheciis 2188 epiphyllis, submagnis, emersis, dense gregariis, hemisphæricis, basi epidermide late cinctis, nigris in maculis nullis v. obsoletis, ochraceis, irregularibus, subzonatis, vix arescentibus; sporulis late fusoides vel subellipsoideis, utrinque obtusatis, medio septatis, dilute fuligineo-griseis, $16-18 \approx 6-7$.

Hab. in foliis vivis Clematidis glaucæ, Minussinsk in Sibiria.

67. **Ascochyta Hellebori** Sacc. F. Ven. Ser. II. sub n. 28 pag. 310, 2189 Mich. I. p. 169. — Maculis epiphyllis mediocribus, angulosis, albicantibus, atro-limbatis; peritheciis sparsis, punctiformi-lenticularibus, poro latiusculo apertis; sporulis breve fusoides, $8 \approx 1\frac{3}{4}-2$, 1-septatis, viridulis.

Hab. in foliis languidis Hellebori viridis in Italia boreali, socio statu ascophoro: *Leptosphæria Lathonia*.

68. **Ascochyta Trollii** Thüm. Pilzfl. Sibir. n. 618. — Peritheciis epi- 2190 phyllis, sparsis, minutissimis, semiimmersis, punctiformi-conicis, nigris in maculis irregularibus, arescendo albicantibus, amphigenis, fusco-nigro marginatis; sporulis ellipsoideis, utrinque obtusiusculis, uniseptatis, $16 \approx 7$, hyalinis, episporio subcrasso.

Hab. in foliis vivis Trollii asiatici in subalpinis pr. fluvium Baraksan in Sibiria.

69. **Ascochyta Aquilegiæ** (Roum. et Pat.) Sacc. *Phyllosticta Aquile-* 2191 *giæ* Roum. et Pat. Rev. Myc. V. p. 28. — Maculis epiphyllis, cinereis, rotundatis vel ovalibus, $0,5-1 \mu$. diam., brunneo-cinctis marginalibus; peritheciis numerosis, centralibus, ovoidalibus, brun-

neis, centro pertusis et depressis; sporulis brunneis, bilocularibus, loculis inæqualibus, subinde curvatis.

Hab. in foliis Aquilegiæ vulgaris, Malmedy in Arduennis.

70. **Ascochyta Nymphææ** Passer. Hedw. 1877, p. 120. — Peritheciis in maculis exaridis luteo-marginatis, immersis, vix pustulatum prominulis; sporulis oblongo-ellipticis, simplicibus, hyalinis.

Hab. in foliis Nymphææ albæ, Parma et Aquileja in Italia, et Nymphææ capensis, Coimbra in Lusitania. — Si sporulæ jugiter continuæ, ad *Phyllostictam* species referenda est.

71. **Ascochyta Violæ** Sacc. et Sp. Sacc. Mich. I. p. 163. — Maculis arescendo dealbatis, variis; peritheciis gregariis, globoso-lenticularibus, 180-200 μ . diam., pertusis, contextu parenchymatico, circa ostiolum condensato, fuligineo; sporulis breve fusoideis, 15-18 μ \times 3½-4, 1-septatis, non constrictis hyalinis.

Hab. in foliis Violæ odoratæ, Selva et Conegliano in Italia boreali.

72. **Ascochyta Armoraciæ** Fuck. Symb. myc. p. 388, *Septoria Armoraciæ* Oud. Aanwinsten fl. myc. v. Nederland. p. 5 (1875-76). — Peritheciis conicis, atris, in macula pallescente sparsis; sporulis oblongis, obtusis, 1-septatis.

Hab. in foliis Armoraciæ rusticanæ in Rhenogovia, Italia bor., Britannia et Hollandia.

73. **Ascochyta Brassicæ** Thüm. Contr. Myc. Lusit. n. 602. — Peritheciis densissime gregariis, epiphyllis, conicis, prominulis, mediis, fusco-atris in maculis sinuosis, non marginatis, sordide ochraceo-griseis; sporulis fusiformibus, rectis, utrinque acutatis, medio uni-septatis, bi-quadri grosse nucleatis, achrois, 15-16 μ \times 3-4.

Hab. in foliis vivis Brassicæ oleraceæ in Lusitania (MOLLER).

74. **Ascochyta pisicola** (Berk.) Sacc. *Depazea pisicola* Berk. in Currey on the fructif. of simple Sphæriæ p. 334. — Peritheciis minutis, nigris in maculis rotundis pallidis, marginatis, sæpe confluentibus; sporulis hyalinis, ellipticis, 1-septatis vel continuis, 10-13 μ . longis.

Hab. in fructibus (?) Pisi in Britannia. — «An diversa ab *Asc. Pisi* Lib.?»

75. **Ascochyta Pisi** Lib. Exs. n. 12. *Sphæria* (Depazea) *conca* Berk. Ann. N. H. n. 194, t. XI. f. 3, *Zythia rabiei* Pass., *Septoria leguminis* β . *Pisi* Kickx, *Ascospora Pisi* Fuck. — Maculis subrotundis, luteis, brunneo-marginatis; peritheciis centralibus

brunneis, ostiolo rotundo pertusis, contextu peritheciis e cellulis angulosis 5-7 μ . diam.; cirris brevibus crassis, demum confluentibus, fusco-rubellis, demum expallescens; sporulis oblongis, uni-septatis, medio constrictis, 14-16 \approx 4-6, nucleolatis, hyalinis.

Hab. in foliis caulibusque leguminum Phaseoli, Pisi, Ciceris in Belgio, Britannia, Italia, Lusitania et Germania.

76. **Ascochyta Phaseolorum** Sacc. Mich. I. p. 164. — Maculis indeter- 2198
minatis, arescendo ochraceis; peritheciis epiphyllis globoso-lenticularibus, 100 μ . diam., pertusis; sporulis oblongis constricto-1-septatis, 10 \approx 3, 2-guttulatis, hyalinis.

Hab. in foliis Phaseoli vulgaris, Selva in Ital. bor.

77. **Ascochyta Orobi** Sacc. Mich. I. pag. 161. — Maculis arescendo 2199
dealbatis, sinuosis, fusco-cinctis; peritheciis punctiformibus, lenticularibus, 100 μ . diam., late pertusis; sporulis constricto-bilocularibus, oblongis, utrinque obtusis, 15-16 \approx 4 $\frac{1}{2}$ -6, guttulatis, hyalinis.

Hab. in foliis Orobi verni et lathyroidis in silva Montello Ital. bor. et prope Minussinsk in Sibiria. — Huc spectat *Septoria Orobi* Pass. in Rabh. F. E. n. 2256 (Aprili 1877).

78. **Ascochyta Vulnerariæ** Fuck. Symb. myc. p. 387. — Peritheciis 2200
hemisphæricis, aterrimis, in macula purpurascens.

Hab. in foliis radicalibus adhuc vivis Anthyllidis Vulnerariæ in Rhenogovia et Lusitania. — «An vera *Ascochyta*?»

79. **Ascochyta Saponariæ** Fuck. Symb. myc. p. 388. — Peritheciis 2201
numerosissimis, in macula fusca, minutis, subconicis, atris.

Hab. in pagina sup. foliorum viventium Saponariæ officialis, quam interdum omnino occupat, in Rhenogovia. — «An hujus loci?»

80. **Ascochyta Rhynchosia** (Thüm.) Sacc. *Depazea Rhynchosia* Thüm. 2202
Fung. Am. trig. Sp. n. 20 et M. U. n. 596. — Peritheciis minimis, sparsis, epiphyllis, immersis, globosis, atris in maculis brunneo-fuscis, obscure marginatis, irregularibus; sporulis minimis, fusiformibus, uniseptatis, utrinque acutatis, hyalinis, 9 \approx 3.

Hab. in foliis vivis Rhynchosia reniformis, Aiken in Carolina australi.

81. **Ascochyta Dianthi** (A. S.) Berk. Outl. p. 320, *Sphæria* (Depa- 2203
zea) *Dianthi* Alb. et Schw. Lus. t. VI. f. 2. — Peritheciis irregularibus, conglomeratis; sporulis spathulatis, medio septatis, granulosis.

Hab. in foliis vivis Dianthi in Britannia et Germania.

82. **Ascochyta Potentillarum** Sacc. Mich. I. p. 170. — Maculis versi- 2204

formibus epiphyllis arescendo candicantibus, atro-sanguineo-marginatis; peritheciis punctiformibus, lenticularibus; sporulis fusoido-cylindræis, utrinque obtusiusculis, $10 \approx 3$, 1-septatis, non constrictis, chlorinis.

Hab. in foliis *Potentillæ reptantis*, Selva in Ital. bor.

83. **Ascochyta Fragariæ** Sacc. Mich. I. p. 169. — Maculis arescendo 2205
dealbatis, atro-sanguineo-marginatis, subcircularibus; peritheciis e
globoso lenticularibus 100μ . diam., latiuscule pertusis; contextu
tenui parenchymatico subochraceo, circa porum conspicue incrassa-
to; sporulis oblongo-fusoides, rectis, $12-15 \approx 3-4$, 1-septatis, non
constrictis, dilute olivaceis.

Hab. in pag. sup. foliorum *Fragariæ vescæ* et *chiloënsis*, Selva in Italia boreali et Coimbra in Lusitania. — Affinis *Ascochyta ampelincæ* Sacc.

84. **Ascochyta Pallor** Berk. Outl. p. 320 et Ann. N. H. n. 193, t. XI. 2206
f. 2. — Maculis pallidis, subrotundis; peritheciis sparsis, immer-
sis, pallidis, epidermide ostiolis minutis perforata et circum ostio-
la leniter elevata et atrata; sporulis allantoides, leniter curvatis,
utrinque obtusis, hyalinis.

Hab. in ramulis vivis *Rubi Idæi* in Britannia. — « Si sporulæ jugiter continuæ, species ad *Phyllostictam* ducenda erit. »

85. **Ascochyta Feuilleauboisiana** Sacc. et Roum. Reliq. Lib. Ser. IV. 2207
n. 122. — Maculis arescendo albicantibus anguste atro-cinctis; pe-
ritheciis globoso-lenticularibus, perexiguis; sporulis oblongo-fu-
soides, obtusiusculis, 1-septatis, $18-20 \approx 2,5$, hyalinis, lenissime me-
dio constrictis.

Hab. in foliis *Ruborum* epiphylla in Arduennis (LIBERT).

86. **Ascochyta althæina** Sacc. et Bizz. Fung. Gall. n. 2240. — Maculis 2208
sordide brunneis, sæpe flavo-marginatis, subcircularibus; peritheciis
innatis, punctiformibus; sporulis oblongis, utrinque rotundatis, 1-
septatis, constrictulis, hyalinis, $7-10 \approx 3,5-4$.

Hab. in foliis languidis *Althææ officinalis*, Rouen in Gal-
lia (LETENDRE).

87. **Ascochyta obducens** Fuck. Symb. myc. p. 388. — Peritheciis 2209
conicis, minimis, atris, numerosissimis, in maculis exaridis demum
foliorum paginam inferiorem totam obducentibus.

Hab. in foliis vivis v. languidis *Spirææ Ulmaricæ* in Ger-
mania et Sibiria.

88. **Ascochyta malvicola** Sacc. Mich. I. p. 161. — Maculis subcircu- 2210
laribus sinuosive arescendo dealbatis, vix marginatis; peritheciis

sparsis punctiformibus lenticularibus, pertusis; sporulis breve cylindraceis, utrinque rotundatis, $20 \approx 4$, 1-septatis, leniter constrictis, minute 4-guttulatis, hyalinis.

Hab. in foliis *Malvæ silvestris*, Selva in Ital. bor.

89. **Ascochyta Passifloræ** Penz. et Sacc. F. Mortol. n. 39. tav. V. 2211
fig. 23. — Peritheciis sparsis, hypodermicis, ostiolo solo prominente, majusculis, 300–330 μ . diam., sphæroideis, valde depressis, contextu filamentoso, tenui, brunneo; sporulis oblongo-ellipticis, acutiusculis, medio septatis, ad medium haud constrictis, loculis sæpius inæqualibus, 8–12 \approx 4–5, dilute brunneis.

Hab. in pedunculis exsiccatis *Passifloræ hybridæ*, Mortola in Ital. bor. (O. PENZIG).

90. **Ascochyta? Astrantiæ** Roum. in Fung. Gall. n. 33. — Perithecia detegere non potui; maculæ vero ad *Pseudopezizam Astrantiæ* Schröt. (*Phacidium Astrantiæ* Ces.?) pertinere viderentur, sed ascomata desunt. 2212

Hab. in foliis *Astrantiæ majoris*, Mont Louis in Gallia.

91. **Ascochyta phomoides** Sacc. Mich. I. p. 530. — Peritheciis sparsis, subcutaneis, dein erumpentibus, globulosis, pertusis, 100–110 μ . diam.; sporulis oblongo-didymis, 7–9 \approx 4, leniter constrictis, hyalinis. 2213

Hab. in caule *Eryngii*, Rouen in Gallia (LETENDRE).

92. **Ascochyta anethicola** Sacc. Mich. II. p. 621. — Peritheciis gregariis innato-erumpentibus, prominulis, exiguis, $\frac{1}{6}$ mill. diam.; sporulis cylindraceo-oblongis, utrinque obtusiusculis, 8–10 \approx 3,5–4, initio continuis, dein 1-septatis, hyalinis. 2214

Hab. in foliolis languidis *Anethi* prope Rouen in Gallia (MALBRANCHE).

93. **Ascochyta Bupleuri** Thüm. Contr. Myc. Lus. n. 603. *Depazea Bupleuri* Fuck. Symb. myc. p. 382? — Peritheciis conicis, atris, numerosis, in macula exarida, grisea. 2215

Hab. in foliis vivis *Bupleuri subovati* Link. (*Bupleuri rotundifolii* Brot.) St. Clara pr. Coimbra in Lusitania, et *Bupleuri falcati* in Germania.

94. **Ascochyta Scabiosæ** Rabenh. in Kl. Hb. myc. 1253. — Cirris incarnatis hyalinis. 2216

Hab. in foliis vivis *Knautiæ arvensis* in Germania.

95. **Ascochyta Senecionis** Fuck. Symb. myc. p. 386. — Peritheciis minutis, globosis, atris, sine macula, in acervulos sparsos minutos aggregatis. 2217

Hab. in pagina infer. foliorum languidorum Senecionis saracenicæ, Hattenheim in Germania.

96. **Ascochyta Schelliana** Thüm. in N. Giorn. Bot. ital. — Peritheciis numerosis, gregariis, amphigenis vel cauliculis, conico-globosis, magnis, emersis, aterrimis in maculis exaridis, primo ochraceo-griseis, demum albido-griseolis; sporulis cylindræis, utrinque rotundatis, magnis, medio plerumque leniter angustatis vel calceiformibus, continuis vel medio obscure septatis, achrois, 25-33 \times 7-8,5.

Hab. in foliis et caulibus subvivi Centauræ glastifoliæ, Sierkly (Ufa) in Sibiria.

97. **Ascochyta fibricola** Sacc. Mich. I. p. 109. — Maculis subnullis; peritheciis lenticulari-punctiformibus, 140-150 μ . diam., inter fibras corticales nidulantibus; sporulis cylindræis, curvulis, 8-10 \times 3, utrinque obtusiusculis, 1-septatis, vix constrictis, fusco-olivaceis.

Hab. in caulibus putrescentibus Cinerariæ maritimæ, Rouen in Gallia (LETENDRE). — Affinis *Diplodiellæ fibricolæ* Berk., quæ peritheciis oblongis, sporulis brevioribus etc. differt.

98. **Ascochyta Chloræ** Sacc. et Sp. Mich. I. p. 163. — Maculis variis, arescendo expallentibus; peritheciis sparsis, globoso-lenticularibus, 100-200 μ . diam., subastomis; contextu laxo parenchymatico, dilute fuligineo; sporulis oblongo-fusoideis, 10-18 \times 2-3, 1-septatis, leniter constrictis, utrinque acutiusculis, hyalinis.

Hab. in foliis Chloræ perfoliatæ, Conegliano in Italia bor. (SPEGAZZINI).

99. **Ascochyta physalina** Sacc. Mich. I. p. 93. — Maculis arescendo ochraceis, vagis; peritheciis immerso-prominulis, epiphyllis, 100 μ . diam., pertusis; sporulis cylindræo-oblongis, constricto-1-septatis, 25-28 \times 8, 2-4-guttulatis, hyalinis.

Hab. in foliis languidis Physalidis Alkekengi in silva Montello Ital. bor.

100. **Ascochyta Petuniæ** Speg. Nov. Add. n. 156, et Sacc. Mich. II. p. 278. — Maculis fuligineis, circularibus, dein angulosis, concentricè saturatis et ruguloso-zonatis; peritheciis ratione majusculis 100-130, intense coloratis; sporulis cylindræo-ellipticis, medio 1-septatis, non vel vix constrictis, hyalinis 5-8 \times 2.

Hab. in foliis Petuniæ in hortis Belluno Ital. bor.

101. **Ascochyta Nicotianæ** Pass. Crittog. del Tabacco n. 2. — Peritheciis in maculis exaridis, irregularibus subaggregatis, fuscis; sporu-

lis ovoideo-oblongis, medio septatis et leniter constrictis, hyalinis, endoplasmate granuloso.

Hab. in foliis languidis, primo pallide variegatis *Nicotianæ Tabaci*, Parma in Italia.

102. **Ascochyta Daturæ** Sacc. Mich. I. p. 163. — Maculis subcircu- 2224
laribus, sinuosis, arescendo albicantibus, margine lato ochraceo cinctis; peritheciis gregariis epiphyllis, quandoque subconcentricis, e globoso lenticularibus, innato-prominulis 100 μ . diam.; sporulis cylindræo-oblongis, utrinque rotundatis, 7-8 \approx 3, 1-septatis, vix constrictis, hyalinis.

Hab. in foliis *Daturæ Stramonii*, Selva in Ital. bor., et in foliis vivis *Daturæ arboreæ*, Coimbra in Lusitania.

103. **Ascochyta Calystegiæ** Sacc. Mich. I. p. 165. — Maculis vagis 2225
irregularibus, arescendo brunneis, concentricè subzonatis, margine saturatori; peritheciis sparsis epiphyllis punctiformibus, lenticularibus, 90-100 μ . diam., pertusis, laxè cellulosis; sporulis oblongis v. subclavatis, 7-8 \approx 3, utrinque obtusiusculis, 1-septatis, non v. vix constrictis, hyalinis.

Hab. in foliis *Calystegiæ sepium*, Selva in Ital. bor.

104. **Ascochyta carpogena** Sacc. in Mich. II. p. 109. — Maculis obso- 2226
letis; peritheciis sparsis, lenticulari-punctiformibus, 150 μ . diam., pertusis, contextu melleo; sporulis oblongis clavulatisve, 10 \approx 4-6, constricto-1-septatis, utrinque rotundatis, dilute chlorinis, nubiosis.

Hab. in capsulis emortuis *Pharbitis hispidae* in Gallia (MALBRANCHE).

105. **Ascochyta verbascina** Thüm. Contr. Fung. Litor. n. 343. — 2227
Peritheciis epiphyllis, conico-hemisphæricis, semiimmersis, sparsis, nigris, parvulis, in maculis irregularibus, arescendo albidis, postremo elabentibus, latissime sordide violaceo-ochraceo-cinctis; sporulis cylindrico-ellipticis, utrinque angustato subrotundatis, rectis vel minime curvulis, uniseptatis, hyalinis, 6 \approx 2,5-3.

Hab. in foliis vivis *Verbasci sinuati*, Pola in Ital. bor. — Ab *Ascochyta Verbasci* Sacc. et Speg. characteribus notatis valde differt.

106. **Ascochyta Verbasci** Sacc. et Sp. Mich. I. p. 166. — Maculis 2228
arescendo sordide ochraceis, vagis, margine concolore; peritheciis sæpius epiphyllis, lenticularibus, 150-200 μ . diam., pertusis, cellulis dilute fuligineis sinuosis contextis; sporulis ovato-oblongis, 15-18 \approx 5-5,5, constricto-1-septatis, rectis v. leniter curvulis, 4-guttulatis, hyalinis.

Hab. in foliis Verbasci phlomidis, Conegliano in Italia bor. (SPEGAZZINI).

107. **Ascochyta Digitalis** Fuck. Symb. myc. pag. 388. — Peritheciis 2229
minutis, atris, in macula purpurascenti nidulantibus; sporulis nondum visis («hinc dubia species»).

Hab. in foliis vivis Digitalis purpureæ in Germania et Lusitania.

108. **Ascochyta Molleriana** Winter Cont. Myc. Lus. n. 796. — Ma- 2230
culis rotundatis seu irregularibus, arescendo griseis, late fusco-purpureo-cinctis, usque 12 mill. lat.; peritheciis sparsis epiphyllis, membranaceis, hemisphæricis, pertusis, pallidis, 120-140 μ . lat.; sporulis oblongis, sæpe medio parum angustatis, utrinque rotundatis, hyalinis, demum uniseptatis, sed non constrictis, 9,5-12 \approx 3,5.

Hab. in foliis vivis Digitalis purpureæ, Leonte (Serra de Gerez) in Lusitania.

109. **Ascochyta Lamiorum** Sacc. Mich. I. p. 170. — Maculis versi- 2231
formibus amphigenis, arescendo dilute ochraceis, margine paullo saturatiore; peritheciis punctiformibus, lenticularibus, 50-70 μ . diam., pertusis; sporulis bacillari-fusoideis utrinque acutiusculis, 9-11 \approx 2-2 $\frac{3}{4}$, 1-septatis, non constrictis, e hyalino chlorinis.

Hab. in foliis Lamii albi, Selva in Italia bor.

110. **Ascochyta Hyperici** Lasch. in Bot. Zeit. 1848, p. 294. — Ma- 2232
culis fulvis; cirris albis.

Hab. in foliis Hyperici perforati, Driesen, Rheingau in Germania, et Treviso in Ital. bor. — Sporulæ non visæ, verisimiliter tamen species eadem ac *Septoria Hyperici* Desm.

111. **Ascochyta Elaterii** Sacc. Mich. I. p. 166. — Maculis vagis, are- 2233
scendo pallide argillaceis, fusco-cinctis; peritheciis gregariis velatis, sublenticularibus, 100-110 μ . diam. late pertusis, initio (imperfectis) fulventibus, dein nigricantibus; sporulis cylindræo-oblongis, 20-22 \approx 4, utrinque rotundatis, rectis curvulisve, 1-septatis, non v. vix constrictis, hyalinis.

Hab. in foliis Momordicæ Elaterii in horto botanico patavino in Ital. bor.

112. **Ascochyta Plantaginis** Sacc. et Speg. Mich. I. p. 166. — Ma- 2234
culis variis arescendo brunneis; peritheciis gregariis, lenticulari-umbilicatis, 100-150 μ . diam., latiuscule pertusis, laxè celluloso-contextis, olivaceo-fuligineis; sporulis oblongis v. subellipsoideis, 7-12 \approx 2 $\frac{1}{2}$ -3, utrinque obtusis, sæpe curvulis, 1-septatis, non constrictis, 2-guttulatis, hyalinis.

Hab. in foliis Plantaginis majoris, Treviso in Ital. bor.

(SPEGAZZINI).

113. **Ascochyta volubilis** Sacc. et Malbr. Mich. II. p. 621. — Peri- 2235
theciis gregariis, globoso-lenticularibus, nigricantibus, punctiformibus, epidermide initio velatis; sporulis oblongo-ellipsoideis, utrinque rotundatis, initio continuis, dein medio septatis, 8-10 \approx 3-4, hyalinis.

Hab. in caule Polygoni Convolvuli, Rouen in Gallia (MALBRANCHE).

114. **Ascochyta vicina** Sacc. Mich. II. p. 109. — Maculis obsoletis; 2236
peritheciis gregariis hemisphærico-punctiformibus, 110-120 μ . d., pertusis, contextu melleo; sporulis anguste fusoides, 8-10 \approx 2-2 $\frac{1}{4}$, utrinque acutis, olivaceis, 1-septatis.

Hab. in caule Rumicis, Rouen in Gallia (LETENDRE), et Salviæ officinalis, Padova (BIZZOZERO). — V. β . **evonymella** Sacc. Peritheciis paullo majoribus, ceteris iisdem. In capsulis Evonymi europæi, Rouen in Gallia (LETENDRE).

115. **Ascochyta Aristolochiæ** Sacc. Mich. I. p. 165. — Maculis am- 2237
phigenis, subcircularibus, arescendo denigratis, margine saturatiore; peritheciis sparsis, remotis, punctiformibus, 60-70 μ . diam., lenticularibus, pertusis, contextu tenui-parenchymatico, luteo-fusco; sporulis ellipsoideo-oblongis, 7-9 \approx 3-3 $\frac{1}{2}$, utrinque rotundatis, rectis curvulisve, 1-septatis, vix constrictis, hyalinis.

Hab. in foliis Aristolochiæ Clematidis, Selva pr. Treviso in Ital. bor.

116. **Ascochyta Araujæ** Speg. Fungi Argent. Pug. IV. n. 301. — Ma- 2238
culis latiusculis, 3-5 mill. diam., subindeterminatis, centro candidis, peripherice fulvo-fuscescentibus, areola purpurascenti cinctis; peritheciis periphericis epiphyllis minutis, 75-95 μ . d., innato-prominulis, atris membranaceis; contextu olivaceo-fusco; sporulis ellipticis v. elliptico-cylindratis, utrinque obtusis, 8-15 \approx 4-5 medio, 1-septatis, non constrictis, sed quandoque attenuatis, chlorinulis.

Hab. in foliis languidis Araujæ albentis in sepibus, Boca del Riachuelo in Argentina.

117. **Ascochyta folliculorum** Penz. et Sacc. Fung. Mortol. n. 38. tav. 2239
V, fig. 21. — Peritheciis minutissimis, sparsis vel laxe congregatis, depressis, tenuibus, 67-80 μ . diam.; sporulis breviter cylindratis, utrinque rotundatis, medio paullulum constrictis, uniseptatis, dilute fuliginis, 6-7 \approx 3-3,5.

Hab. in folliculis vetustis *Stapeliæ* sp., Mortola in Italia boreali (O. PENZIG).

118. **Ascochyta Jenissensis** Sacc. Mich. II. p. 144. — Maculis epiphyllis subcircularibus, expallentibus, fusco-marginatis; peritheciis epiphyllis, lenticularibus, pertusis, $\frac{1}{10}$ mill. diam., contextu parenchymatico, pallide fusco; sporulis oblongis, utrinque rotundatis, curvulis, 1-septatis, vix constrictis, hyalinis.

Hab. in foliis *Menispermis dahurici* in lapidosis ad flumen Jenissei in Sibiria (MARTIANOFF).

IV. In *Monocotyledoneis* et *Acotyledoneis*.

119. **Ascochyta Erythronii** Sacc. et Sp. Mich. I. p. 163. — Maculis albescentibus, indeterminatis; peritheciis punctiformibus, lenticularibus, pertusis, 150–180 μ . diam.; contextu parenchymatico, dilute fuligineo; sporulis oblongo-fusoideis, 14–18 \approx 4–5, utrinque acutiusculis, 1-septatis, vix constrictis, hyalinis.

Hab. in foliis *Erythronii Dentis-canis*, Conegliano in Ital. bor. (SPEGAZZINI).

120. **Ascochyta aquatica** Speg. Mich. I. p. 483. — Peritheciis minutis, 90–100 μ . d., subepidermicis, contextu parenchymatico, densiusculo, olivaceo, ostiolo parvulo pertuso; sporulis oblongo-ellipticis, medio 1-septatis, ad septum non vel vix constrictis, dilute chlorinis, 7–9 \approx 2–3.

Hab. ad folia putrida *Lemnæ minoris* prope Conegliano in Italia boreali.

121. **Ascochyta teretiusecula** Sacc. et Roum. Mich. II. p. 621. — Maculis nullis; peritheciis innatis, punctiformibus, pertusis, 100–110 μ . diam.; sporulis cylindræis utrinque rotundatis, 10–14 \approx 2½ uniseptatis, vix constrictis, hyalinis.

Hab. in foliis *Luzulæ* in Arduennis (LIBERT).

122. **Ascochyta socialis** Sacc. Mich. II. p. 103. — Maculis vagis obsoletisque; peritheciis gregariis, punctiformi-lenticularibus, 100 μ . diam., pertusis, epidermide velatis; sporulis fusoideis, 15–16 \approx 5, constricto-1-septatis, perfecte hyalinis.

Hab. in foliis putrescentibus convolutis *Cyperacearum* (*Caricis*?) ad storeas conficiendas adhibitis et in aquis *Sequanæ* (*Seine*) diu natantibus, Parisiis. Legit cl. GAUDEFROY, qui autumat storeas prædictas ex Sinis forte provenisse.

123. **Ascochyta zeina** Sacc. Mich. I. p. 165. — Maculis longitudinaliter oblongis sanguineis, margine subconcolori; peritheciis grega-

riis, punctiformibus, lenticularibus, pertusis; contextu laxiuscule parenchymatico, fuligineo; sporulis oblongo-ellipsoideis, $18 \approx 7\frac{1}{2}$, utrinque rotundatis, 1-septatis, leniter constrictis, crasse 2-nucleatis, hyalinis.

Hab. in pag. sup. foliorum Zeæ Maydis, Conegliano in Italia boreali (A. BERENGER).

124. **Ascochyta Sorghi** Sacc. Fungi Ven. Ser. II. p. 302. — Maculis pallidis, sanguineo-cinctis; peritheciis sparsis punctiformibus, pertusis, atris; sporulis oblongo-ovoideis, $14 \approx 3$, 1-septatis, 4-guttulatis, hyalinis. 2246

Hab. in foliis Sorghi vulgaris, Selva in Ital. bor., sociâ *Sphærellâ Cerere* Sacc., cujus est spermogonium.

125. **Ascochyta sorghina** Sacc. Mich. I. p. 167. — Maculis longitudinaliter oblongis arescendo fuscis, sanguineo-marginatis; peritheciis dense gregariis, globoso-depressis, papillulatis, pro genere majusculis; sporulis oblongo-ellipsoideis, $20 \approx 8$, 1-septatis, leniter constrictis, minute pluriguttulatis, hyalinis. 2247

Hab. in foliis Sorghi vulgaris, Selva in Ital. bor. — Ab *A. zeina* peritheciis majoribus, sporulis pluriguttulatis etc. recedere videtur.

126. **Ascochyta donacina** Sacc. Myc. Ven. Spec. 107 (ut status pycnidicus *Leptosphæriæ donacinae*). — Peritheciis lenticularibus, 90-100 μ . diam.; sporulis didymis, 8-10 \approx 4-5, dilute flavis. 2248

Hab. in culmis Donacis in Italia et Gallia.

127. **Ascochyta perforans** (Rob.) Sacc. *Sphæria perforans* Rob. in Kickx t. I. p. 354. — Peritheciis sparsis, minutis, nigris, ellipsoideis, immersis, ostiolo brevi epidermidem perforante, dein late pertuso; sporulis hyalinis, ellipticis, acutiusculis, 1-septatis. 2249

Hab. in foliis *Ammophilæ arundinaceæ* in Belgio. — Spermogonium videtur *Metasphæriæ Sabulatorum*. — Cfr. *Sphærella perforans* (Sylloge I. p. 538).

128. **Ascochyta Oryzæ** Catt. Contrib. studio dei miceti che nascono sul Riso, Milano 1877, pag. 4. — Peritheciis epidermide semper tectis, celluloso-membranaceis, nigris, apice pertusis, intus pulpa sporularum repletis; sporulis lineari-oblongis, utrinque rotundatis, septo medio transverso ægre percipiendo bilocularibus, 4-nucleolatis, pallide flavicantibus, $15 \approx 4$. 2250

Hab. in foliis *Oryzæ sativæ*, Pavia in Italia.

129. **Ascochyta phyllachoroides** Sacc. et Malbr. Mich. II. p. 621. — Peritheciis in macula stromatica nigra hinc inde gregariis, pun- 2251

ctiformibus innatis; sporulis oblongis, 18-20 \approx 5-6, uniseptatis, loculo inferiore paullo tenuiore, hyalinis.

Hab. in utraque pag. foliorum languidorum graminum, Elbeuf in Gallia (MALBRANCHE).

130. **Ascochyta graminicola** Sacc. Mich. I. p. 127. — Maculis expal- 2252
lentibus v. obsoletis; peritheciis gregariis punctiformibus lenticularibus, 100 μ . diam., pertusis; contextu distincte parenchymatico fuligineo; sporulis ovato-fusoideis, 10-12 \approx 4, rectis, 1-septatis, 2-nucleatis, hyalinis.

Hab. in foliis Arrenatheri avenacei, Berlin in Germania (P. MAGNUS). — Var. β . **Holci** Sacc. Mich. II. p. 350: sporulis quam in typo longioribus et angustioribus, nempe fusoideis, 16-18 \approx 3-3½, leniter constrictis, minute 4-guttulatis, hyalinis; peritheciis lenticularibus, pertusis, 100 μ . d., sæpius inter nervos seriatis. In foliis Holci lanati in Gallia (MALBRANCHE). — Var. γ . **ciliolata** Sacc. Mich.: sporulis utrinque obsolete penicillatis, 18-20 \approx 3½-4, hyalinis, uniseptatis; peritheciis pertusis, 110-120 μ . diam., fuligineo-contextis. In foliis graminum in Arduennis (LIBERT). — An hæc postrema potius *Darluca*?

131. **Ascochyta Ischæmi** Sacc. Mich. I. p. 164. — Maculis indeter- 2253
minatis expallentibus; peritheciis punctiformibus, globulosis, innatis; sporulis ellipsoideis v. ovoideis, 10 \approx 4½, 1-septatis, non constrictis, 2-guttulatis, hyalinis.

Hab. in foliis culmisque Andropogonis Ischæmi, Narvesa, Treviso in Ital. bor. — *Ascochyta graminicolæ* Sacc. F. Magn. n. 30 affinis.

132. **Ascochyta Marchantiæ** Sacc. et Sp. Mich. I. p. 167. — Macu- 2254
lis obsoletis; peritheciis punctiformibus, lenticularibus, 90-100 μ . diam., plerumque seriatim digestis, erumpentibus, distincte celluloso-contextis, olivaceo-fuligineis; sporulis oblongis, 13-15 \approx 3-4, constricto-1-septatis, loculo altero plerumque paullo crassiore, 2-guttulatis, hyalinis.

Hab. in fronde emortua Marchantiæ, Conegliano in Italia bor. (SPEGAZZINI).

ROBILLARDA Sacc. Mich. II. p. 8. emend. (Etym. a cl. M. L. A. Robillard, botanophilo parisiensi). — Perithecia globoso-depressa, epidermide velata (maculicola, phyllogena) dein pertusa, membranacea. Sporulæ fusoideæ, 1-septatæ, chlorino-hyalinæ, apice setulas

longas (ternas) gerentes. Basidia nulla vel obsoleta. — A *Pestalozzia* præ ceteris perithecio præsentate differt.

1. **Robillarda sessilis** Sacc. Mich. II. p. 8, *Pestalozzia sessilis* Sacc. 2255
M. V. n. 975, Mich. I. p. 261. — Maculis parvis, angulosis, albicantibus, rufo-cinctis; peritheciis epiphyllis, innatis, epidermide velatis, dein circumscissâ pertusis, lenticularibus; sporulis sessilibus, oblongis, 9-11 \approx 3 $\frac{1}{2}$, 1-septatis, leniter constrictis, dilute olivaceis, setis ternis, 14 \approx 1, hyalinis apice coronatis.

Hab. in foliis languidis Rubi cæsii, Colfosco in Italia bor.

2. **Robillarda depazeoides** (W. et C.) Sacc., *Pestalozzia depazeoides* 2256
Welw. et Curr. F. Angol. p. 284, t. XVII. f. 14. — Macula oblonga, grisea, 18 mill. longa, margine fusco; peritheciis minutis nigris, macula insidentibus; sporulis pallide fuscis continuis, dein 1-septatis, non constrictis, setis tribus longis coronatis, 12-15 μ . longis (absque ciliis).

Hab. in foliis Fici andongensis in summis jugis Pungo-Andongo in Africa.

ACTINONEMA Fries Summa Veg. Scand. p. 424. (Etym. *actin* radius, et *nema* filum). — Perithecia minuta, obtusa, subsuperficialia, astoma, fibrillis eximie dendritico-radiantibus, arachnoideis, epiphyllis, superficialibus adnata. Sporulæ typice oblongæ, hyalinæ, stipitatæ, 1-septatæ, vel (in subg. *Asteromidio*) 2-pluriseptatæ. — In pluribus speciebus fructificatio latet.

I. *Eu-Actinonema*.

Sporulæ 1-septatæ.

1. **Actinonema Rosæ** (Lib.) Fr. S. V. Sc. p. 424, *Asteroma Rosæ* 2257
Lib. in Ann. Soc. Linn. 1826, *Asteroma radiosum* Fr. El. II. p. 151. — Epiphyllum; maculis purpurascensibus; fibrillis e centro radiantibus, ramosis distinctis, albido-arachnoideis; peritheciis tuberculiformibus, sparsis, collabentibus, nigricantibus; sporulis oblongis, constricto-1-septatis, 18-20 \approx 5, basidiis paullo brevioribus suffultis.

Hab. in pag. sup. foliorum nondum emortuorum Rosæ centifoliæ, gallicæ, rubiginosæ etc. in Suecia, Gallia, Britannia, Italia, Belgio, Germania, Austria, Lusitania, America boreali.

2. **Actinonema Cratægi** Pers. Myc. Eur. I. p. 52, *Capillaria Cratægi* 2258
Link Sp. pl. Fung. II. p. 22. — Epiphyllum; maculis fuscis; fibrillis e centro radiantibus, ramosis distinctis canescentibus, demum

e peritheciis minutissimis connatis nodulosis, nigricantibus; sporulis..... ignotis.

Hab. in pag. sup. foliorum Cratægi torminalis et Viburni Opuli in Gallia, Germania, Italia, Helvetia. — *Asteroma Cratægi* Desm. et Berk. ex parte sistit *Fusicladium*, dum genuina species toto habitu ad *Actin. Rosæ* accedit, etsi ipse perithecia sporigera nondum viderim. — Maculæ fuscae, irregulares, 6 mill. latae, sed confluentes; etiam hypophyllæ, sed et ita steriles. Fibrillæ radiatim excurrentes, ramosæ, discretæ, folio innatæ, primo canescentes, dein vero e peritheciis nigris (ipsis fibrillis innatis, seriatis, confluentibus, sub lente forti tantum discernendis) nigricantes et noduloso-asperæ; apices vero pallent.

3. **Actinonema Padi** (DC.) Fr. Summa p. 424, *Asteroma Padi* DC. 2259
Fl. Fr. VI. p. 164, *Phlyctidium Padi* Wallr. Comp. n. 2310. — Peritheciis subrotundis, sparsis, minutissimis, patellaribus, pallidis, margine tenui concolore cinctis, sæpius confluentibus, hypostromati epiphyllis ex radiis filamentosis, compressis, deplanatis, tenerimis, arcte adpressis, distinctis, arachnoideo-byssoideis, dichotomoramosis, a centro obsolete inde dendritico-radiantibus albis composito adfixis, maculas centro fusco-cinereas mentientibus; sporulis..... ignotis.

Hab. in pag. sup. foliorum virentium Pruni Padi in Gallia, Germania, Suecia. — Accedit ad *Act. Rosæ*, sed hyphis ambitu longioribus, magis deplanatis minusque continuis crispulis, maculas longe ampliores præstantibus, et peritheciis minoribus distinguitur.

4. **Actinonema Rubiacearum** (Lév.) Sacc. *Asteroma Rubiacearum* 2260
Lév. in Ann. Sc. Nat. 1845, p. 64. — Peritheciis epiphyllis, minimis, globosis, nigris, subiculo fibrilloso-ramoso tenuissimo arcte adnato insidentibus; sporulis bilocularibus; basidiis filiformibus subramosis.

Hab. in foliis Rubiaceæ cujusdam in Senegal (GUILLEMIN).

II. *Asteromidium*.

Sporulæ 2-pluriseptatæ.

5. **Actinonema Guepini** (Mont.) Sacc. *Asteroma Guepini* Mont. 7 Cent. 2261
p. 305-63. — Epiphyllum, maculare, atrum; maculis eximie orbiculatis planis confluentibus, zona dilutiore cinctis, sub epidermide ortis; filis macularum e centro radiantibus crassis fine acutis; peritheciis dimidiatis poro pertusis; sporulis oblongis quadrilocularibus, 25 μ . longis.

Hab. ad folia exotica Monocotyledoneæ cujusdam in calathos ad fabas arabicas invehendas texta (GUEPIN). — «An sporulæ propriæ? An species *Asterinæ* sec. *Asteridii*, ascis jam resorptis?».

6. **Actinonema Uvariæ** (Lév.) Sacc. *Asteroma Uvariæ* Lév. Ann. Sc. 2262 Nat. 1846, p. 284. — Fibrillis epiphyllis, adnatis, radiantibus, ramosis, subparallelis; peritheciis raris hemisphæricis, ostiolo obsoleto; sporulis ovato-elongatis obtusis, 4-septatis.

Hab. ad folia Uvariæ parvifloræ in Senegambia. — Maculæ 2-4 mill. diam.

DARLUCA Cast. Cat. pl. Mars. Suppl. p. 53. (Etym. a M. DARLUC, rerum naturalium cultore, gallicano). — Perithecia globulosa, obsolete papillata, pertusa, superficialia, in soris *Uredinearum* plerumque parasitica, membranacea, contextu sæpius cyanescente. Sporulæ oblongæ vel fusoideæ, 1-septatæ, hyalinæ, utrinque mucoso- vel subpenicillato-apiculatæ.

1. **Darluca Filum** (Biv.) Cast. Cat. Pl. Marseill. Sup. p. 53, *Sphæria* 2263 *Filum* Biv. Bern. Stirp. rar. Sic. Manip. III. p. 12, t. III. p. I. *Darluca vagans* Cast., *Diplodia uredinicola* Desm. — Peritheciis gregariis, uredinicolis, exiguis, conico-globulosis, pertusis, atris; contextu celluloso cyaneo-fusco; sporulis oblongo-fusoideis, rectis, 15-18 = 3-4, 1-septatis, non vel leniter constrictis, hyalinis, utrinque obsolete et breve mucoso-penicillatis.

Hab. in Uredineis permultis ad plantas diversissimas e. g. Ipomeæ, Euphorbiæ, Rubi, Oreoselini, Galegæ, Chondrillæ, Oxalidis, Potentillæ, Pruni, Laburni, Violæ, Pycnanthemis, Quercus, Junci, Luzulæ, Agrostidis, Rhynchosporæ, Bromi, Panici etc. etc. in Italia, Gallia, Belgio, Germania, Britannia, America bor., Ceylon, Africa.

2. **Darluca genistalis** (Fr.) Sacc. Mich. II. p. 108, *D. Filum* β . *do-* 2264 *thideæformis* Fuck. Symb. p. 379. — Peritheciis minutis, in acervulos erumpentes, tuberculosos, atros, subhemisphæricos dense collectis; sporulis ut in *D. Filo*.

Hab. in foliis caulibusque vivis Cytisi sagittalis, socio *Uromycete Cytisi* in Vogesis, Rhenogovia et Belgio. — Var. β . **stromatica** Fuck. l. c. effusa, stromatica, fusco-atra. In foliis et vaginis Agrostidis stoloniferæ, sociâ *Uredine*, in Rhenogovia. — Var. γ . **hypocreoides** Fuck. l. c. cæspitulis subglobosis, $\frac{1}{2}$ mill. diam., griseis, ostiolis nigro-punctatis. In pag. inf. foliorum Salicis purpureæ, sociâ *Uredine*, in Rhenogovia.

3. **Darlucæ Bivonæ** Fuck. Symb. p. 379, t. II. f. 22. — Erumpens, 2265
epidermide expallescens, fissâ circumdata; stromate spurio nigro,
in centro albo, plerumque sporulis candidis tecto; peritheciis 3-
10 in orbem circa pustulam centralem dispositis, minutis, globo-
sis, atris, ostioli papillæformibus, prominulis; sporulis cylindra-
ceis, rectis, obtusis, utrinque cum appendicula fasciculari sporu-
lam dimidiam æquante, subtilissima et facile caduca coronatis, 12 = 3.

Hab. in foliis et præcipue petiolis Populi moniliferæ, ra-
rius in Rhenogovia. — «An reapse *Sphæria Filum* β. *poputi-*
cola Biv. huc spectet, mihi dubium est».

4. **Darlucæ ascochytoïdes** Sacc. et Roum. in Rev. Mycol. — Peri- 2266
theciis hinc inde aggregatis sparsisve, tectis, globoso-lenticula-
ribus, pertusis; contextu parenchymatico melleo; sporulis oblongo-
fusoideis, 18 = 5, 1-septatis, vix constrictis, utrinque breve seti-
geris, hyalinis, obsolete guttulatis.

Hab. in foliis languidis Allii Ampeloprasi in Algeria. —
Habitatione sine *Uredine* et contextu haud cyaneo a *D. Filo*
differt. — Cfr. *Ascochyta graminicola* var. γ.

DIPLODINA West. 5 Not. p. 19 in nota (Etym. a *Diplodia*, cui ana-
logum genus). — Perithecia subcutanea vel erumpentia, globuloso-
papillata, atra, glabrescentia. Sporulæ ellipsoideo-oblongæ, 1-se-
ptatæ, hyalinæ. — Est *Diplodia* hyalodidyma.

1. **Diplodina Salicis** West. 5 Not. p. 19, Kickx Fl. Fl. I. p. 394. — 2267
Peritheciis sparsis, nigris, sphaericis, $\frac{2}{3}$ mill. diam., tectis, ostiolo
papillato; sporulis fusoideis, angustis, hyalinis, 1-septatis, 15 = 3,3,
non constrictis.

Hab. in ramis Salicis babylonicæ, Courtrai in Belgio.

2. **Diplodina stenospora** (B. et C.) Sacc. *Diplodia stenospora* B. et C. 2268
North Amer. Fungi n. 422. — Peritheciis papillæformibus e ma-
cula grisea oriundis; sporulis angustis, hyalinis breviter fusifor-
mibus.

Hab. in cortice Aceris rubri in Carolina super. Amer. bor.

3. **Diplodina truncata** (Lév.) Sacc. *Diplodia truncata* Lév. Ann. Sc. 2269
Nat. 1846, pag. 290. — Peritheciis subcarnosis, compactis, albis,
truncatis, epidermide lacerata circumdatis; sporulis minutis, ovato-
elongatis, bilocularibus, hyalinis.

Hab. in ramis Æsculi Hippocastani, Paris in Gallia et
Courtrai in Belgio. — An *Melanconieis* affinior?

4. **Diplodina herbicola** (B. et C.) Sacc. *Diplodia herbicola* B. et C. 2270

North Amer. Fungi n. 420 (bis). — Peritheciis sparsis, breviter hysteriiformibus, epidermide tectis; sporulis oblongo-ellipticis, hyalinis.

Hab. in caule Nepetæ Catarinæ in Pennsylvania Amer. bor. (MICHENER).

5. **Diplodina acervata** (Lév.) Sacc. *Diplodia acervata* Lév. Ann. Sc. Nat. 1848, p. 259. — Peritheciis innatis, erumpentibus, cæspitosis, globosis, atris, opacis, intus albis, primum astomis, demum collo exerto pertuso donatis; sporulis minutis ovato-ellipsoideis, subhyalinis, 1-septatis.

Hab. ad caules aridos Astragali Monspeliensis, Montredon prope Marseille in Gallia.

6. **Diplodina Dianthi** (Ces.) Sacc. *Diplodia Dianthi* Ces. Bot. Zeit. 1855, p. 286. — Subepidermica, gregaria, minutissima; peritheciis astomis; sporulis ovalibus, hyalinis, 1-septatis.

Hab. in caulibus Dianthi proliferi in Italia superiore. — «An *Ascochyta?*».

7. **Diplodina Galii** (Niessl) Sacc. *Diplodia Galii* Niessl Mahr. p. 33. — Peritheciis minutis, sparsis, subglobosis, atris, epidermide tectis, erumpentibus; sporulis ovatis, 2-guttatis, hyalinis, demum constricto-1-septatis, 7-8 = 4-5.

Hab. in caulibus siccis Galii Mullaginis in Moravia.

8. **Diplodina ascochytoides** Sacc. Mich. II. p. 106 (sub *Diplodia*). — Peritheciis gregariis, erumpenti-superficialibus, globulosis, breve papillatis, $\frac{1}{6}$ mill. diam.; contextu molliusculo, parenchymatico, fuscidulo; sporulis oblongis, utrinque rotundatis, 15-17 = 6, valde inæquilateralibus, didymis, leniter constrictis, 2-4-guttulatis, dilute chlorinis.

Hab. in caulibus Schoberinæ maritimæ, sociâ *Pleospora* prope Pas-de-Calais in Gallia (GAUDEFROY).

9. **Diplodina Ellisii** Sacc. *Diplodia hyalospora* C. et Ell. in Grevill. — Peritheciis tectis, minimis, punctiformibus, membranaceis; sporulis elongato-ellipticis, 1-septatis, subconstrictis, hyalinis, 20-26 = 9, rarius 2-septatis.

Hab. in caule Chenopodii, New Jersey in Amer. bor.

10. **Diplodina cassubica** Sacc. *Phoma? cassubica* Sacc. Mich. I. p. 125. — Peritheciis gregariis, epidermide velatis, dein semi-erumpentibus, astomis, longitudinaliter oblongis, subcarbonaceis, aterrimis; sporulis cylindræis, 18-20 = 2, utrinque obtusiusculis, curvulis rectisve, 1-septatis, non constrictis, hyalinis; basidiis dense fasciculatis, 50-60 = 3, filiformibus, guttulatis, hyalinis.

Hab. in caule *Viciæ cassubicæ*, Driesen, Brandenburg (P. MAGNUS).

11. **Diplodina deformis** (Karst.) Sacc. *Diplodia deformis* Karst. Symb. 2277
Fenn. XV. pag. 156. — Peritheciis sparsis, sæpe 2-4-aggregatis, emergentibus, variis, subastomis, atris, 0,3 mill. d.; sporulis elongatis, vel oblongo-fusoideis, rectis, 1-septatis, hyalinis vel dilutissime flavidis, 9-13 \approx 2-3.

Hab. in ramulis emortuis *Sambuci racemosæ* in Fennia.

12. **Diplodina periglandis** (C. et H.) Sacc. *Diplodia periglandis* Cooke 2278
et Harkn. in Grev. 1881 p. 83. — Erumpens; peritheciis globosis, atris, demum subliberis; sporulis ellipticis, uniseptatis, hyalinis, medio non constrictis, 15 \approx 4.

Hab. in glandibus *quercinis* in California.

13. **Diplodina dracænicola** Sacc. Cfr. Grev. 1881, p. 48. — Sparsa, 2279
minuta atro-maculosa; sporulis oblongis, constricto-1-septatis, hyalinis, 15-17 μ . longis.

Hab. in foliis *Dracænæ* cultæ in Britannia, socio *Mycosporio dracænicolo* B. et Br.

14. **Diplodina graminea** Sacc. Mich. II. p. 297 (sub *Diplodia*). — 2280
Peritheciis minutis, globoso-conoideis, erumpentibus, sæpe 2-4 seri-
atim connatis, nigris; sporulis oblongis, 15-16 \approx 5-7, constricto-
didymis, loculis quandoque secedentibus, hyalinis.

Hab. in culmis *Cynodontis Dactyli*, Padova in Italia bor.

15. **Diplodina arundinacea** Sacc. *Pleosporæ* (Leptosph.) *arundinaceæ* 2281
Micropycnidium Fuck. Symb. p. 137. — Peritheciis innato-erum-
pentibus, sæpe cæspitulosis, papillatis; sporulis oblongis, 1-septatis,
hyalinis, 12 \approx 2.

Hab. in culmis *Phragmitis communis* in Rhenogovia.

16. **Diplodina Parmeliæ** (B. et C.) Sacc. *Diplodia Parmeliæ* B. et C. 2282
North Amer. Fungi n. 421 (bis). — Peritheciis depressis, laxe la-
natis, apice perforatis; sporulis medio constrictis, articulis inæqua-
libus, hyalinis.

Hab. parasitica in *Parmelia* quadam in Carolina infer. —
«An potius *Chætodiplodiæ* species?».

CYSTOTRICHIA B. et Br. Ann. N. H. n. 448. (Etym. *cyste* vesica, et
thrix seta). — Perithecia superficialia vel subsuperficialia, ligni-
cola, horizontaliter elongata, longitrorsum dehiscentia. Sporulæ
oblongæ, 1-septatæ, hyalinæ, basidiorum filiformium articulato-
moniliformium lateribus insertæ. — Hinc ad *Subcupulatas*, illic
ad *Nectrioideas* forte accedit.

1. **Cystotricha Striola** B. et Br. Ann. N. H. n. 448, t. XII. fig. 10. 2283

— Peritheciis punctiformibus vel linearibus, sæpe breve seriatis, nigro-subrubescentibus, disco rubente; basidiis cylindricis, valde evolutis, sursum 1-2-ramosis, articulato-moniliformibus, articulis subcuboideis; sporulis pleurogenis oblongis, continuis, dein 1-septatis, pellucidis.

Hab. in ligno decorticato in Britannia. — Fructificatio fere *Tuberculariæ* sed perithecium adest.

2. **Cystotricha stenospora** B. et C. North Amer. Fungi n. 450 (bis). 2284

— Linearis vel hysteriiformis inter fibras ligneas erumpens; basidiis moniliformibus; sporulis lateralibus uniseptatis, breviter fusiformibus, hyalinis.

Hab. in ligno dealbato Alni in Pensylvania (MICHENER).

RHYNCHOPHOMA Karst. Hedw. 1884, p. 19, em. (Etym. *rynchos* rostrum, et *Phoma*). — Perithecia subglobosa, rostrata, erumpentia vel subsuperficialia. Sporulæ ovato-oblongæ distincte vel obsolete 1-septatæ, hyalinæ. — Est *Phoma* sed perithecio rostrato et sporulis bilocularibus.

1. **Rhynchophoma trachelina** (Lév.) Sacc. *Sphæronæma thrachelium* 2285

Lév. Ann. Sc. Nat. 1846, p. 280. — Peritheciis elongatis, cylindricis, rugosis, apice pertusis stromate atro subcarbonaceo impositis; sporulis minutissimis, ovatis, bilocularibus.

Hab. ad truncos putridos in Hispaniola (PORTEAU). — Perithecia 3-4 mill. alta.

2. **Rhynchophoma crypta** Karst. Hedw. 1884, p. 19. — Peritheciis 2286

sparsis, ligno alte innatis, subsphæroideis vel ovoideis, atris, 100-150 μ . latit., rostro teretiussculo, gracillimo, perithecio duplo quadruplove longiori, apice ultimo conoideo prominulo; sporulis ellipsoideis simplicibus vel guttulatis, subinde spurie tenuiter uniseptatis, 6-8 = 3-4.

Hab. in ligno carioso Tiliæ ulmifoliæ, Aboa Fennicæ.

3. **Rhynchophoma Radula** (B. et C.) Sacc. *Sphæronema radula* B. 2287

et C. North Amer. Fungi n. 402. — Erumpens, conica, compressa; apice sæpe truncato ob sporulas adhærentes pallide roseo; sporulis brevibus, fusiformibus, hyalinis, uniseptatis vel endochromate utrinque retracto.

Hab. in ramis Aceris rubri in Carolina infer. Amer. bor.

REPERTORIUM

SPHÆRIOIDEARUM HYALODIDYMARUM

SECUNDUM MATRICES

Obs. A. indicat *Ascochyta*. — Ac. *Actinonema*. — C. *Cystotricha*. — D. *Darluca*. — Di. *Diplodina*. — R. *Robillarda*. — Rh. *Rhynchophoma*.

Numeri 1123 — 2287 citantur 123 — 287

- | | |
|----------------------------|------------------------------|
| Acacia — A. 179. | Bignonia — A. 157. 158. |
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| Æsculus — Di. 269. | Bromus — D. 263. |
| Agrostis — D. 263. 264. | Bupleurum — A. 215. |
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| Alnus — C. 284. | |
| Althæa — A. 208. | Calycanthus — A. 165. |
| Ammophila — A. 249. | Calystegia — A. 225. |
| Andropogon — A. 253. | Carpinus — A. 171. |
| Anemone — A. 187. | Centaurea — A. 218. |
| Anethum — A. 214. | Cephalanthus — A. 164. |
| Anona — A. 160. | Cercis — A. 126. |
| Anthyllis — A. 200. | Chenopodium — Di. 275. |
| Aquilegia — A. 191. | Chlora — A. 220. |
| Arauja — A. 233. | Chondrilla — D. 263. |
| Arbutus — A. 161. | Cicer — A. 197. 198. |
| Aristolochia — A. 237. | Cineraria — A. 219. |
| Armoracia — A. 194. | Citrus — A. 153. 154. |
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| Astragalus — Di. 271. | Cnicothamnus — A. 155. |
| Astrantia — A. 212. | Cornus — A. 146. |
| Aucuba — A. 147. 148. | Coronilla — A. 125. |
| | Corylus — A. 172. |
| Berberis — A. 124. 182. | Cratægus — A. 130. — R. 258. |

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 Ficus — A. 175. — R. 256.
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 Galium — Di. 273.
 Garrya — A. 167.
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 Hedera — A. 149. 185.
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 Hypericum — A. 232.

 Ipomæa — D. 263.
 Iuncus — D. 263.

 Knautia — A. 216.

 Laburnum — D. 273.
 Lamium — A. 231.
 Lenna — A. 242.
 Ligustrum — E. 136.
 Limonia — A. 152. 153.
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 Luzula — A. 243. — D. 263.

 Magnolia — A. 123.
 Malva — A. 210.
 Manioht — A. 186.
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 Menispermum — A. 240.
 Momordica — A. 233.
 Monocotyledoneæ — R. 261.
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 Nepeta — Di. 270.
 Nerium — A. 166.
 Nicotiana — A. 223.
 Nymphæa — A. 192.

 Oreodaphne — A. 163.
 Oreoselinum — D. 263.
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 Paliurus — A. 145.
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- Rumex — A. 236.
- Salix — A. 178. — D. 264. — Di. 267.
- Salvia — A. 236.
- Sambucus — A. 141. — Di. 277.
- Saponaria — A. 201.
- Sarothamnus — A. 181.
- Schoberia — Di. 274.
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- Sorghum — A. 246. 247.
- Spiræa — A. 209.
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- Trollius — A. 190.
- Ulmus — A. 168.
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- Verbascum — A. 227. 228.
- Viburnum — A. 137. 138. 139. — R. 258.
- Vicia — Di. 276.
- Viola — A. 193. — D. 263.
- Vitis — A. 150. 151. 183.
- Weigelia — A. 144.
- Zea — A. 245.

Sect. 5. Phragmosporæ Sacc.

Sporulæ oblongæ v. fusoidæ, 2-pluriseptatæ, fuscæ, rarius hyalinæ.

I. Phæophragmiæ Sacc.

Sporulæ fuliginæ v. olivacæ.

Clavis analytica generum.

* Perithecia discreta.

A) Sporulæ invicem liberæ.

§ Sporulæ muticæ.

† Perithecia papillata v. subastoma.

Hendersonia. Perithecia typice subcutanea, ostiolata, subiculo nullo insidentia. — β . *Sporocadus*: perithecia majora; sporulæ amplæ massarioideæ. — γ . *Hendersoniella*: perithecia epixyla.

Couturea. Perithecia superficialia, subastoma, subiculo stellato melioloideo insidentia.

†† Perithecia apice ample operculatim circumscissa.

Angiopoma. Perithecia superficialia obconico-elongata, atra, hirta.

Lichenopsis. Perithecia immersa, subglobosa, extus pallida, glabra.

§§ Sporulæ ciliatæ.

Cryptostictis. Sporulæ utrinque 1-aristatæ.

B) Sporulæ plures basi stellatim conjunctæ.

Prothemium. Perithecia tecta, subcarbonacea, globoso-depressa.

** Perithecia stromate dothideaceo immersa.

Hendersonula. Est *Hendersonia* stromate dothideaceo instructa.

II. Hyalophragmiæ Sacc.

Sporulæ hyalinæ v. subhyalinæ.

Stagonospora. Perithecia subglobosa, tecta, plerumque minuta.

Mastomyces. Perithecia verticaliter elongata, erumpenti-superficialia, majuscula.

HENDERSONIA Berk. Suppl. p. 203, t. XI, f. 9, em. (Etym. ab E. G. HENDERSON botanophilo anglo). — Perithecia subcutaneo-erumpentia vel subsuperficialia, globoso-papillata vel depressa, membranacea vel subcarbonacea, atra. Sporulæ oblongæ vel fusoidæ, 2-pluriseptatæ, olivacæ vel fuliginæ. — Adsunt formæ, in posterum in genera propria merito seponendæ, e. g. formæ peritheciis

epixylis subsuperficialibus (*Hendersoniella*); formæ massarioideæ sporulis maximis (*Sporocadus* Sacc.). Species hyalophragmias in genus proprium (*Stagonospora*) seposui.

I. *Eu-Hendersonia*.

Perithecia tecta, minora; sporulæ mediocres vel minutæ.

A) *In ramis Dicotyledonearum lignosarum.*

1. **Hendersonia biseptata** Sacc. Mich. I. p. 95. — Peritheciis gregariis subcutaneo-erumpentibus, 80-90 μ . diam., globulosis, papillatis, atris; contextu membranaceo-carbonaceo, parenchymatico, distincto; sporulis ellipsoideis, initio stipitellatis, continuis, dein 3-locularibus, vix constrictis, loculo medio quandoque brevioribus, 10-12 \approx 5-6, fuliginosis.

Hab. in ramulis *Jasmini officinalis*, Vittorio in Ital. bor. — Forma β . **Capparidis**: sporulis ad septa magis constrictis, 14-15 \approx 7-7 $\frac{1}{2}$. In sarmentis *Capparidis*, Conegliano (SPEGAZZINI). — Forma γ . **Pruni domesticæ**: sporulis leniter constrictis, 10 \approx 4-5, dilutioribus. In ejusdem ramulis, Padova.

2. **Hendersonia pauciseptata** B. et C. North Amer. Fungi n. 425. — Peritheciis appianatis, basi epidermide cinctis; sporulis oblongis, triseptatis, utrinque obtusis vel basi acutatis, hyalino-marginatis, 7-12 \approx 2 $\frac{1}{2}$ -4, varie pedicellatis.

Hab. in ramis *Liriodendri*, Lauri Benzoin, *Populi dilatatae*, *Lagerstrœmiæ* in Carolina infer. et in Pennsylvania Americæ sept. — Habetur var. in *Rhoe glabra*. «De sporularum colore nulla mentio, an ergo genuina *Hendersonia*?».

3. **Hendersonia vagans** Fuck. Symb. Myc. p. 392, *Hend. Piri* Fuck. En. Nass. n. 415 cum icono. — Peritheciis oblongis epidermidem dein erumpentibus, atris; sporulis longe stipitatis, oblongo-ellipticis, quadrilocularibus, flavis.

Hab. in cortice ramorum plurium arborum, e. g. *Pruni domesticæ*, *Piri communis*, *Salicis*, *Sorbi*, *Fraxini* etc. in Germania et Italia bor.

4. **Hendersonia ulmea** Karst. Symb. Myc. Fenn. XV. p. 158. — Peritheciis subgregariis cortici plus minus insculptis, rotundatis, ut plurimum inæqualibus, sæpius papilla brevissima obtusa instructis, glabris, atris, 0,4-0,5 mill. d.; sporulis ellipsoideis vel oblongatis, utrinque plus minus attenuatis, 3-septatis, fulvis dein fulvo-fuliginosis, 14-18 \approx 6-8.

Hab. ad ramos exsiccatos *Ulmi*, Aboa Fennicæ.

5. **Hendersonia platypus** Ell. et Everh. Torr. Bot. Cl. 1884, p. 73. 2292

— Peritheciis punctiformibus vel subelongatis, nigris maculâ oblongâ vel subrotundâ albâ, 2-4 = 1-2 mill. insidentibus; sporulis oblongo-ellipsoides, sed satis ludibundis, plerumque 12-15 = 3,5-4, subinde longioribus et angustioribus, 19 = 3, 3-septatis, flavido-brunneis; basidiis basi incrassatis, 7 μ . longis.

Hab. in sarmentis Rubi villosi et R. canadensis, Cobden Illinois Amer. bor. (F. S. EARLE). — Ab *H. sarmentorum* probe diversa.

6. **Hendersonia sarmentorum** West. Bull. de Brux. XVIII. n. 60, f. 2. 2293

— Peritheciis sparsis, numerosis, brunneo-fuscis, tectis, applanatis, poro dehiscentibus; sporulis ellipsoideis, brunneis, triseptatis, 10-12 = 4-5, basidiis hyalinis suffultis.

Hab. in sarmentis ramisque plurium fruticum et arborum, e. g. Vitis, Hederæ, Rubi, Ampelopsidis, Aceris, Galegæ, Jasmini, Berberidis, Lauri, Ailanthi, Populi in Italia boreali, Britannia, Gallia et America bor. — Var. **Sambuci**: sporulis 12-14 = 6. In ramis Sambuci in Arduennis. — Sequentes formas in agro tarvisino et patavino observavi. — **Hederæ**: sporulis ellipsoideis, 3-septatis, 10 = 5, fuligineis. — **Aceris campestris**: sporulis ut supra, 12 = 4. — **Ailanthi** (in petiolis): sporulis ut supra, 11 = 4. — **Lauri**: sporulis ut supra, 10-12 = 4½-5. — **Ampelopsidis hederaceæ**: sporulis ut supra, 10-11 = 5. — **Salicis vitellinæ**: sporulis ut supra, 10-12 = 4. — **Berberidis**: sporulis ut supra, 10-12 = 4-5. — **Populi nigræ** (in ligno): sporulis ut supra, 10-11 = 5. (An *Hendersoniella*?). — **Jasmini officinalis**: sporulis ut supra, 10-12 = 4-4½. — **Calycanthi floridi**: sporulis ut supra, 12 = 4.

7. **Hendersonia Gleditschiæ** Kickx Fl. Crypt. Fl. I. p. 368. — Peritheciis nigris, erumpentibus, 2-8-aggregatis, poro pertusis; sporulis ellipsoideis, obtusis, brunneis, 3-septatis; basidiis filiformibus. 2294

Hab. in ramulis et spinis Gleditschiæ Triacanthi in Belgio.

8. **Hendersonia Wistariæ** Cooke in Rav. Amer. Fungi 782, Grev. XII. p. 24. — Sparsa, tecta, dein erumpens; peritheciis subglobosis vel depressis, atro-fuscis; sporulis lanceolatis, triseptatis, fuscis, 10 = 3. 2295

Hab. in ramulis Wistariæ sinensis in Carolina inferiore Americæ borealis.

9. **Hendersonia mammillana** (Fr.) Curr. Linn. Trans. 1859, XXII. 2296

fig. 85, *Sphaeria mammillana* Fr. S. M. II. p. 487. — Peritheciis subsparsis, nigris, globoso-depressis, epidermide clypeato-nigrifi-

cata tectis; sporulis brunneis, triseptatis, vel endochromate 4-partito, magnitudine variis, 12-18 μ . longis.

Hab. in ramis Rhamni in Suecia et Britannia.

10. **Hendersonia rhamnicola** Cooke Præcursor Monogr. Henders. p. 21. 2297
— Peritheciis; sporulis elongato-ellipticis, triseptatis, fuscis, 20 \approx 9.

Hab. in ramis Frangulæ in Britannia (?).

11. **Hendersonia decipiens** Thüm. Myc. Univ. n. 577. — Peritheciis 2298
gregariis, rotundatis vel oblongis, leniter elevatis, epidermide tectis, dein liberis, perforantibus, pusillis, atris, in epidermidis partibus expallescens; sporulis numerosis, longo-ovoideis vel subovatis, utrinque obtusis, quadrilocularibus, loculis æqualibus, sine nucleo, sessilibus, dilute fuscis, subdiaphanis, 13-14 \approx 6-6,5.

Hab. in ramulis emortuis, adhuc pendulis, Corni albæ, Bayreuth in Bavaria. — Differt a *H. Corni* Fuck. sporulis sessilibus, fuscis, ovoideis non nucleatis.

12. **Hendersonia Fiedleri** West. in Kickx Fl. Crypt. Flandr. I. p. 389, 2299
H. Corni Fuck. En. F. Nass. n. 416 cum icone. — Peritheciis globosis, initio epidermide tectis, nigris; sporulis stipitatis, oblongis, 15-18 \approx 4, 3-septatis, fuligineis, loculo infero hyalino.

Hab. in ramulis Corni sanguineæ, C. albæ in Belgio, Italia bor., Bavaria, Britannia, Germania. — *H. Fiedleri* in Rabh. F. E. n. 1847 est p. p. *Pestalozzia Veneta* **P. tricuspis* Sacc.

13. **Hendersonia Viburni** Ellis Bull. Torr. Bot. Club. 1882, p. 133. 2300
— Peritheciis in cæspitulos valsoideos innato-erumpentes digestis; sporulis ellipticis, brunneis, 3-septatis, 13-15 \approx 5,5, sporophoris duplo triplo longioribus suffultis.

Hab. in Viburno Lentagine, Decorah, Iowa Amer. bor.

14. **Hendersonia Syringæ** Fr. Summa Veg. Scand. p. 416. — Gre- 2301
garia, suberumpens; peritheciis subellipticis depressis, rugulosis, nigris, ostiolo subtili; sporulis non descriptis.

Hab. in ramulis emortuis Syringæ vulgaris in Suecia, Austria infer. — Var. **fructicola** Thüm. In fructibus Syringæ, Bayreuth Bavaricæ.

15. **Hendersonia occulta** (Lib.) Fr. Sacc. Mich. II. p. 629, *Sphæria* 2302
occulta Lib. nec Fr. — Peritheciis gregariis, subcutaneo-erumpentibus, globulosis, 200 μ . diam., pertusis; sporulis cylindræo-clavulatis, 25 \approx 3, rectis curvulisve, apice obtusioribus, 5-septatis, non constrictis, olivaceo-fuligineis, basidiis fasciculatis, cylindræo-nodulosis, polymorphis subhyalinis suffultis.

Hab. in ramis corticatis *Syringæ*, Malmedy in Arduennis. — *Sphæria occultata* Fr. El. II. p. 72 potius *Diaporthem resecan-tem* spectare videtur.

16. **Hendersonia Pubentis** Cooke Præcursor Monogr. Henders. p. 22, 2303
Hend. Sambuci Peck in 25 New York Report p. 87, non West.
 — Peritheciis numerosis, sparsis, minutis, nigris, initio epidermide tectis, dein erumpentibus; sporulis elliptico-oblongis, coloratis, triseptatis, 12 ≈ 5.

Hab. in ramis *Sambuci pubentis* in America boreali. — Sporulæ initio 1-septatæ.

17. **Hendersonia Sambuci** Müll. (sec. exempl. Winteri in meo Her- 2304
 bario), Sacc. Mich. I. p. 213. — Peritheciis gregariis, minutis, glo-
 boso-papillatis, nigris, intus epidermide tectis dein liberis; sporulis
 oblongo-fusoideis, 10-12 ≈ 3, 1-3-septatis, olivaceo-fuligineis.

Hab. in ramis corticatis *Sambuci nigræ*, Selva in Italia sup. Germania et Sibiria. — Var. β . **detecta**: sporulis 16-18 ≈ 2-2½, 3-septatis, olivaceis. In ramis *Sambuci* decorticatis in Gallia (LETENDRE).

18. **Hendersonia diplodioides** Ell. et Everhart. in litt. ad me. — Pe- 2305
 ritheciis subdeplanatis, ⅓ mill. diam., epidermide rupta cinctis;
 sporulis ellipticis, brunneo-fuligineis, biseptatis, ad septa plerumque
 leviter constrictis, 22-30 ≈ 18-20; basidiis 20-25 ≈ 5 μ . longis.

Hab. in cortice *Sambuci glaucæ* prope Washington Amer. bor. (W. N. SUKSDORF).

19. **Hendersonia hirta** (Fr. p. p.) Curr. Simpl. Sphær. p. 324, *Sphæ-* 2306
ria hirta Fr. S. M. II. p. 483, p. p. — Peritheciis tectis, pusillis,
 depressis, subirregularibus, subtiliter villosis, nigricantibus; ostiolo
 erumpente; sporulis oblongis, 3-septatis, brunneis, 12-15 μ . longis.

Hab. in ramis emortuis *Sambuci racemosæ* in Suecia et Germania. — Probabiliter status pycnidicus *Massariæ hirtæ*. Cfr. Syll. II. p. 9.

20. **Hendersonia Peckii** Clinton in Peck Rep. on the St. Mus. N. Y. 2307
 — Peritheciis minutis, punctiformibus, epidermide tectis, erumpen-
 tibus, nigris; basidiis longis exilibus; sporulis oblongis, dilute co-
 loratis, triseptatis, 12-18 μ . longis, basidio brevioribus (a quo mox
 deciduis).

Hab. in ramis vivis *Loniceræ flavæ*, Buffalo Amer. bor.

21. **Hendersonia Mariæ** Clinton in Peck Rep. on the St. Mus. N. Y. 2308
 — Peritheciis globulosis, minutis, atris; sporulis oblongis, subinde

leniter constrictis, 5-septatis, 25 μ . longis, coloratis, loculo extimo utroque hyalino; basidiis persistentibus, sporulâ brevioribus.

Hab. in ramis virentibus *Lonicerae flavæ*, Buffalo Amer. bor. (CLINTON).

22. **Hendersonia *Lonicerae*** Fries Summ. Veg. Sc. p. 146, sec. Lamb. 2309

Fl. Myc. Flandr. — Peritheciis pustuliformibus, brunneis, nitidis, tectis, poro dehiscentibus; sporulis elongatis, obtusis, triseptatis.

Hab. in ramulis *Lonicerae Caprifolii*, Liege in Belgio et in Suecia. — Color sporularum ignotus: an ergo *Stagonospora*? Sec. Cooke Præc. p. 20 *Diplodia polymorpha* De Not. huc spectat, quæ vero *Camarosporium*.

23. **Hendersonia *obtusa*** Cooke Præcursor Hend. p. 20, *Hend. Loni-* 2310

cerae Cooke in Grevillea IV. p. 115, nec Fr. — Peritheciis gregariis, minutis, primo tectis, atris; sporulis ovatis oblongisve, brunneis, 2-3-septatis, non constrictis (forte tantum plasmate 2-3-partito).

Hab. in ramulis *Lonicerae diversifoliae* Saharunpore in India orient.

24. **Hendersonia *Vitis*** (Schulz.) Sacc. *Cheilaria Vitis* Schulzer v. Müg. 2311

genburg in Pirotta I Funghi parass. dei Vitigni p. 67. — Peritheciis magnis, nigris, gibbosis, demum cupuliformibus; basidiis simplicibus, molliusculis, luteolis, monosporis; sporulis oblongis, apice obtusis, plerumque 5-septatis, pallide brunneis, 22-28 \approx 6-8.

Hab. in ramis *Vitis viniferæ* in Hungaria (SCHULZER).

25. **Hendersonia *Vitis-silvaticæ*** (Cast.) Catt. I Funghi parass. dei 2312

Vitigni p. 61, *Sphæria Vitis-silvaticæ* Castagne Catal. pl. Marseille p. 173. — Peritheciis rotundis vel ovatis, nigris, epidermide rupta cinctis, prominulis; ostiolo conico; basidiis monosporis; sporulis ovoideis, distinctissime 2-septatis.

Hab. in sarmentis *Vitis viniferæ* var. *silvestris*, Marseille in Gallia (CASTAGNE). — An *Stagonospora*?

26. **Hendersonia *ampelina*** Thüm. Pilze des Weinstockes p. 147. — 2313

Peritheciis gregariis, liberis, plano-orbiculatis vel pseudo-disciformibus, leniter elevatis vel subcompressis, sublevibus, atris; sporulis subclavatis vel clavato-lanceolatis, utrinque angustatis, subacutatis, quadri- raro triseptatis, non pedicellatis, dilute fuscescentibus, subpellucidis, 14-16 \approx 6-7.

Hab. in sarmentis emortuis *Vitis æstivalis*, Albany in America septentr. (PECK).

27. **Hendersonia *longipes*** B. et C. North Amer. Fungi n. 425^{bis}. — 2314

Peritheciis demum liberatis, collapsis; sporulis oblongis, angustis, triseptatis, pedicellis longissimis ex hyphis decumbentibus septatis oriundis.

Hab. in ramis Vitis et Rosæ in Carolina sup. — An *Stagonospora*?

28. **Hendersonia fissa** (Fr.?) Sacc. *Sphæria fissa* Fr.? Hazl. Sph. 2315

Ros. p. 215, fig. 21-22. — Peritheciis globosis, stromate villosio-furfuraceo insertis, subconfluentibus, rugulosis, papillatis, demum fisso-dehiscentibus; sporulis oblongo-ellipsoideis, utrinque rotundatis, 3-septatis, loculis interioribus fuligineis, extimis subhyalinis, 13-14 μ . longis; basidiis sporulâ duplo longioribus, articulatis.

Hab. in ramis Rosarum in Hungaria.

29. **Hendersonia Rubi** West. (ut var. *H. sarmentorum*), Sacc. Mich. 2316

I. p. 214. — Peritheciis sparsis vel gregariis, globoso-depressis, papillulatis, atris, subcutaneo-erumpentibus; sporulis ellipsoideis, 12-18 \approx 5-6, 3-septatis, fuligineis, loculo infimo pellucido.

Hab. in sarmentis Rubi fruticosi, Colli Euganei in Italia bor., in Belgio et Gallia. — Affinis *Hendersoniæ sarmentorum* West. a qua tamen satis differt.

30. **Hendersonia europæa** Speg. F. Arg. Pug. IV. n. 303. — Peri- 2317

theeciis lenticulari-subglobosis, primo tectis, dein erumpentibus, immersis, parvulis, 200-300 μ . d., densiuscule gregariis, membranaceo-subcarbonaceis, atris, indistincte ostiolatis, in senectute sæpe irregulariter ruptis; sporulis ellipticis, majusculis, 38-40 \approx 15, opace fuligineis, 3-septato-constrictis, loculis 2 extimis minoribus pallidioribusque subsessilibus, paraphysibus vix longioribus, filiformibus, hyalinis obvallatis.

Hab. in ramis putrescentibus Rubi discoloris ad sepes, Boca del Riachuelo. — Species a genere *Hendersonia* nonnihil recedens.

31. **Hendersonia Tiliæ** Lév. in Ann. Sc. Nat. 1846, p. 288. — Pe- 2318

ritheciis gregariis intus extusque nigris, cortice immersis, ostiolo minute papillatis; sporulis elliptico-elongatis, 2-3-septatis, brunneis.

Hab. in cortice Tiliæ europææ, Paris in Gallia.

32. **Hendersonia coryneoidea** Cooke et Harkn. in Grevill. 1881, p. 128. 2319

— Peritheciis sparsis, tectis, dein epidermidem stellatim findentibus; sporulis magnis, lanceolatis, 5-7-septatis, loculis ultimis hyalinis, ceteris olivaceo-fuscis, 50 \approx 10.

Hab. in ramis Eucalypti in California. — Sporulæ *Corynei* sed perithecio inclusæ.

33. **Hendersonia Eucalypti** Cooke et Harkn. in Grevill. 1881, p. 128. 2320
 — Peritheciis in maculas orbiculares collectis, immersis; sporulis ellipticis, infra attenuatis, sursum subclavatis, triseptatis, fuscis, 20 \approx 6, dein erumpendo inquinantibus.
Hab. in ramulis et foliis emortuis Eucalypti in California.
 — Forma in ramis præbet perithecia magis sparsa et sporulas saturatius coloratas, ceterum non diversa.
34. **Hendersonia Tecomæ** Sacc. Mich. I. p. 212. — Peritheciis (ge- 2321
 nuinis?) epidermide tumidula et nigrificata velatis, globosis, breviter papillatis; sporulis ovato-oblongis, rectis vel curvulis, 8-11 \approx 5, initio continuis, stipiteque brevissimo conico hyalino fultis, dein 3-septatis, non constrictis, dilute fuligineis.
Hab. in ramis Tecomæ radicans, Conegliano in Italia bor. (SPEGAZZINI).
35. **Hendersonia Symploci** B. et Br. F. of Ceylon n. 794. — Peri- 2322
 theciis nitidis, sæpe circinantibus; sporulis fusiformibus triseptatis, 30 μ . longis.
Hab. in Symploco obtuso, Central province Indiæ orient.
 — « An *Stagonospora?* ».
36. **Hendersonia hyalopus** B. et C. North Amer. Fungi n. 428. — 2323
 Peritheciis in cæspitulos minutos congestis epidermide cinctis; sporulis brunneis fusoides, breviusculis, obliquis, utrinque acutis, 5-septatis; pedicellis brevibus hyalinis.
Hab. in ramis Rhois copallinæ in Carolina inferiore.
37. **Hendersonia Glabræ** Cooke Præcursor Monogr. Henders. p. 21, 2324
Hendersonia pauciseptata forma Rhois B. et C. North Amer. Fungi. — Peritheciis.....; sporulis breviter fusiformibus, triseptatis, fuscis, 15 \approx 6,5.
Hab. in ramis Rhois glabræ in Amer. bor.
38. **Hendersonia findens** Cooke in Grevill. (sub nom. *fissurata*). — 2325
 Gregaria; peritheciis in lineas erumpentibus, epidermidem findentibus; sporulis arcte ellipticis, brunneis, triseptatis, 12 \approx 4,5.
Hab. in cortice Fici, Darien, Georgia, in Amer. bor.
39. **Hendersonia salicina** Sacc. *Cucurbitariæ* (Melanomma) *Hender-* 2326
soniæ pycnid. Fuck. Symb. p. 172. — Peritheciis spuriis subcutaneis scutiformibus confluentibusque, 2 mill. diam., griseis, intus fuscis, compactis; sporulis longissime stipitatis, stipite mox deciduo, oblongis, antice obtusioribus, 3-septatis, flavis, 16-18 \approx 6.
Hab. in ramis corticatis Salicis auritæ in Rhenogovia. — « An *Coryneum?* ».

40. **Hendersonia Pini** Fuck. Symb. Myc. App. nec West. (quæ *Ca-* 2327
marosporium). — Peritheciis (?) in cortice nidulantibus, atris, de-
mum laceratis; sporulis cum pedicello longissimo colorato, maturis
oblongis, rectis, utrinque obtusis, medio quandoque parum contra-
ctis, 3-septatis, demum obscure fuscis, $24 \approx 8$.

Hab. in ramis corticatis Abietis excelsæ in Hallgarter
Wald Rhenogoviæ.

41. **Hendersonia rostrata** Sacc. et Ellis Mich. II. p. 572. — Peri- 2328
theciis sparsis, innato-erumpentibus, globulosis, vix papillatis, con-
textu parallelo celluloso, fuligineo; sporulis fusoides curvulis, utrin-
que cuspidatis, 3-4-septatis, ochraceo-olivaceis, utrinque sensim
pallidioribus, totis $50-55 \approx 3$, parte colorata, 30-35 μ . longa; basi-
diis brevibus, hyalinis, interdum furcatis.

Hab. in cortice ramorum Pini, Newfield N. J. in Amer. bor.
(ELLIS). — *Hendersoniæ fusarioidi* analogæ.

42. **Hendersonia fusarioides** Sacc. Mich. I. p. 213. — Peritheciis e 2329
peridermio dealbato erumpenti-superficialibus atris, globulosis vel
(collabascendo?) subcupularibus, epapillatis; sporulis in basidiis ra-
mosis furcatisve acrogenis, fusiformibus, $35-38 \approx 4-5$, subinæqua-
libus, curvulis, 3-5-septatis, pallide fuligineo-olivaceis, loculis ex-
timis hyalinis.

Hab. in cortice duriore Robiniæ Pseudacaciæ, Conegliano in Ital. bor., et Quercus Suberis in Algeria (SPEGAZZINI).
— Species *Hendersoniæ Arcu* B. et. Br. cognata, at contextu fu-
ligineo nec cœruleo, sporulis subolivaceis, sæpius 5-septatis di-
stincta.

43. **Hendersonia exigua** Cooke in Grevillea et F. Brit. II. n. 24 cum 2330
icone. — Peritheciis sparsis, minutis, punctiformibus, membrana-
ceis, nigro-brunneis, leniter applanatis, 85 μ . diam.; sporulis mi-
nutis, ellipticis, biseptatis, pallide brunneis, 10-12 μ . longis.

Hab. in cortice leviori in Britannia.

B. In foliis fructibusque Dicotyledonearum lignosarum.

44. **Hendersonia Magnoliæ** Sacc. Mich. I. p. 216. — Maculis arescen- 2331
do candicantibus, irregularibus, brunneo-marginatis; peritheciis re-
mote sparsis, punctiformibus, globoso-lenticularibus, 150 μ . diam.,
pertusis; sporulis oblongo-fusoides, $12-16 \approx 3-3\frac{1}{2}$, utrinque acu-
tiusculis, 3-septatis, non v. paullulum ad septum medium constrictis,
olivaceis.

Hab. in foliis languidis Magnoliæ grandifloræ, Treviso in Ital. bor., et Perpignan in Gallia.

45. **Hendersonia Henriquesiana** Sacc. et Roum. Rel. Myc. Libert. Ser. 2332
IV. n. 148. — Peritheciis epidermide velatis, globoso-depressis, atris, $\frac{1}{4}$ mill. diam.; sporulis fusoideis, utrinque acutiusculis, re-
ctis, 14-18 \approx 4-6, 3-septatis, melleo-fuligineis, loculo infimo hya-
lino; basidiis filiformibus fasciculatis, hyalinis, 20-22 \approx 2.

Hab. in fructibus putrescentibus Rosæ villosæ, Malmedy in Arduennis (LIBERT). — Ad *Hendersoniam Fiedleri* accedit.

46. **Hendersonia vulgaris** Desmz. 22 Not. p. 12. — Epiphylla; pe- 2333
ritheciis minutis, erumpenti-innatis, globoso- vel ovoideo-depressis,
nigris, nitidis, vertice dein ruptis, in macula polymorpha, albida
vel grisea exarida subgregariis; sporulis ellipsoideis, obtusis, 15 \approx
6,5, 3-septatis, fuscidulis.

Hab. in foliis languescentibus Rubi et Populi in Gallia.

47. **Hendersonia theicola** Cooke in Grevillea. — Peritheciis globosis, 2334
nigris, prominulis, apice pertusis, sparsis vel subgregariis; sporu-
lis cylindricis, utrinque rotundatis, triseptatis, pallide brunneis,
10-12,5 μ . longis, basidiis 10-12 μ . longis, hyalinis suffultis.

Hab. in foliis Theæ, quam valde vexat, Cachar in India orientali.

48. **Hendersonia maculans** (Corda) Lév. *Sporocadus maculans* Cor- 2335
da Icon. fung. III. p. 23, fig. 66. — Peritheciis epi- et hypophyl-
lis, in maculis indeterminatis albis sparsis, immersis, contextu e
cellulis oblongis fuligineis constante; sporulis fusoideis, utrinque
acutiusculis, 20-22 \approx 6-7, fuligineis, basidiis bacillaribus, 25 \approx 1 $\frac{1}{2}$
hyalinis suffultis.

Hab. in foliis Camelliæ et Quercus Ilicis in Gallia et Bohemia.

49. **Hendersonia cornicola** (DC. p. p.) Linn. Trans. 1859, fig. 146, 2336
Sphæria cornicola DC. Fl. Fr. p. 147 p. p. — Maculis arescendo
expallentibus; peritheciis minutis, sparsis; sporulis ellipticis, 3-se-
ptatis, pallide brunneis, 10-15 μ . longis, basidiis longis suffultis.

Hab. in foliis Corni in Gallia. — *Sphæria cornicola* DC. p. p. est *Septoria*.

50. **Hendersonia foliorum** Fuck. Symb. myc. p. 392. — Peritheciis 2337
spuriis tectis, in macula pallidiori, atris, ostiolis (?) subconicis, epi-
dermidem perforantibus, et atro-inquinantibus; sporulis longe pe-
dicellatis, oblongis, subcurvatis, triseptatis, flavis, loculo ultimo
hyalino, 15 \approx 6-7.

Hab. in foliis Quercus, Populi nigræ, Salicis Capræ, Pruni domesticæ, Cydoniæ in Germania, Italia, Gallia. — β . **Viburni** Sacc. Mich. II. pag. 572: maculis amphigenis, angulosis, ochraceis; peritheciis sparsis; sporulis oblongis, 15-16 \approx 5-6, 3-septatis, ad septa constrictis, æqualiter fuligineis, 4-guttatis. In foliis languidis Viburni prunifolii, Delaware Co. Pennsylvania (Doct. G. MARTIN, dedit ELLIS).

51. **Hendersonia fructigena** Sacc. Mich. I. p. 212. — Peritheciis spar- 2338
sis erumpentibus e globoso depressis, papillulatis, contextu minute parenchymatico dilute fuligineo; sporulis cylindræis initio stipitellatis, 23-25 \approx 6, 3-septatis, ad septa leniter constrictis, minute guttulatis, dilute fuligineis, stipitibus sporulâ brevioribus.

Hab. in drupis arescentibus Cerasi, Padova in Ital. bor.

52. **Hendersonia Cydoniæ** C. et Ell. in Grevillea t. 99, f. 5. — Epi- 2339
phylla; peritheciis minutis, atris, in maculas pallidas congestis; sporulis subfusiformibus, triseptatis, brunneis, 15-18 \approx 6-7.

Hab. in foliis vivis Cydoniæ, New Jersey in Amer. bor.

53. **Hendersonia cydonicola** Thüm. et Pass. in Thüm. Fungi pomi- 2340
coli p. 114. — Peritheciis densissime gregariis, crustam fere granulatam formantibus, sæpe confluentibus v. contiguis elevatis, irregularibus, conico-subglobosis, atris, pro ratione magnis, opacis, insidentibus; sporulis regularibus, clavatis vel clavato-obovatis, vertice rotundatis, basi in stipite hyalino, stricto, subæquilongo, citissime evanido angustatis, 3-septatis, ad septa non constrictis, dilute fumosis, 10 \approx 5.

Hab. in fructu arido, non putrescente, Cydoniæ sinensis, Parma in Italia (PASSERINI).

54. **Hendersonia piricola** Sacc. Fungi Ven. Ser. II. p. 311. — Macu- 2341
lis epiphyllis, magnitudine variis, angulosis, ex albo cinerescentibus; peritheciis globoso-lenticularibus, minutis, atris, sparsis; sporulis ovoideis 2-3-septatis, olivaceis, 10 \approx 5.

Hab. in foliis languidis Piri communis, Treviso in Italia boreali. — Pycnidium *Leptosphæricæ Lucillæ*.

55. **Hendersonia Mali** Thüm. Contr. F. Litor. n. 138, tav. I. fig. 27. 2342
— Peritheciis disciformibus, epiphyllis, magnis, sparsis, planis, nigris in maculis exaridis, cinereis, orbiculatis, violaceo-cinctis; sporulis clavatis, vertice rotundatis, basi leniter angustato-acutatis, bi-triseptatis, ad septa non constrictis, pellucidis, dilute cinereis, 12-15 \approx 4-5.

Hab. in foliis vivis Piri Mali, Gorizia.

56. **Hendersonia Torminalis** Sacc. Fungi Ven. Ser. V. p. 207. — Ma- 2443
culis epiphyllis, fuscis, aridis, latis; peritheciis (spuriis?) lenticularibus, atris, $\frac{1}{5}$ mill. diam., remotiusculis; sporulis oblongis, 12-15 \approx 6, 6-ocularibus, loculo basilari hyalino, ceteris fuscis, stipitibus filiformibus 12 μ . longis, hyalinis suffultis.
Hab. in foliis languidis Sorbi torminalis in silva Montello Ital bor. — Affinis *Hendersoniæ foliorum* Fuck.
57. **Hendersonia Rhododendri** Thüm. Contr. Funghi Litor. n. 310. — 2344
Peritheciis sparsis, epiphyllis, globulosis, nigris in maculis valde irregularibus, arescendo fusco-griseis, zona obscuriore cinctis; sporulis lanceolato-cylindricis, utrinque subangustato-rotundatis, tri-vel quadriseptatis sed ad septa non constrictis, rectis, fuscis, 8-12 \approx 4.
Hab. in foliis vivis Rhododendri hirsuti, Plezzo in Italia boreali.
58. **Hendersonia eminens** Desm. 19 Not. p. 9. — Hypophylla, sub- 2345
libera; peritheciis minutis, 200 μ . diam., subglobosis, fusco-nigris, mollibus; ostiolis papillatis, demum deciduis; sporulis ovoideo-oblongis, obtusis, pallide olivaceis, 3-septatis, 15 \approx 7.
Hab. in foliis siccis Quercus Ilicis in Gallia.
59. **Hendersonia acericola** Sacc. Mich. I. p. 216. — Maculis subcir- 2346
cularibus, subochraceis; peritheciis lenticularibus, 80 μ . diam., pallide melleis; sporulis oblongis, 8-10 \approx 4, utrinque obtusiusculis, chlorinis, basidiis brevissimis suffultis.
Hab. in foliis Aceris campestris, Selva in Italia bor. — Affinis *Hendersoniæ corylaricæ*.
60. **Hendersonia celtifolia** Cooke, Præcursor Monogr. Henders. p. 22. 2347
Peritheciis.....; sporulis clavatis, triseptatis, fuscis, 15-25 \approx 8.
Hab. ad folia Celtidis in America boreali.
61. **Hendersonia corylaria** Sacc. Mich. I. p. 216. — Maculis amplis 2348
variis, arescendo subochraceis brunneo-cinctis; peritheciis punctiformibus, nigris; sporulis obovatis, deorsum acutiusculis apice subrotundatis, 12 \approx 7, 3-septatis, ad septa non (sed paullulum tandem ad medios loculos) constrictis, dilute fuligineis.
Hab. in foliis languidis Coryli Avellanæ, Selva in Italia boreali.
62. **Hendersonia Alcides** Sacc. Mich. I. p. 215. — Maculis foliorum 2349
arescendo candicantibus fusco-cinctis, subcircularibus; peritheciis epiphyllis punctiformibus, atris; sporulis oblongo-ellipsoideis, utrinque rotundatis, 11 \approx 6-7, 3-septatis, ad septa nonnihil constrictis, fuligineis.

Hab. in foliis Populi nigræ, Vittorio in Ital. bor. — Affinis *Hendersoniæ piricolæ* Sacc.

63. **Hendersonia Araucariæ** Thüm. in Myc. univ. n. 682. — Peritheciis spuriis, sparsis, erumpentibus, amphigenis, subconicis, parvis, atris, epidermidem perforantibus; sporulis elongato-orculæformibus, utrinque plano-truncatis, triseptatis, ad septa obsolete constrictis, loculis æqualibus, breve pedicellatis, dilute fuscis, $15 \approx 5$, sine pedicello; pedicellis hyalinis, evanescentibus, $4-5 \mu$. longis, parte superiore lenissime dilatatis. 2350

Hab. in foliis languidis aridisve Araucariæ brasiliensis, A. Bidwelli, A. Cunninghamii, Roma (BAGNIS), Gorizia et Strazig in Litor. Austr. (BOLLE).

64. **Hendersonia conorum** De Lacr. Bot. Zeit. 1863, p. 229. — Peritheciis sphæroideis, ostiolo brevi notatis, gregariis, subcutaneis, epidermidem sublevantibus; sporulis oblongo-ovoideis, 3-septatis, fuscis, loculo infimo subhyalino, in basidium longum, gracile hyalinum abeunte sporophorisque ramosis insidente. 2351

Hab. in strobilis Pini silvestris etc. in Gallia.

65. **Hendersonia notha** Sacc. et Br. F. Gallici n. 2239. — Peritheciis gregariis, globoso-depressis, subsuperficialibus, verrucosis, astomis, $\frac{1}{10}-\frac{1}{8}$ mill. diam., contextu parum distincto; sporulis oblongo-cylindræis, $10-12 \approx 4$, utrinque rotundatis, rectis, 3-septatis constrictisque, olivaceo-fuligineis. 2352

Hab. in pagina inf. foliorum Juniperi communis, Troyes Galliæ (BRIARD).

66. **Hendersonia thyoides** C. et Ell. Grevillea t. 99. f. 4. — Sparsa, epiphylla; peritheciis subglobosis, atris, papillatis, superficialibus; sporulis lanceolatis, 5-septatis, brunneis, $25 \approx 9$. 2353

Hab. in foliis Cupressi thyoidis, New Jersey in Amer. bor.

67. **Hendersonia foliicola** (Berk.) Fuck. Symb. p. 391 *Podisoma foliicolum* Berk. in Sm. Fl. Br. V. p. 362. *Pod. Juniperi* *?* *minus* Corda Ic. I. p. 8, f. 122. — Peritheciis epiphyllis, brunneo-nigris, subglobosis, subellipticis vel irregularibus; sporulis ellipticis vel clavatis, obtusis, 3-5-septatis, basidiis filiformibus, radiatis, agglutinatis suffultis. 2354

Hab. in foliis vivis Juniperi communis in Britannia et Germania.

C. In caulibus, foliis fructibusque Dicotyledonearum herbacearum.

68. **Hendersonia pulchella** Sacc. Mich. I. p. 112 (non Myc. Ven.) *H. macrospora* Sacc. Mycol. Ven. p. 199, t. XVII. f. 24, non Berk. 2355

et Br. *H. Saccardiana* Cooke Præc. Hend. p. 21. — Peritheciis innato-prominulis, globulosis, breviter papillatis, atris; sporulis elongato-fusoideis, rectis curvulisve, 7-9-septatis, $30 \approx 6$, luteolis, dein obscurioribus.

Hab. in ramulis Sambuci nigræ in Italia bor. — Var. **Galliorum**: sporulis 7-septatis, $30 \approx 5$, fuligineis. In Ital. bor. — Var. **Saponariæ**: sporulis 9-10-septatis, $40 \approx 5$, olivaceo-fuligineis. In Italia bor. — Var. **Xylostei**: sporulis 9-11-septatis, $45 \approx 4$, fuligineis. In Italia bor. — Var. **Lychnidis dioicæ**: sporulis 9-10-septatis, $45 \approx 4\frac{1}{2}$, fuligineis. In Italia bor. — Var. **Lupui**: sporulis 9-11-septatis, $35 \approx 5$, aureo-fuligineis. In caulibus Humuli Lupuli in Gallia.

69. **Hendersonia magna** Cooke F. Texas p. 142. — Erumpens in lineas seriatas disposita; peritheciis atris, subglobosis, hinc illinc conatis, dothideoideis, irregulariter fisso-erumpentibus; sporulis cylindræis, obtusis, 3-5-septatis, $60-65 \approx 10$ («coloratis?»).

Hab. in caulibus herbaceis, Houston Texas. — An e sectione *Sporocadi*? An *Stagonospora*? An *Hendersonula*?

70. **Hendersonia diversispora** (Preuss) Sacc. *Sporocadus diversispora* Pr. Fungi Hoyersw. n. 152. — Gregaria, immersa, suberumpens, minutissima, punctiformis; peritheciis atris, subconicis, perforatis; sporulis oblongis, subfusiformibus, 1-2-3-septatis, subfuscis, hilo notatis.

Hab. in caulibus siccis herbarum, præsertim Delphinii Ajacis, Hoyerswerda.

71. **Hendersonia circinans** Sacc. *Byssothecii circinantis* pycnidium Fuck. Symb. p. 142. — Peritheciis in Rhizoctoniæ villo vel in hujus viciniis in cortice semiimmersis, globosis, atris, rugulosis, media magnitudine, subastomis; sporulis in sporophororum simplicium apicibus, oblongo-ovatis 3-septatis, $32 \approx 12$, loculis 2 int. fusco-violaceis, extimis minoribus pallidioribus.

Hab. in radicibus cauleque inf. Medicaginis sativæ in Rhénogovia.

72. **Hendersonia Lupini** Cooke et Harkn. Grev. 1881, p. 84. — Sparsa, erumpens; peritheciis subglobosis, prominulis, atris, obtusis; sporulis anguste ellipticis, hyalinis, demum fuscis, triseptatis, $16-18 \approx 3,5$.

Hab. in Lupino in California.

73. **Hendersonia anomala** C. et Ell. in Grevillea. — Erumpens; peritheciis elongatis, atris; sporulis ellipticis, triseptatis, brunneis, cellulis ultimis hyalinis, quandoque divisis et constrictis, $20 \approx 10$.

Hab. in *Tephrosia virginiana*, New Jersey in Amer. bor.

— An *Camarosporium*?

74. **Hendersonia Lirella** Cooke in Grevillea et Præc. Hend. p. 20. — 2361
Sparsa, linearis, erumpens; sporulis late fusiformibus v. clavato-
ellipticis, brunneis, triseptatis, 15-18 \approx 8.

Hab. in caulibus *Spirææ Ulmariae* in Britannia. — Habitus *Diaporthes Lirellæ*.

75. **Hendersonia microphylla** Cooke in Grev. XII. p. 38. — Peritheciis 2362
ciis membranaceis, fuscis, globoso-compressis, sparsis, semiimmer-
sis; sporulis cylindræis obtusis, rectis, triseptatis, pallide fuscis,
15 \approx 3,5.

Hab. in foliis *Paronychiæ serpyllifoliæ*, Luchon Galliae.

76. **Hendersonia ichthyospora** Sacc. Mich. I. p. 124. — Peritheciis 2363
gregariis epidermide velatis dein erumpentibus, globuloso-appla-
natis, $\frac{1}{2}$ - $\frac{1}{4}$ mill. diam., breviter papillatis; contextu distincte cel-
luloso fuligineo, solidiusculo; sporulis oblongis, 15-18 \approx 3 $\frac{1}{2}$, 3-se-
ptatis, non constrictis e hyalino dilute olivaceis in stipitem sensim
attenuatis ideoque subpisciformibus, stipite filiformi 30-35 long.,
basi $\frac{3}{4}$ μ . crasso, hyalino.

Hab. in caulibus ramisque *Umbelliferarum* ad Börnicke prope Bernau in Marchia Brandenburg, 1872 (P. MAGNUS). — Sporulis fere pisciformibus a ceteris speciebus mihi notis facillime dignoscenda. — An *Stagonospora*?

77. **Hendersonia Brunaudiana** Sacc. et Roum. Rel. Lib. Ser. IV. n. 147. 2364
— Peritheciis dense gregariis, $\frac{1}{2}$ mill. diam., subcarbonaceis; spo-
rulis oblongo-fusoideis, utrinque obtusiusculis, leniter curvis, 3-
septatis, leniter constrictis, 15-20 \approx 5, dilute fuscis; loculis extimis
subhyalinis; basidiis 8-11 μ . longis.

Hab. in caule *Umbelliferarum* majorum, sociâ *Phoma herbarum* in Arduennis (LIBERT).

78. **Hendersonia Heraclei** Sacc. Mich. I. p. 213. — Peritheciis spar- 2365
sis, subcutaneo-erumpentibus, globosis, majusculis papillatis, atris;
sporulis cylindræis, utrinque rotundatis, 20-22 \approx 5, rectiusculis,
initio 4-guttulatis, dein 3-septatis, non constrictis, olivaceo-lute-
scentibus.

Hab. in caulibus putrescentibus *Heraclei Sphondylii*, Selva in Ital. bor., socio *Acrothecio caulium* Sacc.

79. **Hendersonia nobilis** Dur. et Mont. Fl. Alg., I. p. 570 Mont. Syll. 2366
n. 941, nec B. et C. (quæ *Diplodiella*). — Caulicola; peritheciis
sphæricis, caule atrato innatis tandem prominulis, ostiolo crasso

instructis, intus ceraceo-albis; sporulis subsessilibus cylindricis rectis utrinque obtusis, triseptatis, fuscis, 30-40 \approx 6-8.

Hab. in petiolis *Magydarios tomentosæ* Alger. (DURIEU).

80. **Hendersonia Solani** Karst. Hedw. 1884, p. 19. — Peritheciis sub- 2367
gregariis, per corticem erumpentibus, sphæroideis, ostiolo papillato, atris, mediocribus; sporulis oblongatis, utrinque obtusissimis, rectis vel flexuosis, 3-7, plerumque 3-septatis, ad septa non constrictis, dilute fuligineis, 12-22 \approx 4,5-6,5.

Hab. ad caules ramosque siccos *Solani Dulcamaræ* prope Aboa Fenniæ.

81. **Hendersonia Dulcamaræ** Sacc. Mich. I. p. 215. — Maculis are- 2368
scendo dealbatis, subcircularibus; peritheciis punctiformibus, paucis, lenticularibus, atris; sporulis cylindræis, 14 \approx 4, rectiusculis, 3-septatis, non constrictis, olivaceis.

Hab. in foliis *Solani Dulcamaræ*, Selva in Ital. bor.

82. **Hendersonia Letendreana** Sacc. I. p. 517. — Peritheciis globoso- 2369
depressis gregariis, subcutaneo-erumpentibus, 120-130 μ . diam., ostiolo impresso pertusis; contextu distincte celluloso, fulvo-fuligineo; sporulis cylindræo-curvulis v. subclavulatis, utrinque præcipue apice obtusis, 25-30 \approx 4, 3-4-septatis, non constrictis, melleis.

Hab. in caulibus *Convolvuli (Pharbitis)* culti, Rouen in Gallia (LETENDRE). — Affinis *Hendersoniæ pulchellæ* Sacc. Michel. p. 213, a qua sporulis minoribus et parcius septatis differt. — β . **muralis** Sacc. Mich. II. p. 111: peritheciis quandoque confluentibus, et tunc minoribus nempe 70 μ . diam., depresso-globosis; sporulis 20-25 \approx 2-3, cylindræo-clavulatis, curvulis 3-septatis dilute olivaceis, tandem ad septum medium lenissime constrictis. In caulibus *Parietariæ officinalis* in Gallia (BRUNAUD).

83. **Hendersonia lagenaria** Sacc. Mich. I. p. 212. — Peritheciis gre- 2370
gariis, globosis, majusculis, epidermide velatis, depresso-papillatis, hyphulis basi vestitis; sporulis oblongo-fusoideis, initio stipitellatis, continuis, hyalinis, dein 3- (raro 2-)septatis, 20-22 \approx 7, fuligineis; loculis extimis paullo pallidioribus.

Hab. in epicarpio putri *Lagenariæ vulgaris*, Padova in Ital. bor. — Verisimiliter *Sphæria mucosa* Kickx Fl. Fland, I. p. 345 n. 48 (non Pers. nec Fuck.) huc spectat.

84. **Hendersonia rupestris** Sacc. et Sp. Mich. I. p. 215. — Maculis 2371
amphigenis subcircularibus sinuosisque, arescendo candidis, fulvo-elevato-marginatis; peritheciis lenticularibus, punctiformibus, 100-110 μ . diam., late pertusis; contextu tenui membranaceo, celluloso,

dilute fuligineo; sporulis oblongo-fusoideis, 17-22 \approx 4 $\frac{1}{2}$ -6, curvulis, 3-septatis, ad septum medium constrictis, dilute olivaceis.

Hab. in foliis Capparidis rupestris, Susegana in Italia boreali (SPEGAZZINI).

85. **Hendersonia martialis** Speg. in Sacc. Mich. I. p. 484. — Peritheciis lenticulari-conoideis, minutis, 120-150 μ . d., sparsis, subepidermicis, ostiolo papilliformi vix exerto; contextu parenchymatico-celluloso, fusco-olivaceo; sporulis oblongo-ellipticis utrinque obtusiusculis, 2-3-septatis, ad septa plus minusve constrictis, pallide olivaceis, 12-18 \approx 5-6. 2372

Hab. ad caules emortuos Statices Limonii in Campo Martis Venezia Ital. bor.

86. **Hendersonia Polygoni** Rabh. in Bot. Zeit. 1851, p. 455. — Erumpens; peritheciis pertusis; nucleo diffluente; sporulis cylindraceutis v. clavatis 3-4-septatis, pedicellatis, olivaceis. 2373

Hab. in caulibus Polygonorum, Trieste in Istria (BIASOLETTO).

87. **Hendersonia peruviana** Speg. F. Arg. Pug. IV. n. 304. — Peritheciis epidermide velatis, lenticulari-depressis, 180-200 μ . d., subcollabascantibus, ostiolo minuto papilliformi pertusis, atris, membranaceis, contextu atro-fuligineo, subopaco; sporulis cylindraceuto-ellipticis, utrinque obtuse rotundatis, 5-septatis, ad septa constrictis 25 \approx 7, intense fuligineis. 2374

Hab. in caulibus dejectis emortuis Salicorniæ peruvianæ ad ripas lacunarum australium «las Saladas Grandes» dictas in Argentina. — An status stylosporicus *Pleosporæ Salsolæ* Fuck.?

88. **Hendersonia Lupuli** Moug. et Lév. in Ann. Sc. nat. 1846, p. 289. — Peritheciis confertis erumpentibus globosis nigris; ostiolis papillatis, demum deciduis; sporulis elongatis fusiformibus, 3-4-septatis plerumque curvatis, basidiis longiusculis suffultis. 2375

Hab. in sarmentis Humuli Lupuli, Bruyères in Vogesis, in Gallia. — An huc spectet *Hendersonia Humuli* Fr. S. Veg. Scand. p. 416, me latet.

D) In Monocotyledoneis et Acotyledoneis.

89. **Hendersonia Sabaleos** Ces. Hedw. 1882, pag. 10, Rabenh. F. E. n. 2661. — Peritheciis epidermide, quam stellatim findunt, obtectis, punctiformibus, contextu granuloso; sporulis cylindraceutis 3-septatis, utrinque obtusissimis, 12-16 \approx 5. 2376

Hab. in lamina exsiccata foliorum *Sabal Adansonii*, Napoli in Ital merid. (CESATI). — An *Stagonospora*?

90. **Hendersonia Sparganii** Niessl, Vorarbeiten Crypt. Mahren und 2377
 Oesterr. Schlesien p. 34. — Peritheciis minutis, sparsis, hemisphæ-
 ricis, atris, prominulo-innatis, papillatis; sporulis cylindricis, rectis
 vel curvatis, utrinque obtusiusculis, 3-septatis, 19 ≈ 3.

Hab. in foliis siccis *Sparganii ramosi*, Brünn in Moravia.
 — An *Stagonospora*?

91. **Hendersonia Typhæ** Oud. Mater. Flora mycol. de la Neerlande 2378
 II. p. 19. — Peritheciis nigris, centro poro pertusis; sporulis e
 facie interiore peritheciolorum prodeuntibus erectis, fuscis, fusiformibus,
 una extremitate obtusa, altera (inferiore) acutata, 6-locularibus,
 50 ≈ 7.

Hab. in caulibus *Typhæ angustifoliæ*, Achttienhoven in Neerlandia.

92. **Hendersonia Gladioli** Brunaud, in Roumeg. Revue Mycolog. — 2379
 Peritheciis innatis vel erumpentibus, nigris, globulosis, depressis;
 sporulis luteis, cylindricis vel cylindræo-fusiformibus, elongatis,
 10-12-septatis, 45-50 ≈ 2-3, guttulatis.

Hab. in caulibus emortuis *Gladioli culti*, Saintes in Gallia.

93. **Hendersonia Fourcroyæ** Thüm. Contr. Myc. Lusit. n. 346. — Peri- 2380
 theciis amphigenis, sparsis vel subgregariis, emersis, lenticularibus,
 aterrimis in foliorum partibus expallescentibus; sporulis cylindri-
 co-ellipsoideis, utrinque rotundatis, quadriseptatis, rectis, fuscis,
 10 ≈ 6; basidiis hyalinis, rectis brevibus.

Hab. in foliis aridis *Fourcroyæ giganteæ*, Coimbra in Lusitania.

94. **Hendersonia Yuccæ** Kickx Fl. cr. Flandr. t. I. p. 390. — Peri- 2381
 theciis punctiformibus, nigris, sparsis, immersis, globulosis, poro
 pertusis, tectis, maculas minutas nigras formantibus; sporulis ob-
 longis ellipticis, obtusis, initio hyalinis dein brunneis, 3-septatis.

Hab. in foliis *Yuccæ gloriosæ* et *filamentosæ* in Gallia et Belgio. — *Hendersoniæ puræ* Sacc. affinis videtur.

95. **Hendersonia pura** Sacc. Mich. I. p. 211. — Peritheciis remote 2382
 gregariis subcutaneis, globoso-depressis, papillulatis atris; sporu-
 lis ovato-oblongis, initio stipitellatis, continuis, hyalinis, dein 2-
 (raro 3-)septatis, 16-18 ≈ 7, loculis extimis subhyalinis, medio v.
 mediis fuliginis, ad septa vix constrictis.

Hab. in caule putrescente *Lilii candidi*, Selva in Ital. bor.

96. **Hendersonia Xerophylli** Ellis Bull. Torr. bot. Club. 1882, p. 74. 2383

— Peritheciis oblongis, epidermide elevata, nigrificata et longitrorsum fissa tectis; sporulis oblongis, obtusis, pallide brunneis, 1-3-septatis, septo ultimo plerumque dein evanescente.

Hab. in foliis Xerophylli asphodeloidis in Amer. bor.

97. **Hendersonia ruscicola** (Rabenh.) Sacc. *Sporocadus ruscicola* 2384
Rabh. Hedw. 1852, p. 287. — Peritheciis.....; sporulis rectis, cylindraceis vel fusiformibus, triseptatis, brevipedicellatis, fuscis; pedicello hyalino.

Hab. in ramis v. cladodiis Rusci in Germania.

98. **Hendersonia sessilis** Mont. Cent. VI. n. 31, I. c., pag. 44. Syll. 2385
n. 936. — Peritheciis seriatis minutis sphaericis, e rimis culmorum erumpentibus, punctiformibus atris, poro pertusis; sporulis oblongis obtusis vel utroque fine interdum attenuatis triseptatis, subsessilibus, tandem fuscidulis, 10 ≈ 3.

Hab. ad culmos exsiccatos Scirpi Holoschæni in Gallia australi (CASTAGNE). — An *Stagonospora*?

99. **Hendersonia riparia** Sacc. Mich. I. p. 124. — Peritheciis gregariis, tectis, globoso-lenticularibus, punctiformibus, 80-100 μ . diam., pertusis, contextu celluloso laxiusculo, ochraceo-fuligineo; sporulis cylindraceis, 40-45 ≈ 3 $\frac{1}{2}$ -4, curvulis, utrinque obtuse leniter attenuatis, 6-7-septatis, sæpius 7-8-guttulatis, flavidis, basidiis fasciculatis filiformibus, sursum attenuatis, 20-30 ≈ 2-3, hyalinis fultis.

Hab. in foliis, præcipue ad paginam infer. Caricis ripariæ ad Finkenkrug prope Spandau in Marchia Brandenburg (P. MAGNUS). — Peraffinis videtur *Stagonosporæ macropodi*, a qua sporulis distincte 6-7-septatis (nec tantum 3-6-guttulatis) flavidisque differt.

100. **Hendersonia commutata** Sacc. *Hendersonia elegans* Sacc. Myc. 2287
Ven. Spec. p. 199, nec Berk. (quæ *Stagonospora*). — Peritheciis innato-erumpentibus, globuloso-papillatis, nigris, subsparsis; sporulis elongato-fusoideis, majusculis, 10-12-septatis, fuliginis.

Hab. in culmis Zeæ Maydis, Padova in Italia boreali.

101. **Hendersonia eustoma** Sacc. Fungi ven. II. p. 319. — Peritheciis 2388
sparsis, erumpenti-superficialibus, minutis; sporulis elongato-fusoideis, curvulis, 30 ≈ 3, 3-septatis, lutescentibus.

Hab. in culmis pedunculisve Sorghi vulgaris, Treviso in Ital. bor. — Pycnidium *Leptosphaeriæ eustomæ*.

102. **Hendersonia arundinacea** (Desm.) Sacc. Mich. I. p. 211. *Sphaeria* 2389
arundinacea Desm. Obser. sur le *Sph. arund.* et *Godini* 1846, p. 46. — Peritheciis seriatis, compressiusculis, erumpenti-

bus; sporulis fusoides rectis curvulisve, 28-30 \approx 3 $\frac{1}{2}$, fuligineo-olivaceis 3-5-septatis.

Hab. in culmis Phragmitis communis in Gallia.

103. **Hendersonia minutissima** Sacc. *Hendersonia microscopica* Niessl. 2390
Hedw. 1878, pag. 176, nec Fr. — Peritheciis minutissimis, sparsis; sporulis clavato-fusiformibus, lutescentibus, 4-5-nucleolatis, 9-11 \approx 2.

Hab. in Apluda mutica in India orient.

104. **Hendersonia culmicola** Sacc. Mich. I. p. 210. *H. subseriata* Sacc. 2391
F. Ven. Ser. V. p. 207, nec Desm. — Peritheciis minutis, globoso-papillatis, nigris, innato-erumpentibus, sæpius seriatis; sporulis cylindræis, 28-32 \approx 4, 4-5-septatis flavis.

Hab. in vaginis Brachypodii pinnati et in culmis graminum minorum, Padova in Ital. bor., in Gallia. — Var. β . **intermedia** Sacc. F. Ven. Ser. II. p. 322: sporulis cylindræis, curvulis, 5-septatis, utrinque rotundatis, 25 \approx 3, flavidis. — Var. γ . **minor** Sacc. l. c.: sporulis ut præcedentis sed plerumque 3-septatis. — Utraque varietas in culmis variis minoribus in Italia boreali.

105. **Hendersonia culmiseda** Sacc. *Hend. culmicola* Cooke Præcur- 2392
sor Monogr. Hendersoniæ p. 23, nec Sacc. — Peritheciis.....; sporulis breviter lanceolatis, triseptatis, fuscis, 15 \approx 5.

Hab. ad Ammophilam et Phragmitem in Britannia(?).

106. **Hendersonia Phragmitis** Desm. 22 Not. p. 12. — Peritheciis in- 23 93
natis, minutissimis, 170 μ . diam., numerosis, sparsis, globosis, nigris, epidermide tectis; ostioliis erumpentibus, papillatis halone brunnea cinctis, demum deciduis; sporulis ovoideo-oblongis, 15-20 \approx 7, 3-septatis, fuscis.

Hab. in vaginis vetustis Phragmitis communis in Gallia.

107. **Hendersonia Fuckelii** Sacc. *Pleosporæ* (Leptosphæriæ) *arundinaceæ* 2394
pycnidium Fuck. Symb. p. 137. — Peritheciis innato-erumpentibus, sæpe cæspitulosis, papillatis; sporulis fusiformibus, curvatis, 3-4-septatis, 4-6-guttatis, 26-56 \approx 6, flavidis.

Hab. in culmis Phragmitis communis in Rhenogovia.

108. **Hendersonia Arundinis** Lib. in Roumeg. Revue Mycolog. (sub 2395
Sporocado) — Peritheciis immersis, sparsis, minutissimis, globosis, nigris, basi villosis, ostiolo punctiformi; sporulis oblongis, atris, 1-3-septatis, cirrose erumpentibus.

Hab. in culmis siccis Phragmitis communis prope Malmédy in Arduennis (LIBERT). — *Hendersonia neglecta* West., quam

Cooke in Grev. 1880, p. 83 huc ducit, diversa videtur et ob perithecia calva et ob sporulas hyalinas.

109. **Hendersonia rimosa** Lév. in Ann. Sc. Nat. 1846, p. 289. — Pe. 2396
 peritheciis sparsis, innatis, elongatis, compressis, nigris, epidermide
 fissa tectis; sporulis cylindricis, obtusis, 4-septatis («coloratis?»).

Hab. in culmis vetustis *Phragmitis communis*, Malesherbes in Gallia. — An *Stagonospora*?

110. **Hendersonia graminicola** Lév. Ann. Sc. Nat. 1846, V. 288. — 2397
 Peritheciis gregariis, minutis, innatis, globosis, intus nigris, apice
 pertusis; sporulis elongatis, 2-3 septatis, fuscis, $22 \approx 5$.

Hab. in foliis *Arundinis Epigejos*, Paris in Gallia, *Phragmitis communis*, Treviso in Ital. bor. et Neuchatel in Helvetia.

111. **Hendersonia vaginæ** (Rabenh.) Kalchbr. Szepesi Gomb. p. 268, 2398
 tab. II, f. 6. *Sphæropsis vaginæ* Rabenh. Bot. Zeit. 1858, p. 303.
 — Peritheciis minutis, punctiformibus, subinnatis, vertice subpromi-
 nulibus, sparsis; sporulis acrogenis, pedicello longo, filiformi thalamio
 affixis, quadrilocularibus, ad dissepimenta paullulum constrictis,
 sublunulatis, utrinque acutiusculis, hyalinis, demum fuscis.

Hab. in vaginis *Phragmitis communis* in Germania et Hungaria.

112. **Hendersonia crastophila** Sacc. Mich. I. p. 211. — Peritheciis 2399
 sparsis innato-erumpentibus, globulosis, papillatis, atris; sporulis
 bacillari-fusoideis, utrinque rotundatis, $35 \approx 5\frac{1}{2}$, 7-8-septatis, egut-
 tulatis, fuliginis.

Hab. in culmis *Phragmitis communis* in Ital. bor. — Var. β . **Cynodontis Dactyli**: sporulis similibus, $35 \approx 4$. — In ejusdem culmo in Italia bor. — ***H. juncicola** Sacc. Mich. II. p. 112. A typo præcipue differt sporulis angustioribus, nempe, $30-35 \approx 3\frac{1}{2}$, sed pariter 7-septatis, flavidis; peritheciis erumpentibus, globoso-depressis, vix papillatis, nigris, $\frac{1}{3}$ mill. diam. — In calamis *Junci effusi*, Saintes in Gallia (BRUNAUD).

113. **Hendersonia donacina** Mont. in Cast. Suppl. p. 61 et Syll. n. 2400
 942. — Epiphylla; peritheciis minutissimis sphaericis in folio de-
 coloranti-griseo gregariis, poro pertusis; sporulis fusiformibus rec-
 ctis aut incurviusculis septis 7 transversis divisis («coloratis?»).

Hab. in foliis *Arundinis Donacis* apud Montaud-lez-Miramas Galliae (CASTAGNE). — An *Stagonospora*?

114. **Hendersonia Donacis** Sacc. Mich. I. p. 211. — Peritheciis in- 2401
 nato-erumpentibus, remote gregariis e globoso longitudinaliter com-
 pressis, ostiolo brevissimo, obtuso; contextu minute parenchyma-

tico fuligineo; sporulis cylindræis utrinque obtuse rotundatis, 15-18 \approx 5, 3-septatis, ad septa vix constrictis, fuligineis.

Hab. in culmis emortuis Arundinis Donacis, Padova in Ital. bor., socio *Lophiostomate hygrophilo* Sacc., quocum forte metagenetice connexa est. Cum *Hend. donacina* Mont. non comparanda.

115. **Hendersonia Castagnei** Mont. Cent. VI. n. 33, l. c., p. 45 et 2402
Syll. n. 937 *Sphæria Miliæ-multiflori* Cast. Catal. p. 173. — Peritheciis immersis globoso-depressis minimis longitrorsum seriatis tectis, tandem denudatis opacis, ostiolo prominulo perforato; sporulis fusiformibus triseptatis fuscidulis pedicellatis, ad centrum versis, 15 \approx 5.

Hab. in culmis Miliæ multiflori in Gallia australi (CASTAGNE).

116. **Hendersonia effusa** B. et C. North Americ. Fungi n. 426^{bis}. — 2403
Peritheciis in maculas angustas elongatas congestis; sporulis oblongis leviter curvis triseptatis, 12-15 μ . longis («coloratis?»).

Hab. in culmis Aristidæ strictæ in Carolina super. — An *Stagonospora*?

117. **Hendersonia atramentaria** Schröt. Hedw. 1878, p. 173. — Pe- 2404
ritheciis globulosis, circ. 150 μ . diam., immersis, ostiolis erumpentibus prominulis, pseudo-stromate nigricante elliptico v. elongato, irregulari 1-3 mill. long. 1-2 lat. exceptis; sporulis lanceolatis v. ovato-fusoideis, 14-18 \approx 4,5-5,5, fusco-olivaceis, 3-6-nucleatis (an tandem septatis?); basidiis bacillaribus 60 μ . longis, hyalinis.

Hab. in foliis Glyceriæ aquaticæ et G. fluitantis in Germania.

118. **Hendersonia dispar** Mont. in Cast. Suppl. p. 63 et Syll. n. 943. 2405
— Epiphylla, gregaria; peritheciis minutis, epidermide tectis, sphaericis, prominulis, ostiolo annulari instructis; sporulis oblongis magnis, fuscis, triseptatis seu 4-ocularibus, quovis loculo guttulam globosam fovente.

Hab. in foliis Tritici gracilis in Gallia (CASTAGNE).

119. **Hendersonia microsticta** Berk. in Crypt. Antarct. p. 58 (Dia- 2406
gnosis nunc mihi desideratur).

Hab. in caule dealbato Chrysobactri Rossii in regione Antarctica.

120. **Hendersonia lichenicola** (Corda) Fr. S. V. S. p. 416 Kickx t. I. 2407
p. 391. *Sporocadus lichenicola* Corda Ic. III. p. 23, f. 65. *Sporocadus rosicola* Rabenh. Bot. Zeit. 1848, p. 294. — Peritheciis

sparsis, tectis, nigris, levigatis, globulosis dein depressis, minutis, poro pertusis; sporulis oblongis fusoides, 3-septatis, constrictis, fuscis; basidiis sporulam superantibus, bacillaribus hyalinis.

Hab. in apotheciis Lecidææ luteolæ, Gand in Belgio, et in ramis Rosæ caninæ, lichene affectis, in Bohemia.

II. *Sporocadus* Sacc. (nec Cordæ).

Perithecia majuscula, typice tecta; sporulæ amplæ.

121. **Hendersonia Carpini** Sacc. *Massariæ Carpini* pycnidium Fuck. 2408

Symb. p. 153. — Sparsa, gregaria, sub corticis epidermide nidulans; peritheciis orbicularibus, 1 mill. diam., depressis, villo olivaceo obsitis, vero antice glabris, atro-fuscis perforatisque; sporulis oblongis, utrinque obtusis vel basi oblique recte apiculatis stipitatisve, 1-7-ocularibus, septis obscuris, aureo-flavis, 52 ≈ 14.

Hab. in ramis siccis corticatis Carpini Betuli in Rhenogovia.

122. **Hendersonia carpinicola** Sacc. *Massariæ carpinicolæ* pycni- 2409

dium Fuck. Symb. p. 152. — Peritheciis subcutaneis, gregariis, globoso-depressis; sporulis oblongo-ovatis, utrinque subapiculatis attenuatisve, stipitatis, distincte 4-5-septatis, fuscis, 40 ≈ 16.

Hab. in ramis corticatis Carpini Betulii in Rhenogovia.

123. **Hendersonia loricata** Sacc. et Roum. in Mich. II. pag. 629. — 2410

Peritheciis gregariis innato-erumpentibus, corticis globulosis, pertusis, $\frac{1}{3}$ - $\frac{1}{2}$ mill. diam.; contextu minute parenchymatico fuligineo; sporulis ovoideo-obpiriformibus, 22-28 ≈ 15-16, apice rotundatis, 2-3-septatis, non constrictis, fuligineis initioque guttulatis, basidiis filiformibus, 10-15 ≈ 2, hyalinis suffultis.

Hab. in ramis corticatis fagineis, Saintes in Gallia (BRUNAUD). — Probabiliter pycnidium *Massariæ loricatæ* Tul.

124. **Hendersonia Desmazieri** Mont. Cent. VI. n. 92, l. c. XII. p. 310 2411

(1848-49) *Stagonosporium Platani* Preuss (1853) *Hendersonia Platani* Peck (serius). — Peritheciis immersis cortice semper tectis adhærentibusque, crassis, globoso-depressis, confluentibus, atris, intus griseis, initio papillatis, tandem poro centrali pertusis; sporulis obovatis tandem brunneis, 40-45 ≈ 20, 4-nucleatis, 3-septatis, basidiis brevibus oblongis conoideisve hyalinis fultis, denique erumpendo atro-inquinantibus.

Hab. in ramis corticatis Platani orientalis et occidentalis in Gallia, Italia bor., Germania, America septentr. — Pycnidium *Massariæ Platani* Ces.

125. **Hendersonia ulmicola** Cooke Præcurs. Monogr. Henders. p. 24. 2412

— Peritheciis majusculis, tectis, obtusis; sporulis ellipticis, triseptatis, constrictis, brunneis, 50 ≈ 20.

Hab. ad ramulos Ulmi in consortio *Massariæ fœdantis*, cujus forte pycnidium, in Britannia.

126. **Hendersonia epileuca** C. et Ellis in herb. et Præcursor Monogr. 2413
Henders. p. 24. — Peritheciis majusculis, tectis, obtusis, atris; sporulis late lanceolatis, 5-septatis, brunneis, 80 ≈ 20-22.

Hab. ad ramulos Mori in consortio *Massariæ epileucæ*, cujus probabiliter pycnidium, in America boreali.

127. **Hendersonia polycystis** B. et Br. Ann. N. H. n. 415. — Peri- 2414
theeciis globosis, floccis cinereis dense tectis; sporulis latis oblongo-ellipticis, plurilocularibus, gelatina involutis, basidiis septatis suffultis.

Hab. in ramulis siccis Betulæ in Britannia. — Pycnidium *Pseudovalsæ lanciformis*.

128. **Hendersonia magnata** B. et Cooke in Berk. herb. Cooke Præ- 2415
cursor Monogr. Henders. p. 24. — Peritheciis.....; sporulis elongato-ellipticis, multinucleatis, dein 5-septatis, brunneis, 40-45 ≈ 13.

Hab. ad ramulos decorticatos in Hungaria.

III. *Hendersoniella* Sacc.

Perithecia epixyla subsuperficialia.

129. **Hendersonia quercina** Sacc. Mich. I. p. 213. — Peritheciis li- 2416
gno immersis, globulosis, atris; sporulis cylindræo-oblongis, utrinque rotundatis, 16-18 ≈ 3½-4, rectis v. leniter curvis, initio continuis guttulatis, dein 3-septatis, non constrictis, olivaceo-fuscis, denique e perithecio expulsis lignumque olivaceo-fœdantibus.

Hab. in ligno putrescente quercino, Selva in Ital. bor. rarius.

130. **Hendersonia trabicola** Sacc. *Teichosporæ trabicolæ* Fuck. py- 2417
cnidium Fuck. Symb. p. 161. — Peritheciis gregariis, erumpentibus, globosis, majusculis, obtusis, nigris, ostiolo obsoleto; sporulis oblongis, utrinque obtusis, quandoque curvatis, triseptatis, fuscis, 14 ≈ 4.

Hab. in asscribus *Quercus* in Rhenogovia.

131. **Hendersonia eximia** B. et C. North Americ. Fungi n. 424. — 2418
Peritheciis congestis seriatis; sporulis utrinque obtusis biseptatis, 25-30 ≈ 10-11.

Hab. in ligno denudato et superficie albo-maculato *Caryæ* in Carolina inf. — An *Stagonospora*? — Sporulæ rarius tantum 1-septatæ.

132. **Hendersonia? constricta** B. et Br. F. of Ceyl. n. 795. — Pe. 2419
 ritheciis subglobosis pruinatis, basi floccis radiantibus suffultis;
 sporulis metulæformibus uniseptatis, medio constrictis 22 μ . longis.

Hab. in ligno emortuo in insula Ceylon. — An *Diplodiella?*
 an *Stagonospora?*

133. **Hendersonia lignicola** (Pr.) Sacc. *Sporocadus lignicola* Pr. F. 2420
 Hoyersw. in Linnæa 1852, p. 78. — Punctiformis, basi lignum
 penetrante, atra; peritheciis semiimmersis obtusis, ostiolo perfora-
 to; sporulis oblongis didymis rarius tridymis, fuscis.

Hab. in ligno excorticato Mali, Hoyerswerda. — «An *Diplodiella?*»

COUTUREA Cast. Cat. Pl. Mars. p. 192, Desm. 13 Not. p. 65. (Etym.
 a botan. gall. *COUTURE?*). — Perithecia superficialia, globosa, atra,
 membranacea, areolato-contexta, astoma, irregulariter rupta, hy-
 phis stromaticis stellatim repentibus, ramosis, gonidioideis basi cin-
 cta. Sporulæ ovato-oblongæ, 1-3-septatæ, olivaceo-brunnæ. — Vi-
 deretur quasi *Meliola* ascis carens.

1. **Couturea Castagnei** Desm. l. c. *C. elæanema* et *C. Rosmarini* 2421
 Cast. l. c. — Peritheciis sparsis, minutissimis, nigris, 60-70 μ . d.;
 sporulis numerosis, ovoideo-oblongis, utrinque obtusis, olivaceo-
 brunneis, 2-3-septatis, rarius 1-septatis, 10-14 μ . longis.

Hab. in pag. inf. foliorum vivorum vel languescentium Oleæ
 et Rosmarini in Gallia et Italia. — Forma in Rosmarino
 præbet sporulas plerumque 3-septatas.

ANGIOPOMA Lév. Ann. Sc. Nat. 1841, p. 235. (Etym. *angeion* vas,
 et *poma* operculum). — Perithecia membranaceo-subcornea, cya-
 thiformia, ore circulari dehiscentia, epiphragmate pallido fugaci,
 tecta. Sporulæ fusoidæ, 4-6-septatæ, fuscæ, hyalino-stipitatæ.

1. **Angiopoma campanulatum** Lév. l. c. — Peritheciis gregariis obco- 2422
 nico-elongatis, atris, hirtis, 3-4 mill. altis; sporulis fasciculatis,
 rectis curvulisve, apice obtusis, medio inflatis, 5-6-septatis, brun-
 neis; basidiis cylindricis, continuis, hyalinis, sporulam æquantibus.

Hab. ad semina Bromi sterilis, Versailles in Gallia.

LICHENOPSIS Schw. Syn. North Amer. Fungi p. 308, n. 3098, tab.
 XIX. fig. 6. (Etym. *lichen*, cujus habitum subinde refert), *Phæo-*
bolus Fr. Summa Veg. Scand. p. 416. — Perithecia immersa, cir-
 cumscissa, operculo deciduo tecta, nucleo libero demum sicco re-

jecto, cupulam vacuum relinquentia. Sporulæ ellipsoideo-oblongæ, septatæ, fuscæ, basidiis bacillaribus hyalinis, septatis suffultæ.

1. **Lichenopsis sphæroboloidea** Schw. l. c. — Peritheciis ligno vel cortice immersis, 2 mill. diam., intus tapetio pallide luteo subcarnoso vestitis, extus pallidis, per crustam albescentem subdeterminate effusam (propriam?) erumpentibus; basidiis sporulâ (ex icone) 6-8-plo longioribus.

Hab. in ligno et cortice ramorum Corni floridæ et Celtidis, Bethlehem in America bor. — Maculas lichenosas (unde nomen) 5 cent. latas format.

CRYPTOSTICTIS Fuck. in Fung. Rhen. n. 1838 (Etym. *cryptos* absconditus, et *Stictis*), *Dochmolpho* Cooke Præc. Henders. p. 25. — Perithecia erumpentia, globosa vel depressa, pertusa, subinde spuria. Sporulæ oblongæ 2-pluriseptatæ, utrinque 1-aristatæ, fuscæ, longiuscule hyalino-stipitatæ. — Est fere *Hendersonia* sed sporulis ciliatis.

1. **Cryptostictis Cynosbati** (Fuck.) Sacc. *Hendersonia Cynosbati* Fuck. Symb. p. 392, tab. IV. fig. 23. — Peritheciis spuriis hemisphæricis, atris, tectis, demum erumpentibus; sporulis pedicellatis oblongis, utrinque parum attenuatis vel rotundato-obtusis, curvatis, 3-septatis, pallide flavis, 14-15 = 5-6, utrinque sub apice ciliis sporulâ sublongioribus.

Hab. in fructibus siccis adhuc stantibus Rosæ pimpinellifoliæ vel spinosissimæ in Rhenogovia et Bavaria.

2. **Cryptostictis hysteroioides** Fuck. F. Rhen. n. 1838, *Hendersonia hysteroioides* Fuck. Symb. p. 392, t. IV. f. 24. — Peritheciis spuriis gregariis, innatis, ellipticis, lineam longis, atris, parallele dispositis, demum rima oblongo-lineari dehiscentibus, disco carnoso, excavato; sporulis pedicellatis, ovatis, subinæquilateralibus, utrinque attenuatis, antice plerumque obtusioribus, 3-septatis, rarius 1-2-septatis, flavis, loculis 2 ultimis pallidioribus, utrinque in latere ciliis sporulam æquantibus, 16 = 7 (sine ciliis).

Hab. in sarmentis corticatis siccis Vitis viniferæ prope Budenheim Rhenogoviæ.

3. **Cryptostictis ilicina** Sacc. M. V. n. 327 et F. Ven. Ser. V. p. 198 (sub *Pestalozzia*). — Maculis exaridis, albidis, angulosis; pseudo-peritheciis lentiformibus, membranaceis, astomis, erumpentibus; sporulis ovoideis, 15 = 7, 5-ocularibus, loculis extimis oblique 1-aristatis, hyalinis, ceteris fuliginis stipite filiformi, 30 = 1 $\frac{3}{4}$, hyalino.

Hab. in foliis languidis *Quercus Ilicis*, Arco (Trentino) in Italia boreali.

4. **Cryptostictis Mariæ** (Clinton) Sacc. *Pestalozzia Mariæ* Clinton in 2427
Peck Rep. on the St. Mus. N. Y. t. 2, f. 1-2. — Maculis aridis, brunneis vel cinerescentibus, brunneo-marginatis; pustulis (peritheciis) minutis, sparsis, erumpentibus, nigris, cuticula stellatim rupta cinctis; sporulis fusiformibus, 5-septatis, loculis 4 intermediis fuliginosis, loculis extimis hyalinis aristisque, 17-25 μ . long. (sine aristis).

Hab. in foliis *Rhododendri maximi*, Buffalo et Forestburgh in America bor.

5. **Cryptostictis Loniceræ** (Thüm.) Sacc., *Hendersonia Loniceræ* 2428
Thüm. M. U. n. 578, nec Fr., *Dochmolopha Loniceræ* Cooke Præc. Hend. p. 25. — Peritheciis innato-erumpentibus, globoso-depressis, spuriis, nigris, haud papillatis, seriatis; sporulis breve fusoides, 3-septatis, 12-15 \approx 4 (sine ciliis), loculis interioribus olivaceis, extimis hyalinis oblique 1-aristatis, aristis hyalinis, 10-15 \approx 1; pedicellis filiformibus, sæpe ramosis, prælongis 30-40 μ . longis, hyalinis.

Hab. in ramulis corticatis *Loniceræ tataricæ*, Bayreuth in Bavaria. — Diagnosim ex ipsis exemplaribus Thümenianis concinnavi. — Nuclei definiti globosi, sed membrana perithecii imperfecta.

6. **Cryptostictis caudata** (Preuss) Sacc. *Sporocadus caudata* Preuss 2429
Hoyersw. n. 153. — Erumpens; peritheciis exiguis; ostiolis perforatis, tum reclusis, discoideis, angulatis vel oblongis depressis, atris; basidiis pedicelliformibus, albis, simplicibus continuis; paraphysibus intermixtis; sporulis dilute fuscis, subclavatis, diaphanis, transverse septatis, apiculis et basibus albis, in apiculo longo filo ornatis.

Hab. in ramis dejectis *Rosæ*, in hortis, Hoyerswerda.

PROSTHEMIUM Kunze Myk. Heft I. p. 17, t. I., f. 10. (Etym. *prosthema* appendix). — Perithecia tecta, carbonacea, globoso-depressa, atra. Sporulæ teretiusculæ, pluriseptatæ, in capitula stellatim conjunctæ, coloratæ. Basidia obsoleta vel filiformia.

1. **Prosthemium betulinum** Kunze Myk. Heft I. p. 17. t. I., f. 10. — 2430
Peritheciis subsolitariis, lenticularibus, cortice nidulantibus, poro pertusis; sporulis obclavatis, 40-50 \approx 15, 2-4, basi stellatim coalitis, dilute fuliginosis, 3-4-septato-nucleatis, nucleis pallidis; hyphulis

filiformibus, 6-7 μ . cr., guttulis basi ornatis, media longiori, pedunculari; paraphysibus subinde intermixtis.

Hab. in ramis corticatis Betulæ albæ in Gallia, Germania, Britannia, Italia. — Pycnidium *Massariæ sipariæ*.

2. **Prosthemium stellare** Riess, in Bot. Zeit. 1853, pag. 130, tab. III, 2431 fig. 28-31. — Peritheciis sublenticiformibus, nigris, poro pertusis, tectis; sporulis tereti-obclavatis, 3-4-septatis, fuligineis apice pallidioribus, 12-20, basi stellatim coalitis, demum cirrose propulsis, 26-28 μ . longis.

Hab. in ramis corticatis Alni glutinosæ in Germania et Britannia.

HENDERSONULA Speg. Fungi Arg. Pug. II. n. 127. (Etym. ab *Hendersonia*, Ad the *cujus sporulas refert*). — Stromata innata vel erumpentia atra, ostioli punctiformibus non vel vix notata, orbicularia vel difformia intus locellos pallidiores sporuliferos gerentia. Sporulæ ellipticæ, pluriseptatæ, coloratæ, typice stipitatæ. — Est quasi *Hendersonia* stromate *dothideaceo* ornata.

1. **Hendersonula australis** Speg. F. Arg. Pug. II. n. 127. — Stromatibus orbicularibus vel confluenso difformibus, dense sparsis, epiphyllis, maculis nullis insitis, levibus vel rugulosis, atris, $\frac{1}{2}$ - $1\frac{1}{2}$ mill. d.; loculis dothideaceis, constipatis, primo albis dein olivaceis, minutis, 80-90 μ . d.; sporulis ellipticis vel fusoideis, utrinque plus vel minus rotundatis, 2-3-septatis, ad septa constrictis, dilute olivaceis, 14-20 = 4-5. 2432

Hab. ad folia viva Solani boerhaviæfolii in sepibus del Riachuelo in Argentina. — Sporulæ protrusæ stromata pulvere olivaceo obducunt.

2. **Hendersonula morbosa** Sacc. Cfr. Farlow Black Knot p. 440, t. V. 2433 f. 4-5. — Stromate maximo globoso-colliculoso, confluenso elongato, erumpenti-superficiali, extus atro et ob perithecia prominula inæqualiter papilloso; peritheciis seu loculis globosis, intus pallidioribus; sporulis ellipsoideis, utrinque rotundatis, 3-septatis, non constrictis, 12 = 6, dilute flavidis; basidiis filiformibus sporulâ duplo vel triplo longioribus.

Hab. in ramis adhuc vivis Prunorum variorum in America boreali. — Sistit pycnidium *Plowrightiæ morbosæ*. Cfr. Syll. II. p. 638.

STAGONOSPORA Sacc. ut subg. *Hendersoniæ*, Mich. II. p. 8. (Etym. *stagon* gutta, et *spora*). *Hendersoniæ* sectio *Sphaerospora* Desm.

p. p. 17 Not. p. 16. — Perithecia innata vel erumpentia, globosa, sæpius papillato-pertusa, atra, membranacea vel subcarbonacea. Sporulæ ellipsoideæ vel elongatæ, typice 2-pluriseptatæ guttulatæque hyalinæ, rarius tantum 2-pluriguttatæ, nec distincte (ob immaturitatem?) septatæ. — Est *Hendersonia* hyalophragmia.

I. In Dicotyledoneis.

1. **Stagonospora innumerabilis** Fuck. Symb. p. 116 (Psilothecium). — 2434
Peritheciis densissime effuso-gregariis, subcutaneis, punctiformibus, fusco-nigris; sporulis cylindræo-fusoideis, curvis, 6-7-septatis, hyalinis, $44 \approx 4$.

Hab. in alis caulis *Cytisi sagittalis*, socio st. ascophoro seu *Anthostomella Cytisi*, prope Æstrich Rhenogoviæ. — «Ad *Septoriam* vergere videtur».

2. **Stagonospora hortensis** Sacc. et Malbr. Mich. II. p. 629. — Pe- 2435
ritheciis gregariis, epidermide velatis, globoso-lenticularibus, $\frac{1}{4}$ mill. diam., tenui-membranaceis, latiuscule pertusis; sporulis cylindræo-oblongis, leniter curvulis, utrinque rotundatis, 4-guttulatis, denique 3-septatis, haud constrictis, 18-22 \approx 7, hyalinis.

Hab. in caulibus *Phaseolorum* in cultis prope Rouen Galliæ (MALBRANCHE). — *Stagonospora Malbrancheana* Mich. II. p. 629, speciminibus perfectioribus observatis, ascos præbuit, et revera ad *Metasphaerium lejustegam* verisimiliter spectat.

3. **Stagonospora Mespili** (West.) Sacc. *Hendersonia Mespili* West. 2436
Bull. ac. roy. belg. II. ser. t. 12. n. 7. — Maculis epiphyllis, sparsis vel confluentibus, rotundatis irregularibusve, brunneis, centro pallescentibus; peritheciis paucis, minutis, nigris, sparsis; sporulis hyalinis, ovalibus, piriformibus, 3-septatis.

Hab. in foliis *Mespili* in Belgio.

4. **Stagonospora prominula** (B. et C.) Sacc. *Hendersonia prominula* 2437
B. et C. North Amer. Fungi n. 429. — Peritheciis sparsis punctiformibus, prominulis; sporulis hyalinis, breviter clavatis, triseptatis, $10\frac{3}{4}$ -18 μ . longis, subinde curvulis.

Hab. in foliis *Piri Mali* in Carolina infer.

5. **Stagonospora microscopica** (Fr.) Sacc. *Sphaeria microscopica* Fr. 2438
Syst. II. p. 476. Fuck. Symb. p. 275, t. IV. f. 53. — Sparsa, atra; peritheciis nudis minimis ovatis, ostiolo subulato stricto breviusculo; sporulis anguste fusiformibus, rectis curvatisve, 8-10-septatis, 24 \approx 2-3, hyalinis.

Hab. ad cortices et ramos subvivos vel putrescentes e. g. Ber-

beridis, Hederæ in Suecia, Germania, Gallia. — Nudo oculo haud conspicua: perithecia innato-nuda, glabra, levia, ostiolo vix longiore.

6. **Stagonospora turgida** (B. et Br.) Sacc. *Cryptosporium turgidum* 2439
B. et Br. Ann. N. H. n. 1899. — Peritheciis globosis, sat prominulis, obtusis; sporulis curvis, utrinque obtusis, tenuiter 3-septatis, 20 \approx 5.

Hab. in ramis Fraxini, Twycross Britanniaë (A. BLOXAM).

7. **Stagonospora microspora** (B. et C.) Sacc. *Hendersonia microspora* 2440
B. et C. North Amer. Fungi n. 430. — Peritheciis sparsis e basi latiusculâ acutis, demum liberis, exiguis; sporulis minutis, hyalinis, angustis, breviter fusiformibus, trinucleatis, demum probabiliter 2-septatis.

Hab. in Sambuco canadensi in Carolina super.

8. **Stagonospora cæspitosa** (B. et C.) Sacc. *Hendersonia cæspitosa* 2441
B. et C. North Americ. Fungi n. 427. — Peritheciis cæspitosis, minutis, brunneolis; sporulis breviter fusiformibus curvulis triseptatis, 25 μ . longis.

Hab. in ramulis tenellis Sambuci? New England Amer. sept. 2442

9. **Stagonospora Evonymi** Sacc. *Gibberellæ Evonymi* pycnidium
Fuck. Symb. p. 167. — Peritheciis cæspitosis, levibus, astomis, ovatis; sporulis in gelatina rosea expulsis, oblongis, 1-4-septatis, quandoque ad septa constrictis, hyalinis, 20-24 \approx 6.

Hab. in ramis corticatis Evonymi europæi in Rhenogovia.

10. **Stagonospora hyalospora** (Berk.) Sacc. *Hendersonia hyalospora* 2443
Berk. Fl. New Zeal. p. 194, tab. CVI. fig. 8. — Peritheciis punctiformibus, nitidis, subastomis; sporulis linearibus, brevibus, hyalinis, triseptatis, 23-27 \approx 4.

Hab. in cortice Oleæ, Tehawera Novæ Zelandiæ (COLENZO). — Maculas minutas format supra corticem.

11. **Stagonospora herbarum** (Cooke et Harkn.) Sacc. *Hypocenia herbarum* 2444
C. et H. in Grevill. 1881, p. 82. — Caulicola, erumpens; peritheciis atris, obtusis, in lineas dispositis; sporulis subclavatis, hyalinis, bi-trinucleatis, demum uni- vel biseptatis, 18 \approx 3,5.

Hab. in caulibus Asteris in California. — Habitus fere *Diaporthes* cujusdam, ad quam forte metagenetice pertinet.

12. **Stagonospora Senecionis** Sacc. *Pleosporæ Senecionis* pycnidium. 2445
Fuck. Symb. p. 136. — Peritheciis minutis, gregariis, deplanatis, papillatis, ostiolo perithecium æquante; sporulis minutis cylindraceis, 3-septatis, hyalinis.

Hab. in caulibus siccis Senecionis nemorensis prope Æstrich Rhenogoviæ.

13. **Stagonospora caulicola** (Desm.) Sacc. *Hendersonia caulicola* 2446
Desm., Kieckx Fland. t. 1, p. 390. — Peritheciis minutis, $\frac{1}{5}$ - $\frac{1}{4}$ mill. diam., numerosis, tectis, nigris, convexis astomis, rotundatis, dein collabascens; sporulis oblongis, rectis, obtusis, 2-3 nucleatis vel septatis, 15 μ . longis, basidiis brevibus crassis suffultis.

Hab. in caulibus siccis Polygoni Persicariæ aliarumque specierum in Belgio et Gallia.

14. **Stagonospora Lambottiana** Sacc. Misc. Myc. F. Belg. n. 11. — 2447
Peritheciis erumpenti-subsuperficialibus, globoso-depressis, vertice tandem (collabascendo?) excavatis, subastomis, atro-olivaceis $\frac{1}{4}$ - $\frac{1}{3}$ mill. diam., contextu subprosenchymatico olivaceo-fusco; sporulis cylindræis, curvulis, utrinque rotundatis, 14-18 \approx 3-4, 3-septatis, non constrictis, hyalinis; basidiis dense fasciculatis, cylindricis, varie furcatis v. ramosis, 25-30 \approx 2, hyalinis.

Hab. in trunco ramisque corticatis emortuis Callunæ vulgaris, Verviers in Belgio (LAMBOTTE). — In genere anceps, quia perithecia subastoma et fere pezizoidea.

15. **Stagonospora collapsa** (C. et Ellis) Sacc. *Hendersonia collapsa* 2448
C. et Ellis, New Jersey Fungi in Grev. V. p. 30. — Peritheciis sparsis, globosis, demum collapsis, cupulæformibus, atris, erumpentibus; sporulis fusiformibus, triseptatis, hyalinis, 25 \approx 5.

Hab. in ramis Aceris, New Jersey in Amer. bor.

16. **Stagonospora delicatula** (C. et E.) Sacc. *Hendersonia delicatula* 2449
C. et Ell. in Grevillea, t. 96, f. 26. — Gregaria; peritheciis subglobosis, atris, prominulis, erumpentibus, epidermide cinctis; sporulis subfusiformibus, hyalinis, nucleatis, dein tenuiter 3-septatis, 20 \approx 4.

Hab. in ramis Nyssæ, New Jersey Amer. bor.

17. **Stagonospora Populi** (Corda) Sacc. *Hendersonia Populi* (Corda) 2450
Lév. Ann. Sc. Nat. 1846, p. 288. *Sporocadus Populi* Corda Icon. Fung. III. p. 39, f. 109. — Gregaria, epidermide tecta; peritheciis solitariis, minutis, planis, atris, vertice dein ruptis; sporulis oblongis, subclavatis, supra obtusis, 5-cellulosis, albis, diaphanis, 20-23 μ . longis.

Hab. in ramis putrescentibus Populi pyramidalis et P. tremulæ in Bohemia.

18. **Stagonospora sibirica** Sacc. Mich. II. p. 142. (sub *Hendersonia* 2451

sibirica). — Peritheciis e basi infossa subsuperficialibus, laxe gregariis, globoso-depressis, obtusiuscule papillatis, nigris, nitidulis $\frac{1}{4}$ mill. diam.; contextu minute sed distincte parenchymatico, fuliginoso; sporulis oblongo-cylindræis, utrinque rotundatis, 28-30 = 9-10, rectis curvulisve, 3-septatis non constrictis, 4-guttatis, hyalinis, basidiis filiformibus triplo brevioribus suffultis.

Hab. in ramis induratis decorticatis arboris frondosæ, Minusinsk in Sibiria.

19. **Stagonospora Arcus** (B. et Br.) Sacc. *Hendersonia Arcus* B. et Br. Ann. N. H. n. 413. — Peritheciis gregariis dein nudis, globosis nigris; contextu chalybeo-azzeo; sporulis arcuatis, medio incrassatis, triseptatis, hyalinis; basidiis ramulosis.

Hab. in ramis Buxi sempervivis, Batheaston in Anglia. — Forte pycnidium *Gibberellæ*.

20. **Stagonospora allantella** Sacc. Mich. I. p. 517 (sub *Hendersonia*). — Peritheciis gregariis, innato-erumpentibus, subglobosis, minutis, atris; sporulis fasciculatis, cylindræis, curvulis, utrinque rotundatis, 5-6-septatis, 6-7-guttatis, 35-45 = 4-5, hyalinis.

Hab. in cortice levi Coryli (an Cerasi?) pr. Rouen in Gallia (LETENDRE).

21. **Stagonospora unica** (Cooke) Sacc. *Hendersonia unica* Cooke Præc. Monogr. Henders. p. 24. — Peritheciis.....; sporulis late lanceolatis, medio constrictis, 3-6-nucleatis, demum 1-5-septatis, hyalinis, ocellatis, interdum cristatis, 40-50 = 20.

Hab. ad lignum in Britannia (?). — Est massarioidea, teste Cooke, sed certe recedit quia epixyla et hyalospora.

22. **Stagonospora oppilata** (Fr.) Sacc. *Hendersonia oppilata* (Fr.) Curr. Simpl. Sphær. n. 336, fig. 114, *Sphæria oppilata* Fr. S. M. II. p. 493. — Sparsa, erumpens; peritheciis globosis levibus astomis nigris, nigrofaretis, ostiolo rimoso; sporulis amygdaliformibus, hyalinis, 7,5-10 μ . longis, endrochromate bipartito.

Hab. in virgultis Betularum in Suecia. — «An potius *Diplodina*?» Majuscula, opaca, atra, ad dimidium prominens, primo farcta, ut *Sclerotium*, dein intus mollior, tremellosa et diffuens.

23. **Stagonospora Lophiostoma** (C. et E.) Sacc. *Hendersonia Lophiostoma* C. et E. in Grevillea t. 95, fig. 10. — Peritheciis erumpentibus, atris, lateraliter compressis; ostiolis elongato-fissis; sporulis clavatis, 1-3-septatis, hyalinis, longitudine variis, 15-30 = 10.

Hab. in ramis Ulmi, New Hampshire, New Jersey in America boreali (J. BLAKE).

24. **Stagonospora strobilina** (Curr.) Sacc. *Hendersonia strobilina* 2457
Curr. in Trans. Linn. Soc. XXII. p. 329. Cooke Handb. Brit. Fungi
p. 932. — Peritheciis gregariis, irregularibus; sporulis amygdali-
formibus, hyalinis, endochromate bipartito.

Hab. in squamis aridis conorum Pini maritimæ, Coimbra
in Britannia et Lusitania. — An potius *Psilospora*? An pycnidium
Dichæne strobilinæ Fr.?

II. In Monocotyledoneis et Acotyledoneis.

25. **Stagonospora Smilacis** (Ellis et Mart.) Sacc. *Ascochyta Smila-* 2458
cis Ell. et Mart. Amer. Nat. 1882, p. 100. — Maculis pallidis,
rotundatis, brunneo-cinctis; peritheciis nigris, globosis, innatis, epi-
phyllis, 140 μ . diam.; sporulis subhyalinis, ovatis, triseptatis, 11-
22 = 6-7.

Hab. in foliis Smilacis rotundifoliæ, Concord in Pen-
sylvania.

26. **Stagonospora Heliconiæ** (Mont.) Sacc. *Hendersoniæ Heliconiæ* 2459
Mont. Syll. n. 944. — Hypophylla, innata, cæspitosa; peritheciis
ovoideis tenuissimis, stromati grumoso pallido immersis, ostiolo pro-
minulo; sporulis cymbiformibus hyalinis, triseptatis, breviter pedi-
cellatis.

Hab. in foliis Heliconiæ prope Cayennam (LEPRIEUR).

27. **Stagonospora Musæ** (Cooke) Sacc. *Hendersonia Musæ* Cooke in 2460
Rav. Amer. Fungi n. 781. Grev. XII. p. 24. — Sparsa, tecta, pun-
ctiformis; peritheciis parvulis, subglobosis, fuscis; sporulis lanceo-
latis, triseptatis, hyalinis, 12 = 4.

Hab. in Musa (*Banana*), Darien, Georgia Amer. bor.

28. **Stagonospora cylindrocarpa** (Ell. et Everhart) Sacc. *Henderso-* 2461
nia cylindrocarpa Ell. et Everhart in litt. — Peritheciis sub-
membranaceis, subcuticularibus, convexis, subelongatis contextu
grosse celluloso; ostiolis minutis papilliformibus; sporulis copiosis,
cylindricis hyalinis v. hyalino-flavidis, utrinque obtusis, 3-4-nu-
cleatis (tandemque septatis?), 13-15 = 3 $\frac{1}{4}$ -4.

Hab. in scapis emortuis Brodiææ Howellii pr. Washington
Amer. bor. (W. N. SUKSDORF).

29. **Stagonospora macrospora** (Dur. et M.) Sacc. *Septoria macro-* 2462
spora Dur. et Mont. Syll. p. 277. *Hendersonia piptarthra* Sacc.
Mich. II. p. 111. *Hend. Montagnei* Cooke Præc. Hend. p. 19. —
Amphigena; peritheciis immersis pachydermis, globosis, atris, epi-
dermide tectis; sporulis maximis, cylindræo-subclavatis, 3-5-se-

ptatis, 60-70 \approx 10-12, articulis tandem solubilibus, v. saltem 3-4-nucleatis, subhyalinis.

Hab. in foliis emarcidis Agaves, Algeria in Africa (DURIEU), in Gallia (ROUMEGUÈRE).

30. **Stagonospora Asphodeli** (Mont.) Sacc. *Ascospora Asphodeli* Mont. 2463

Syll. p. 274. *Hendersonia Asphodeli* (Mont.) Sacc. Mich. II. p. 280.

— Peritheciis epidermide innatis subtectis globoso-ovoideis sparsis, ostiolo prominulo, atro-albo pulverulento; sporulis tereti-oblongis 20-25 \approx 7-8, utrinque rotundatis, crasse 3-guttulatis, tenuiterque 2-septatis, hyalinis.

Hab. in caulibus et foliis Asphodeli fistulosi, A. albi, in Gallia et in Ital. boreali.

31. **Stagonospora Curtisii** (Berk.) Sacc. *Hendersonia Curtisii* Berk. 2464

in herb. Curt., Cooke Præcursor Monogr. Henders. p. 19. — Peritheciis.....; sporulis elongato-ellipsoideis, demum biseptatis, 17-21 \approx 7,5.

Hab. in Narcisso in America boreali (?).

32. **Stagonospora Typhoidearum** (Desm.) Sacc. *Hendersonia Typhoi-* 2465

dearum Desm. Ann. Sc. Nat. 1849 Jun. *Darluca Typhoidearum* B. et Br. in Outl. of Br. Z. p. 318. — Sparsa, immersa; peritheciis minutis, globosis, brunneo-nigris; ostiolis prominulis, papillatis, pertusis; sporulis oblongis, rectis, utrinque obtusis, subfusiformibus, 4-globoso-nucleolatis.

Hab. in foliis Typhæ in Anglia. — ***Sparganii** Fuck. Symb. p. 379. Peritheciis sparsis, primo tectis, dein subliberis, globosis, media magnitudine, aterrimis, levibus; ostiolis minutis, papillæformibus; sporulis magnis, fusiformibus, quadriloculatis, hyalinis, 26 \approx 6. In foliis caulibusque Sparganii in Britannia et Germania.

33. **Stagonospora Luzulæ** (West.) Sacc. *Hendersonia Luzulæ* West. 2466

Bull. ac. roy. belge II. ser. t. XIX. n. 7, Mich. I. p. 210. — Peritheciis numerosis, sparsis, nigris, immersis, ovalibus vel sphaericis, ostiolis epidermidem nigrefactam nitidam perforantibus; sporulis cylindræcis utrinque rotundatis, 12-14 \approx 2 $\frac{1}{2}$ -4, plerumque rectis, 4-guttulatis, hyalinis.

Hab. in calamis vaginisque Luzulæ pilosæ et L. maximæ in Italia boreali, Gallia et Belgio. — Ad *Phomam* nutat.

34. **Stagonospora innumerosa** (Desm.) Sacc. *Hendersonia innume-* 2467

rosa Desm. 19 Not. p. 10. — Culmicola; peritheciis innato-prominulis, minutissimis, 50 μ . diam., globosis, nigris, subnitidis, numerosissimis, in series longissimas parallelas dispositis, intus al-

bis, poro apertis; sporulis subhyalinis, oblongis, obtusis, subellipsoideis, curvulis, 20-30 \approx 5-7, nucleis 4, compressis, subcoloratis.

Hab. in culmis exsiccatis Junci maritimi in Gallia.

35. **Stagonospora insidiosa** (Desm.) Sacc. *Hendersonia insidiosa* 2468

Desm. 22 Not. p. 11. — Caulicola; peritheciis nigris, ovatis, prominulis, epidermide integra aut tandem fissa tectis, poro exiguo pertusis in macula effusa alba subgregariis; nucleo argillaceo; sporulis hyalinis, cylindricis, rectis vel subcurvulis, utrinque obtusis, 20-25 \approx 5, nucleis 3-5 imperfectis.

Hab. in caulibus exsiccatis Junci maritimi in Gallia.

36. **Stagonospora trimera** (Cooke) Sacc. *Hendersonia trimera* Cooke 2469

in herb., Præcursor Monogr. Henders. p. 19. — Peritheciis.....; sporulis elongato-ellipticis, biseptatis, 22 \approx 6.5, subhyalinis.

Hab. ad Juncum maritimum in Britannia (?) et in Fimbristyli autumnali in Amer. bor.

37. **Stagonospora aquatica** Sacc. Mich. II. p. 112 sub *Hendersonia* 2470

aquatica. — Peritheciis innatis, non v. vix erumpentibus, globulosis, $\frac{1}{10}$ mill. diam., ostiolo impresso, contextu minuto parenchymatico fuligineo; sporulis cylindræo-fusoideis, leniter inæquilateralibus, 26-28 \approx 5 $\frac{1}{2}$, utrinque obtusiusculis initio 4-guttatis, dein sub-3-septatis, haud constrictis, hyalinis.

Hab. in calamis Scirpi triquetri in Gallia (BRUNAUD). —

* **S. Karstenii** Sacc.: sporulis crassioribus, 25-39 \approx 6-8. In calamis Scirpi lacustris in Fennia (KARSTEN). — * **S. junciseda** Sacc. Mich. II. p. 350. A typo differt peritheciis duplo majoribus prominulis; sporulis angustioribus et utrinque acutioribus, nempe 25-30 \approx 3-3 $\frac{1}{2}$, triseptatis, non constrictis hyalinis. In calamis Junci effusi v. affinis, mare de l'Etoile, Lyon in Gallia (THERRY). —

* **S. lacustris** Sacc. l. c.: peritheciis gregariis globoso-depressis, subcutaneis, vix papillatis, $\frac{1}{5}$ mill. diam.; sporulis fusoideis, subacutis, 26 \approx 3 $\frac{1}{2}$, triseptatis, non constrictis, e chlorino hyalinis. In calamis Scirpi lacustris, Lyon in Gallia (THERRY).

38. **Stagonospora Caricis** (Oud.) Sacc. *Hendersonia Caricis* Oud. 2471

Mater. Flora mycol. de la Neerlande II. pag. 19. — Peritheciis sparsis, sub epidermide nidulantibus eamque apice, poro pertuso, perforantibus, membranaceis, fuscis; sporulis hyalinis, fusiformibus, utrinque acutatis vel obtusis, rectis vel parum curvatis, absque pedicelli vestigio, denique plerumque 5-septatis, nucleis deficientibus, 25-40 \approx 4-5.

Hab. in foliis Caricis muricatæ, Noaldwijk in Neerlandia.

39. **Stagonospora macrosperma** Sacc. et Roum. Sacc. Mich. II. p. 2472
629 (1882) sub *Hendersonia*. — Peritheciis subcutaneis vix erumpentibus, globoso-depressis, pertusis, 300–400 μ . diam.; sporulis tereti-fusoideis, utrinque obtusiusculis, 85–95 \times 12–14, leniter curvis, 6–8-septatis, non constrictis, guttulatis e hyalino viridulis.
Hab. in foliis graminum, Malmedy in Arduennis (LIBERT).
40. **Stagonospora gigaspora** Niessl, Hedw. 1882, p. 181 (sub *Hen-* 2473
dersonia). Peritheciis sparsis, majusculis, tectis, depresso-globosis, ostiolo punctiformi; sporulis subcylindræis vel subfusiformibus, rectis, utrinque obtuse rotundatis, 6–8-cellularibus dilutissime virescentibus, 74–80 \times 11–14.
Hab. in foliis emortuis Caricis montanæ, Adamsthal in Moravia. — Verisimiliter non diversa a *Stag. macrosperma* Sacc. et Roum. anteriore.
41. **Stagonospora macropus** (B. et Br.) Sacc. *Darluca macropus* 2474
(B. et Br.) Cooke Handb. n. 1287. *Hendersonia macropus* B. et Br. N. H. n. 416. — Peritheciis omnino tectis depressis, dein collapsis, poro minuto pertusis epidermidemque atro-punctulantibus; sporulis longe pedicellatis, elongatis, cylindræis, sæpe curvatis, 3–6-nucleolatis.
Hab. in foliis emortuis Caricis in Britannia et Germania. — Teste Fuckel., forma esset *Stag. Typhoidearum*.
42. **Stagonospora paludosa** (Sacc. et Sp.) Sacc. *Hendersonia palu-* 2475
dosa Sacc. et Sp. in Mich. I. p. 353. — Peritheciis gregariis in parenchymate foliorum immersis amphigenis, circa ostiolum epidermidi hærentibus, globosis, 100–120 μ . diam., papillulatis, vix denique erumpentibus, contextu membranaceo indistincte parenchymatico, fusco; sporulis fusoides, utrinque acutiusculis, rectis curvulisve, 50–60 \times 9–10, 8–10-septatis, ad septa non v. vix constrictis, grosse 9–11-guttatis, hyalinis.
Hab. in foliis putrescentibus Caricis ripariæ, Bresseo (Euganei) in Ital. bor. — Ab affinibus *S. arundinacea*, *S. subseriata* et *S. Typhoidearum* magnitudine et septatione sporularum differt.
43. **Stagonospora arenaria** Sacc. Mich. I. p. 124 sub *Hendersonia* 2476
— Peritheciis gregariis subcutaneis dein, erumpentibus, globoso-lenticularibus, $\frac{1}{4}$ – $\frac{1}{5}$ mill. diam., minutissime papillatis, quandoque subhysteriiformibus, atris, contextu minute sed distincte celluloso, ochraceo-fuligineo; sporulis cylindræis rectis curvulisve utrin-



que obtusiusculis, 30-35 \approx 3 $\frac{1}{2}$ -4, plasmate 4-partito 3-septatisque, hyalinis.

Hab. in culmis Elymi arenarii ad Skaereninsel östlich von Dalaroe prope Stokholm Daniæ (P. MAGNUS). — Ad genus *Septoriam* paullulum quoque vergit.

44. **Stagonospora intermixta** (Cooke) Sacc. *Hendersonia intermixta* 2477

Cooke in herb. Præcur. Monogr. Henders. pag. 19. — Peritheciis.....; sporulis fusoido-oblongatis, 7-septatis, flavidis, 50 \approx 3,5.

Hab. in caulibus Milii multiflori in consortio *Hendersoniæ Castagnei* in Britannia (?).

45. **Stagonospora subseriata** (Desm.) Sacc. *Hendersonia subseriata* 2478

Desm. Exs. n. 1893, Kickx Flandr. t. I, pag. 390. — Peritheciis erumpentibus, 3-5-subseriatis, subinde confluentibus, minutis, nigris, globulosis, poro minuto pertusis; sporulis fusiformibus oblongis, 38-40 \approx 7, 6-8-nucleatis, 3-6-septatisque, hyalinis.

Hab. in culmis siccis Enodii cœrulei aliorumque graminum in Belgio et Germania.

46. **Stagonospora Ischæmi** Sacc. Mich. I. p. 201 sub (*Hendersonia*). 2479

— Peritheciis gregariis v. longitudinaliter cæspitulosis, erumpentibus globulosis, papillatis; contextu parenchymatico, atro; sporulis cylindræis v. oblongatis, 12 \approx 4, initio 4-guttulatis, dein 1-septatis, tandem 3-septatis, ad septa non constrictis, hyalinis.

Hab. in culmis putrescentibus Andropogonis Ischæmi, Padova in Ital. bor.

47. **Stagonospora graminella** Sacc. Mich. I. p. 210 (sub *Hendersonia*). 2480

nia). — Peritheciis gregariis, erumpentibus, globoso-papillatis, atris; contextu parenchymatico fuligineo; sporulis cylindræis utrinque obtusiusculis, 18-20 \approx 3-3 $\frac{1}{2}$, (jugiter) 4-6-guttulatis, hyalinis.

Hab. in culmis graminum inferiorum, Selva in Ital. bor. et Malmedy in Arduennis. — "lophioides Sacc. Mich. II. p. 111. A typo differt præcipue peritheciis compresso-oblongis ostioloque ipso subrimoso; sporulis cylindræis, curvulis, utrinque obtusis, 15-16 \approx 3, 4-nucleatis, hyalinis. In culmis tenellis Phragmitis, socio *Lophiotremate semilibero*, Rouen in Gallia (LETENDRE).

48. **Stagonospora vexatula** Sacc. Mich. II. p. 350 sub *Hendersonia* 2481

vexatula. — Peritheciis gregariis, innato-erumpentibus, globoso-conoideis, $\frac{1}{5}$ mill. diam., nigris, duriusculis; sporulis cylindræis, utrinque rotundatis, 35-38 \approx 4 $\frac{1}{2}$ -5, quinque-septem-nucleatis, hyalinis.

Hab. in culmis emortuis *Phragmitis communis*, Saintes in Gallia (BRUNAUD). — A *S. vexata* Sacc. (Mich. I. 211, II. 112) differt sporulis multo minoribus.

49. **Stagonospora dolosa** Sacc. et Roum. in Mich. II. p. 630 (sub 2482
Hendersonia). — Peritheciis erumpenti-superficialibus, globoso-papillatis, $\frac{1}{2}$ mill. diam., atro-nitidulis; sporulis fusoidis, rectis v. curvulis, 60-70 \approx 10, quinqueseptatis, 6-nucleatis, non constrictis, hyalinis.

Hab. in culmis *Phragmitis*, Malmedy in Arduennis (LIBERT). — Habitus *S. vexatæ*, sed sporulæ diversæ.

50. **Stagonospora vexata** Sacc. Mich. I. p. 211 et II. p. 112 (sub 2483
Hendersonia arundinacea, non vero Desm.) — Peritheciis innato-erumpentibus, sæpe seriatis, globoso-papillatis, atris; sporulis cylindræo-bacillaribus, utrinque rotundatis, 60-70 \approx 7, 10-12-septatis, 11-13-guttulatis, hyalinis.

Hab. in culmis *Phragmitis communis*, sociâ *Leptosphaeriâ arundinaceâ*, Selva, Padova in Ital. bor. — β . **pauperior** Karst. Symb. myc. Fenn. XIII. p. 12; sporulis fusoidis-bacillaribus, hyalinis, 5-7-septatis, 7-8-guttulatis, 65-75 \approx 9-10. In culmis *Phragmitis communis*, Aboa Fennicæ.

51. **Stagonospora hysteroioides** (Karst.) Sacc. *Hendersonia hysteroioides* 2484
Karst. Hedw. 1884, p. 60. — Peritheciis gregariis, erumpentibus, elongatis, hysteroiiformibus, usque ad 1 mill. longis; sporulis fusoidis-bacillaribus, rectis, simplicibus (semper?), 4-6-guttulatis, hyalinis, 14-16 \approx 3.

Hab. in culmis emortuis *Phragmitis communis*, Aboa in Fennia.

52. **Stagonospora neglecta** (West.) Sacc. *Hendersonia neglecta* West. 2485
Exs. n. 1224, Kickx Fl. crypt. Fl. I. p. 390. — Peritheciis perexiguis, sparsis, copiosissimis, innatis, globulosis, nigris, epidermide subinflata albaque tectis, poro pertusis; sporulis fusoidis, hyalinis, 3-septatis.

Hab. in vaginis *Phragmitis communis*, Ostende et Nieuport in Belgio (WESTENDORP).

53. **Stagonospora Arundinis** (Cooke) Sacc. *Hendersonia Arundinis* 2486
Cooke Præcursor Monogr. Henders. p. 19. — Peritheciis.....; sporulis ovatis, ellipticis vel elongatis, 1-3-septatis, polymorphis, flaveolis, 15-20 \approx 6.

Hab. in Arundine Donace in Britannia (?).

54. **Stagonospora epicalamia** (Cooke) Sacc. *Hendersonia epicala*. 2487

mia Cooke, Præcursor Monogr. Henders. p. 19. — Peritheciis.....; sporulis subfusiformibus, obtusis, triseptatis, 30 ≈ 5, subhyalinis.

Hab. ad culmos Arundinis in Britannia (?).

55. **Stagonospora Rauii** (Ell.) Sacc. *Hendersonia Rauii* Ell. Torr. 2488

bœt. Club. 1882, p. 133. — Pustuliformis; sporulis oblongo-ellipticis, 2-nucleatis, subhyalinis, 9-11 ≈ 3,5, basidiis æquilongis suffultis.

Hab. in capsulis Polytrichi formosi prope Bethlehem Americæ bor. (RAU).

MASTOMYCES Mont. Ann. Sc. Nat. 3. X. p. 134, t. 6, f. 4 (1848).

(Etym. *mastos* mamma, et *myces* fungus). *Topospora* Fr. F. Natal. p. 33 (1848). — Perithecia gregaria, innato-erumpentia, nigra, oblonga, ventricosa, ostiolata, ostiolo papillæformi, tota e fibris parallelis olivaceis composita. Sporulæ fusiformes, triseptatæ, hyalinæ, longissime pedicellatæ, tandem cum gelatina erumpentes.

1. **Mastomyces Friesii** Mont. l. c. p. 135, t. 6, f. 4. *Sphæria ube-* 2489

riformis Fries Syst. Myc. II. p. 491. *Topospora uberiformis* Fr. F. Natal. p. 33. — Gregaria, erumpens; peritheciis elongatis, ventricosis, utrinque attenuatis, nigris, ostiolo crasso papillæformi; sporulis fusoideis, 3-septatis, utrinque acutis ad septa leniter constrictis, 16-20 ≈ 2,5, hyalinis; basidiis capillaribus sporulâ 4-5-plo longioribus.

Hab. in ramis emortuis Ribis nigri in Suecia. — Perithecia tota erumpentia, liberata, lineam longa, subinde cæspitosa, basi stipitiforâ intra corticem delitescente, rigida, levissima, subnitida, in ostiolum magnum coarctatum angustata. — Habitus fere *Bombardicæ*.

2. **Mastomyces? proboscidea** (Fr.) Sacc. *Sphæria proboscidea* Fr. 2490

in Kunze et Schm. Heft. II. p. 53. *Topospora proboscidea* Fr. F. Natal. p. 32, et Summa V. S. p. 415. — Subcorticalis; peritheciis elongatis cylindricis, glabris, nigris, ostiolo papillæformi, erumpente; sporulis.....

Hab. in ramis emortuis salicinis in Suecia.

REPERTORIUM
SPHÆRIOIDEARUM PHRAGMOSPORARUM
 SECUNDUM MATRICES

Obs. A. indicat *Angiopoma*. — C. *Couturea*. — Cr. *Cryptostictis*. — H. *Hendersonia*. — Hu. *Hendersonula*. — L. *Lichenopsis*. — M. *Mastomyces*. — P. *Prosthemium*. — S. *Stagonospora*.

N. 2288 — 2490 citantur 288 — 490

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|--|--------------------------------------|
| Abies — H. 327. | Celtis — H. 347. — L. 423. |
| Acer — H. 293. 346. — S. 448. | Cerasus — S. 454. |
| Agave — S. 462. | Chrysobactron — H. 406. |
| Ailanthus — H. 293. | Convolvulus — H. 369. |
| Alnus — P. 431. | Cornus — H. 298. 299. 336. — L. 423. |
| Ammophila — H. 392. | Corylus — H. 348. — S. 453. |
| Ampelopsis — H. 293. | Cupressus — H. 353. |
| Andropogon — S. 479. | Cydonia — H. 337. 339. 340. |
| Apluda — H. 390. | Cytisus — S. 434. |
| Araucaria — H. 350. | |
| Aristida — H. 403. | Delphinium — H. 357. |
| Arundo — H. 397. 400. 401. — S. 486.
487. | Elymus — S. 476. |
| Asphodelus — S. 463. | Enodium — S. 478. |
| Aster — S. 444. | Eucalyptus — H. 319. 320. |
| Berberis — H. 293. — Hu. 438. | Evonymus — S. 442. |
| Betula — H. 414. — P. 430. — S. 455. | |
| Brachypodium — H. 391. | Fagus — H. 410. |
| Brodiaea — S. 461. | Ficus — H. 325. |
| Bromus — A. 422. | Fimbristylis — S. 469. |
| Buxus — S. 452. | Fourcroya — H. 380. |
| | Frangula — H. 297. |
| Calluna — S. 447. | Fraxinus — H. 290. — Hu. 439. |
| Calycanthus — H. 293. | |
| Camellia — H. 335. | Galega — H. 293. |
| Capparis — H. 288. 371. | Galium — H. 355. |
| Carex — H. 386. — S. 471. 473. 474.
475. | Gladiolus — H. 379. |
| Carpinus — H. 408. 409. | Gleditschia — H. 294. |
| Carya — H. 418. | Glyceria — H. 404. |
| | Graminaceæ — S. 472. 480. |

- Hedera — H. 293. — Hu. 438.
 Heliconia — S. 459.
 Humulus — H. 355. 375.
 Heracleum — H. 365.
 Iasminum — H. 288. 293.
 Iuncus — H. 399. — S. 467. 468. 469.
 Juniperus — H. 352. 354.
 Lagenaria — H. 370.
 Lagerstroemia — H. 289.
 Laurus — H. 289. 293.
 Lecidea — H. 407.
 Lilium — H. 382.
 Liriodendron — H. 289.
 Lonicera — H. 307. 308. 309. 310. —
 Cr. 428.
 Lupinus — H. 359.
 Luzula — S. 466.
 Lychnis — H. 355.
 Magnolia — H. 331.
 Magydaris — H. 366.
 Medicago — H. 358.
 Mespilus — S. 436.
 Milium — H. 402. — S. 477.
 Morus — H. 413.
 Musa — S. 460.
 Narcissus — S. 464.
 Nyssa — S. 449.
 Olea — C. 421. — S. 443.
 Parietaria — H. 369.
 Paronychia — H. 362.
 Phaseolus — S. 435.
 Phragmites — H. 389. 382. 393. 394.
 395. 396. 397. 398. 399. — S. 480.
 481. 482. 483. 484. 485.
 Pinus — H. 328. 351. — S. 457.
 Pirus — H. 290. 341. 342. 420. — S.
 437.
 Platanus — H. 411.
 Polygonum — H. 373. — S. 446.
 Polytrichum — S. 488.
 Populus — H. 289. 293. 333. 337. 349.
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 Prunus — H. 288. 290. 337. 338. —
 Hu. 433.
 Quercus — H. 329. 335. 337. 345. 416.
 417. — Cr. 426.
 Rhamnus — H. 296.
 Rhododendron — H. 344. — Cr. 427.
 Rhus — H. 289. 323. 324.
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 Rubus — H. 292. 293. 316. 317. 333.
 Ruscus — H. 384.
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 Salix — H. 290. 326. 337. — M. 490.
 Sambucus — H. 293. 303. 304. 305.
 306. 355. — Hu. 440. 441.
 Scirpus — H. 385. — S. 470.
 Senecio — S. 445.
 Smilax — S. 458.
 Solanum — H. 367. 368. — Hu. 432.
 Sorbus — H. 290. 343.
 Sorghum — H. 388.
 Sparganium — H. 377.
 Spiraea — H. 361.
 Statice — H. 372.
 Symplocos — H. 322.
 Syringa — H. 301. 302.
 Tecoma — H. 321.
 Tephrosia — H. 360.
 Thea — H. 334.
 Tilia — H. 318.
 Triticum — H. 405.
 Typha — H. 378. — S. 465.
 Ulmus — S. 456.
 Umbelliferæ — H. 363. 364.
 Viburnum — H. 300. 337.
 Vitis — H. 293. 311. 312. 313. 314. —
 — Cr. 425.
 Wistaria — H. 295.
 Xerophyllum — H. 333.
 Yucca — H. 381.
 Zea — H. 373.

Sect. 6. Dictyosporæ Sacc.

Sporulæ ovoideæ vel oblongæ, 2-pluriseptato-muriformes, vel radiatim vel cruciatim septatæ, fuliginææ vel olivaceæ (Formæ *hyalophragmiæ* hucusque desiderantur).

Clavis analytica generum.

I. Perithecia discreta.

§ Sporulæ episporio levi seu non reticulato ornataæ.

Camarosporium. Perithecia corticola, subcutanea vel erumpentia.

Cytoporium. Perithecia xylogena, subsuperficialia.

§§ Sporulæ episporio reticulato ornataæ.

Endobotrya. Perithecia subcutanea; sporulæ intus articulos globosos transverse seriatos foventes.

II. Perithecia stromate dothideaceo subimmersa.

Dichomera. Est *Camarosporium* stromaticum.

CAMAROSPORIUM Schulz. Myk. Beitr. 1870 p. 649, Sacc. Mich. II. p. 8. (Etym. *kamara* fornix, cella, et *spora*), *Dichomera* Cooke p. p., *Staurosphaeria* Rabenh. p. p. — Perithecia subcutaneo-erumpentia, discreta, globulosa, atra, sæpius papillata, membranacea vel subcoriacea. Sporulæ ovoideæ oblongæ vel fusoidæ, 2-pluriseptato-muriformes, fuliginææ vel olivaceæ.

I. *In ramis, rarius fructibus Dicotyledonearum lignosarum.*

1. **Camarosporium Robiniæ** (West.) Sacc. *Hendersonia Robiniæ* West. 2491 Crypt. class. p. 375. — Peritheciis subglobulosis, brunneis, cortice immersis, initio sparsis dein lineatim seriatis epidermidem perforantibus; ostiolo subpapilliformi; sporulis ovali-elongatis, brunneis, 6-8-septato-muriformibus, $15-16 \approx 7$.

Hab. in ramulis emortuis Robiniæ Pseudacaciæ in Gallia, Belgio, Italia, Britannia, Bavaria, Austria inf. et Amer. sept. — Verisimiliter pycnidium *Cucurbitariæ elongatæ*.

2. **Camarosporium subfenestratum** (B. et C.) Sacc. *Hendersonia subfenestrata* B. et C. North Americ. Fungi n. 427^{bis} — Peritheciis sparsis congestisve; sporulis 5-7-septatis, verticaliter divisis, oblongis, utrinque obtusis, $15-25 \approx 5\frac{1}{2}-7$.

Hab. in ramis Robiniæ in Carolina sup. Amer. bor. — « An diversum a *C. Robiniæ?* et *C. Berkeleyano?* ». Sec. Farlow Bost. Fungi p. 252 huc spectat *Sphæria pubens* Schw.

3. **Camarosporium Triacanthi** Sacc. in Mich. I. p. 507 sub *Hender-* 2493
sonia. — Peritheciis erumpentibus, sæpe cæspitulosis, globosis, papillatis, nigris; sporulis oblongis, 20 = 8, 4-5-septato-muriformibus, fuligineis.

Hab. in ramis putrescentibus Gleditschiæ Triacanthi in Cadore (Belluno) Ital. bor. — β . **minus** Sacc. Fung. Gall. n. 2173; sporulis sæpius 3-septato-muriformibus, 16-18 = 8-10, fuligineis. — In leguminibus Gleditschiæ Triacanthi, Saintes Galliæ (BRUNAUD).

4. **Camarosporium Coronillæ** Sacc. et Sp. in Mich. I. pag. 208 sub 2494
Hendersonia — Peritheciis sparsis v. aggregatis, erumpentibus, olivaceo-nigris, globulosis, papillatis, denique umbilicatis; sporulis oblongis, utrinque rotundatis, rectis curvulisve, 15-18 = 6-8, 3-5-septato-muriformibus, rarius ad septa constrictis, dilute fuligineis.

Hab. in ramulis Coronillæ Emeri, Susegana in Ital. bor., sociâ *Cucurbitariâ Coronillæ* (Fr.) Sacc. (SPEGAZZINI). — β . **Coluteæ** Sacc. Rel. Lib. IV. n. 143: sporulis 16-18 = 6-7, 3-septato-muriformibus, fuligineis. Ad ramulos Coluteæ, Malmedy in Arduennis (LIBERT). — γ . **Lauri** Sacc. Mich. I. p. 516: peritheciis gregariis, innato-erumpentibus; sporulis ovato-oblongis, 20 = 8, 3-septato-muriformibus, olivaceo-fuligineis. — In ramulis Lauri nobilis pr. Rouen Galliæ (LETENDRE).

5. **Camarosporium Coluteæ** (P. et C.) Sacc. *Hendersonia Coluteæ* 2495
P. et C. 33. Rep. St. Mus. pag. 23. — Peritheciis prominentibus, erumpentibus, hemisphæricis vel subconicis, firmis, ostiolo nigro papilliformi; sporulis oblongis, obtusis, coloratis, 3-6-septatis, subinde longitudinaliter septatis, 20-25 μ . longis.

Hab. in ramis emortuis Coluteæ arborescentis, Buffalo. — An eadem ac *C. Coronillæ* β .?; sporulæ tamen in hoc minores et parcius septatæ.

6. **Camarosporium Laburni** Sacc. et Roum. Mich. II. p. 630. — Pe- 2496
ritheciis corticulis, gregariis, globosis, $\frac{1}{4}$ - $\frac{1}{2}$ mill. diam., breve papillatis, nucleo atro; sporulis oblongis, utrinque rotundatis, 7-9-septatis muriformibusque, 30-32 = 9-10, ad septa vix constrictis, fuligineis, breve hyalino-stipitatis.

Hab. in ramis Cytisi Laburni in Gallia merid. — Pycnidium *Cucurbitariæ Laburni*.

7. **Camarosporium alpinum** Speg. Dec. Mycol. 112 (sub *Henders.*) 2497

Sacc. Mich. II. p. 166. — Peritheciis cæspitosis, rarius subsparsis, erumpentibus, globosis, papillulatis, atris, contextu densissime parenchymatico, fuligineo; sporulis ellipsoideis v. ovoideis, 12-15 \approx 5-6, utrinque obtusiusculis, 3-4-septatis, septo uno alterove longit., fuligineo-olivaceis.

Hab. in ramulis Sarothamni scoparii in alpinis M. Borgâ Cimolais, Carnia in Italia bor. (SPEGAZZINI). — Valde recedit a statu macrostyl. *Cucurbitariæ Spartii*, qui describitur a Fuck. Symb. Nachtr. I. 20 et II. 32.

8. **Camarosporium abnorme** (Peck) Sacc. *Hendersonia abnormalis* 2498

Peck 33. Rep. St. Mus. 23. — Peritheciis numerosis, minutis, subconicis, ramulos omnino ambientibus, maculis subfuligineis insidentibus, pustulas minutas corticales formantibus, dein epidermidem perforantibus ostioloque minuto rotundo dehiscentibus; sporulis ellipticis vel oblongis, coloratis, 15-28 \approx 10, 6-septatis muriformibusque.

Hab. in ramulis Celastris scandentis, Charlton Amer. bor.

9. **Camarosporium polymorphum** (De Not.) Sacc. in Mich. I. p. 208 2499

sub *Hendersonia*. *Diplodia polymorpha* De Not. Micr. Ital. IV. f. 5. — Peritheciis sparsis, globulosis, papillulatis, e fibris ligneis erumpentibus; sporulis ellipsoideis, initio continuis stipitellatis, dein 3-4-septato-muriformibus, 10 \approx 8, ad septa non v. vix constrictis, fuligineis.

Hab. in ramis Loniceræ Xylostei in Ital. bor., in caulibus Rutæ, Saintes in Gallia (BRUNAUD). — Huic paullulum affine est *C. sarmenticium* Sacc. Teste Cooke, huc spectaret *Hendersonia Loniceræ*, de qua cfr. suo loco. — β . **Rutæ** Sacc. F. Gall. n. 2255: sporulis ovato-globosis, 2-3-septato-muriformibus, subinde cruciatim septatis, fuligineis, 10-15 \approx 8-10. — In caulibus Rutæ, Saintes (BRUNAUD).

10. **Camarosporium Xylostei** Sacc. *Didymosphæriæ Xylostei* st. ma- 2500

crostylosp. Fuck. Symb. p. 141. — Peritheciis sparsis, in cortice sub epidermide nidulantibus, demum subliberis, minutis, conico-globosis, atris, minutissime papillatis; sporulis oblongo-ovatis, utrinque attenuatis, nec non obtusis, 3-5-septatis muriformibusque, ad septa constrictis, fuscis, 18-20 \approx 8.

Hab. in ramis corticatis mortuisve vivisve Loniceræ Xylostei pr. Hattenheim Germaniæ.

11. **Camarosporium macrosporum** (Berk. et Br.) Sacc. *Hendersonia* 2501

macrospora Berk. et Br. Ann. of Nat. Hist. II. p. 413. *Hendersonia pulchella* Sacc. Myc. ven. sp. p. 200, t. XVII. f. 22-23. — Peritheciis tectis sparsis, nigris, globoso-hemisphæricis, papillulatis, $\frac{1}{2}$ mill. diam.; sporulis lanceolatis, $20 \approx 7$, primo 1-septatis, denique 4-5-septatis, ad septa constrictis parceque muriformibus fusco-lutescentibus.

Hab. in ramulis Philadelphi coronariæ in Ital. bor., Anglia, Germania, Austria infer.

12. **Camarosporium Rosarum** (West.) Sacc. *Staurosphaeria Rosarum* 2502

West. Exs. n. 1371, Kickx Fland. t. I. p. 399. — Peritheciis minutis, sparsis, immersis, nigris, ostiolo papilliformi epidermidem perforante; sporulis numerosis, rotundatis, brunneis, tri-septatis; septis obliquis ad centrum convergentibus; basidiis filiformibus, brevibus, simplicibus.

Hab. in ramis dejectis Rosarum, Gand in Belgio. — Sporulæ potius *Dichomeræ* sed perithecia discreta.

13. **Camarosporium rubicolum** Sacc. Mich. I. p. 209, sub *Hendersonia*. 2503

— Peritheciis sparsis, globulosis, minutis, erumpentibus; sporulæ oblongo-ovoideis v. subangulosis, utrinque rotundatis, $12-14 \approx 6$, 3-4-septato-muriformibus, ad septa non constrictis, fuligineis, initio vero continuis et breviter stipitatis.

Hab. in ramulis Rubi fruticosi, Padova in Ital. bor.

14. **Camarosporium Padi** Brunaud in Roum. Revue Mycolog. — Pe- 2504

ritheciis nigris minutis gregariis, sæpe lineatim dispositis, cortice tectis; sporulis brunneis, ovalibus elongatis utrinque leniter rotundatis, 5-septatis, loculis mediis longitudinaliter septatis et constrictis, $18-20 \approx 5-6,5$.

Hab. in ramis emortuis Pruni Padi, Saintes in Gallia.

15. **Camarosporium multiforme** Sacc. et Schulz. Ill. Fung. Slav. n. 2505

87. — Peritheciis cortice secedente, superficialibus, globulosis, obtuse papillatis, perexiguis, $\frac{1}{10}-\frac{1}{6}$ mill. diam., atris, tenuibus; sporulis oblongis v. sarciniformibus cruciatim v. muriformi-1-3-septatis, fuligineis, ad septa constrictis, $9-12 \mu$. cr. vel usque 18μ . longis.

Hab. in ramulis Cydoniæ vulgaris pr. Vinckovce Slavoniæ.

16. **Camarosporium Tiliæ** Sacc. et Penz. Mich. II. p. 630. — Peri- 2506

theciis gregariis, peridermio pustulatim elevato tectis, globoso-depressis atris, ostiolo obtuso vix erumpente; sporulis obovatis, basi acutiusculis, apice rotundatis v. subinæqualibus, $8-10 \approx 6-7$, 2-3-septatis muriformibusque fuligineis.

Hab. in ramis corticatis emortuis Tiliæ europææ in Gallia (LETENDRE). — Affine *Cam. incrustanti* Sacc.

17. **Camarosporium sarmenticum** Sacc. Mich. I. p. 96. — Peritheciis sparsis erumpenti-superficialibus, subcarbonaceis, globosis, majusculis, atris, in ostiolum breve cylindraceum attenuatis; sporulis e globoso ellipsoideis, inæqualibus, $22 \approx 12-14$, sæpe in basim subcuneatis, 3-septato-muriformibus, ad septa vix constrictis, opace fuligineis, loculis extimis pallidioribus.

Hab. in sarmentis corticatis Hederæ Helicis, Padova in Italia boreali.

18. **Camarosporium viticolum** (C. et Harkn.) Sacc. *Dichomera viticola* Cooke et Harkn. Grev. 1881, p. 83. — Sparsum, erumpens; peritheciis atris, subglobosis, prominulis; sporulis subglobosis, septatis, cellulâ alterâ longitudinaliter divisis, fuscis, $8 \approx 6$.

Hab. in racemis Vitis exsiccatis in California.

19. **Camarosporium Cerei** (Peck) Sacc. *Hendersonia Cerei* Peck. Botan. Gazet. p. 55. — Peritheciis minutis, hemisphæricis, dein collapsis v. depressis, ostiolo papilliformi, nigris; sporulis numerosis, oblongis, dilute coloratis, 3-septatis, ad septa constrictis, $20-22 \approx 4-5$, loculo secundo superiore longitudinaliter diviso.

Hab. in cortice emortuo Cerei gigantei, Arizona in Amer. bor. (PRINGLE).

20. **Camarosporium Visci** Sacc. *Gibberideæ Visci* st. macrostylosp. Fuck. Symb. p. 169. — Peritheciis liberis, cæspitosis, in stromate spurio dense dispositis, majusculis, globosis, aterrimis, ostiolis papillatis, demum distincte perforatis; sporulis oblongis, subfusiformibus, rectis curvatisve, plerumque 7-septatis, raro septo longitudinali, sub medio arcte constrictis, pallide flavis, $32 \approx 6$, quandoque stipitibus longis adhuc adhærentibus; subinde spermatiis intermixtis cylindraceo-ovatis, rectis, hyalinis, 6 μ . long.

Hab. in ramulis siccis Visci albi in Jura Helvetiæ (MORTIER).

21. **Camarosporium incrustans** Sacc. Mich. I. p. 208. sub *Hendersonia*. — Peritheciis cortice nidulantibus, sparsis v. sæpius aggregatis, globosis, papillulatis, atris, pachydermaticis; sporulis ovoideis initio continuis guttulatis, flavo-lutescentibus dein 3-septato-muriformibus, $15-17 \approx 8$, ad septa non v. vix constrictis, opace fuligineis.

Hab. in ramis corticatis Rhois typhinæ, Padova in Ital. bor., sociâ *Thyridariâ incrustante* Sacc., et Corni sanguineæ, Selva in Ital. bor.

22. **Camarosporium rhoinum** (Cooke et Harkn.) Sacc. *Dichomera* 2512
rhoina Cooke et Harkn. in Grev. 1881, p. 83. — Sparsum; peritheciis subglobosis, atris, demum denudatis, obtusis; sporulis ellipticis, triseptatis, cellula una alterave transverse divisa, fuscis, 20 \approx 8.

Hab. in ramis emortuis Rhois trilobæ in California.

23. **Camarosporium Berkeleyanum** (Lév.) Sacc. *Hendersonia Berkeleyana* 2513
Lév. in Ann. Sc. Nat. 1846, p. 289. — Peritheciis cæspitosis globosis glabris nigris erumpentibus, stromate corticali effuso atro maculæformi insidentibus, ostioliis papillatis; sporulis elliptico-cylindricis, utrinque obtusis, 3-4-septatis, septis 1-2 longitudinaliter divisis, leniter opacis.

Hab. in ramis deciduis Ailanthi glandulosæ, Paris in Gallia et New York in Amer. bor. — Sec. Parl. Fungi Bost. p. 252 vix differt a *C. subfenestrato*.

24. **Camarosporium cruciatum** (Fuck.) Sacc. *Coniothyrium cruciatum* 2514
Fuck. Symb. myc. pag. 173. — Peritheciis gregariis, primotectis demum subliberis, globosis, depressisve, papillatis, atris; sporulis in basidiorum brevium apicibus ortis, irregulariter rotundatis oblongisve, utrinque obtusissimis, aliis simplicibus, multo sæpius vero 1-4-septatis, septis sæpe cruciatis submuriformibusque, fuscis, magnitudine variis, 6-10 μ . diam. longioribusve.

Hab. in ramis Alni campestris in Germania et Ital. bor.

25. **Camarosporium Quercus** Sacc. et Roum. Reliq. myc. Libert. IV. 2515
n. 142. — Peritheciis cæspitulosis, erumpentibus, globulosis, obtuse papillatis, $\frac{1}{3}$ mill. d., atris; sporulis oblongis, utrinque rotundatis 5-septato-muriformibus, haud constrictis, 25-28 \approx 8-10, fuliginosis; basidiis quarta parte brevioribus, filiformibus.

Hab. in ramis corticatis Quercus, Malmedy in Arduennis. — Sistit probabiliter pycnidium Otthiæ Quercus.

26. **Camarosporium Mori** Sacc. Mich. I. p. 208, sub *Hendersonia*. — 2516
Peritheciis erumpentibus, gregariis v. aggregatis, globulosis, breviter papillatis, aterrimis; contextu parenchymatico fusco; sporulis oblongo-ovoideis, 22 \approx 10, quandoque inæqualibus, 3-5-septato-muriformibus, ad septa non constrictis, fuliginosis.

Hab. in ramis Mori albæ, Conegliano in Ital. bor. (SPEGAZZINI). — Huc probabiliter spectat *Camarosporium Mori* Schulz. Myk. Beitr. 1870 p. 649 (Slavonia), et *Hender. Mori* Kalchbr. Hedw. 1866 p. 191 (Hungaria).

27. **Camarosporium propinquum** Sacc. Mich. I. p. 516 sub *Hender.* 2517

sonia. — Peritheciis subcutaneo-erumpentibus gregariis, globoso-papillatis nucleoque farcto nigris, $\frac{1}{3}$ mill. diam.; sporulis ovato-oblongis, 15-16 \approx 8, 3-septato-muriformibus, non constrictis fuliginis, basidiis brevibus, crassiusculis initio suffultis.

Hab. in ramulis Salicis vitellinæ, Rouen in Gallia (LE-TENDRE).

28. **Camarosporium salicinum** Sacc. Rouss. et Bomm. Miscell. Myc. F. 2518

Belg. n. 13. — Peritheciis subcutaneo-erumpentibus, globoso-papillatis atris, laxe gregariis, $\frac{1}{2}$ mill. diam.; sporulis ellipsoideis, 3-septato-muriformibus, ad septa constrictis, utrinque rotundatis, 18-20 \approx 8-10, fuliginis; basidiis..... non visis.

Hab. in ramis corticatis salicinis, sociâ *Diplodiâ salicellâ* Sacc. prope Bruxelles Belgii. — *Camarosporio propinquo* nimis forte affinis species.

29. **Camarosporium picastrum** (Fr.) Sacc. *Sphæria picastra* Fr. S. 2519

M. II. p. 463 p. p., Curr. Simpl. Sphær. pag. 320. — Sparsum, atrum, opacum; peritheciis ellipticis, conico-depressis, innatis, rugulosis, umbilicatis; sporulis fusco-brunneis, septato-muriformibus, 20 \approx 6-7.

Hab. in ligno indurato resinoso Pini silvestris in Germania.

30. **Camarosporium Pini** (Westd.) Sacc. *Hendersonia Pini* West. 2520

Bul. Ac. belg. II. ser. t. 2, n. 7. — Peritheciis corticulis, sparsis minutis nigris immersis; epidermide leniter elevata ostioloque minute perforata tectis; sporulis ovalibus, brunneis, 3-septatis, septisque 1-2 verticalibus divisis.

Hab. in cortice Abietis excelsæ, Mons in Belgio et in Germania.

31. **Camarosporium partitum** (B. et C.) Sacc. *Hendersonia parti-* 2521

ta B. et C. North Americ. Fungi n. 428^{bis}. — Peritheciis cæspitosis opacis epidermide cinctis; sporulis oblongis obtusis v. utrinque leviter attenuatis 5-7-septatis, septisque verticaliter divisis, 25-40 μ . longis.

Hab. in ramulis, New Jersey in America septentr.

32. **Camarosporium papillatum** (Pr.) Sacc. *Sporocadus papillatus* Pr. 2522

Fungi Hoyersw. n. 51. — Peritheciis gregariis, oblongis, ellipticis, papillatis, polymorphisque atris; basidiis minutis, albis; sporulis oblongis, fuscis, utrinque subacutis, transversim septatis sæpeque longitudinaliter.

Hab. in ramis arborum frondosarum decorticatis, Hoyerswerda.

II. *In foliis Dicotyledonearum lignosarum.*

33. **Camarosporium Tini** Sacc. Mich. I. p. 209 sub *Hendersonia Tini*. 2523
— Peritheciis foliicolis, punctiformibus, innato-erumpentibus, globulosis nigris; sporulis initio stipitellatis, $12 \approx 7$, 3-septato-muriformibus, dilute fuliginis.

Hab. in foliis languidis Viburni Tini, Selva in Ital. bor.

34. **Camarosporium Lantanæ** (Fleisch.) Sacc. *Hendersonia Lantanæ* 2524
Fleisch. in Rabh. Fung. Eur. 1255, Hedwig. 1869, p. 89. — Peritheciis globosis, inter pilos matricis liberis, ut videtur, astomis; sporulis oblongis tri-raro biseptatis, fuscis longitudinaliterque septatis, $12-18 \approx 8$.

Hab. ad folia Viburni Lantanæ in Germania.

35. **Camarosporium Cookeanum** (Speg.) Sacc. *Hendersonia Cookeana* 2525
Speg. Amp. p. 27. — Foliicolum, in maculis cinereo-albicantibus gregarium, sub epidermide nidulans; peritheciis e globoso-lenticularibus, umbonatis, glabris, contextu densiuscule parenchymatico celluloso, ostiolo impresso pertuso, $180-190 \mu$. diam. atris; sporulis oblongo-ellipsoideis, 3-4-septatis, muriformibus ad septa non vel vix constrictis, flavidis, basidiis papilliformibus suffultis, paraphysibus hyalinis crassis, septulatis guttulatis, obvolutis, $18-22 \approx 10$.

Hab. in foliis Vitis viniferæ, sociâ *Pleosporâ herbarum*, Conegliano in Italia boreali.

36. **Camarosporium oreades** (Dur. et Mont.) Sacc. *Hendersonia oreades* 2526
Dur. et Mont. Fl. Alg. p. 571. *Sphæria oreades* Fr. in Duby Bot. Gall. II. p. 696. *Dichomera oreades* Cooke Præc. Hend. p. 24. — Peritheciis minimis globosis, astomis, nigris, intus albis, in macula orbiculari amphigena, exarida, elevata, applanata, griseo-lutescente aggregatis aut annulatim dispositis; sporulis basidiis brevibus fultis, majusculis ovoideis oblongisve transverse (et longitudinaliter) bi-triseptatis.

Hab. in foliis semiemortuis v. languescentibus *Quercus cocciferæ*, *Q. pubescentis* etc. in Gallia, Belgio, Britannia.

37. **Camarosporium variabile** (B. et C.) Sacc. *Hendersonia variabilis* 2527
B. et C. North Amer. Fungi n. 426. — Maculis orbicularibus pallidis; peritheciis punctiformibus epidermide tectis; sporulis utrinque obtusis triseptatis variis, $30-60 \mu$. longis, septo longitudinali hinc v. inde divisus.

Hab. in foliis *Quercus obtusilobæ* in Carolina inferiore
— «An diversum a *Camar. oreade?*»

38. **Camarosporium pithyum** Sacc. Rouss. et Bomm. Misc. Myc. F. 2528
Belg. n. 12. — Peritheciis subsparsis, globoso-lenticularibus, epidermide initio velatis, $\frac{1}{2}$ mill. diam., poro pertusis; sporulis oblongo-ellipsoideis, 3-septatis parceque muriformibus, ad septa non constrictis, 18-20 \times 8-10, fuliginis, basidiis brevissimis hyalinis suffultis.

Hab. in foliis *Araucariæ imbricatæ*, sæpius epiphylla, pr. Bruxelles Belgii. — A *C. suseganensi* differt peritheciis paullo majoribus et defectu maculæ matricialis.

III. *In caulibus foliisque Dicotyledonearum herbacearum.*

39. **Camarosporium Compositarum** (C. et Harkn.) Sacc. *Dichomera* 2529
Compositarum C. et Harkn. Grev. 1880, p. 7. — Sparsum, erumpens, atrum, opacum, obtusis; sporulis ovatis 2-3-septatis, muriformibus atro-fuscis, demum opacis, 20 \times 14.

Hab. in caulibus *Artemisiæ* et *Achilleæ* in California.

40. **Camarosporium æquivocum** (Pass.) Sacc. *Dichomera æquivoca* 2530
Passer. Erb. Critt. Ital. Ser. II. n. 1391. — Peritheciis discretis, superficialibus, celluloso-contextis; sporulis parvulis fuscis subglobosis, ut plurimum 7-8 μ . diam., uni- vel biseptatis vel sæpius radiatim septatis, aut etiam ellipticis, triseptato-muriformibus, et tunc 10 \times 5.

Hab. in caulibus siccis *Artemisæ camphoratæ*, Vigheffo prope Parma Italiæ (PASSERINI).

41. **Camarosporium Lycii** Sacc. Syll. II. p. 241. *Hendersonia*..... 2531
Hazsl. Sph. Lyc. p. 449, t. XV. f. 19-21. — Peritheciis hinc inde confertis, erumpentibus, globoso-papillatis, pilis molliusculis vestitis, ostiolo longiusculo pertuso; sporulis ellipsoideis, utrinque rotundatis, 3-septato-muriformibus, ad septa haud constrictis, fuliginis; basidiis bacillaribus sporulâ paullo longioribus.

Hab. in ramulis *Lycii barbari* in Hungaria. — Pycnidium *Karstenulæ variantis* (Hazsl.) Sacc.

42. **Camarosporium quaternatum** (Hazsl.) Sacc. Syll. II. p. 329. *Clin-* 2532
terium Lycii Hazsl. Sph. Lyc. p. 451, t. XIV. fig. 9-12. — Peritheciis globoso-conicis pertusis, hirtellis; sporulis elliptico-cuboidis, sæpe cruciatim divisis varieve muriformibus, fuscis; basidiis bacillari-clavatis, articulatis, hyalinis.

Hab. in ramulis Lycii barbari in Hungaria, socio st. asco-phoro *Fenestella Lycii*.

43. **Camarosporium Hazslinszkyi** Sacc. *Stilbosporæ* sp. Hazsl. Sph. 2533
Lyc. p. 449, t. XV. f. 13-18. — Peritheciis hinc inde subaggre-gatis v. subsparsis, globoso-depressis, erumpentibus, apice albido latiuscule pertusis, setulis rigidulis ubique vestitis; sporulis tere-ti-fusoides acutiusculis, 3-septato-muriformibus, ad septa denique constrictis, fuligineis; basidiis bacillaribus, sporulam subæquantibus, articulatis, hyalinis.

Hab. in ramulis Lycii barbari in Hungaria.

44. **Camarosporium Galiorum** (C. et Hark.) Sacc. *Hendersonia Ga-* 2534
liorum C. et Hark. Califor. Fungi in Grev. 1880, p. 7. — Spar-sum, atrum, prominulum, demum erumpens; sporulis subellipticis, utrinque attenuatis, fuscis, triseptatis, cellulâ pænultimâ longitudi-naliter divisâ, 20 = 8.

Hab. in caulibus Galiorum in California.

45. **Camarosporium suseganense** Sacc. et Sp. in Mich. I. p. 209. (sub 2535
Hendersonia). — Foliicolum; maculis albis, sinuosis; peritheciis globoso-lenticularibus, amphigenis, 100-150 μ . diam., pertusis; contextu parenchymatico, atro-fusco; sporulis ovoideis, inæquali-bus, 15-20 = 8-10, 2-4-septatis muriformibusque, fuligineis.

Hab. in foliis Capparidis rupestris, Susegana in Italia boreali (SPEGAZZINI).

46. **Camarosporium Phaceliæ** (C. et Hark.) Sacc. *Dichomera Pha-* 2536
celiæ C. et Harkn. in Grevillea 1880, p. 7. — Sparsum, atrum, erumpens, opacum, obtusum; sporulis subglobosis vel breviter elli-pticis, atro fuscis, transverse et longitudinaliter 1-2-septatis, 12 = 9.

Hab. in caulibus Phaceliæ in California. — Sporulæ interdum ita opacæ ut septa conspici nequeant.

47. **Camarosporium Penzigi** Sacc. Mich. II. p. 143. — Peritheciis gre- 2537
gariis, subcutaneis, prominulis, e globoso obtuse conoideis, $\frac{1}{8}$ - $\frac{1}{6}$ mill. diam.; sporulis ovoideis v. suboblongis, inæqualibus, 14-16 = 8-10, inæqualiter-2-3-septato-muriformibus, ad septa vix constrictis, fuligineis.

Hab. in scapis Statices Schrenkianæ F. et M. ex San-goria (Herb. Patav.). — *Camarosp. suseganensi* S. et S. affine.

48. **Camarosporium Camphorosmæ** (Cast.) Sacc. *Sphæria Campho-* 2538
rosmæ Cast. Mars. p. 172. *Hendersonia Camphorosmæ* Mont. in Cast. Cat. Mars. p. 46, et Syll. n. 938. — Peritheciis tectis, pro-minulis, ovoideo-depressis, sparsis atris poroque pertusis; sporulis

oblongo-obovatis brevibus fuscis, transversim longitrorsumque septis subternis divisis.

Hab. in caule *Camphorosmæ Monspeliacæ* in Gallia australi (CASTAGNE).

49. **Camarosporium Roumeguerii** Sacc. Mich. II. p. 112. — Peritheciis sparsis, globuloso-depressis, papillulatis, epidermide velatis, $\frac{1}{10}$ mill. diam., ochraceo-celluloso-contextis; sporulis ovoideo-subangulosis valde inæqualibus, 18-20 \approx 8, 3-4-septato-muriformibus, melleis.

Hab. in ramulis subvivis *Salicorniæ herbacææ*, La Nouvelle in Gallia (ROUMEGUÈRE), *Salicorniæ peruvianæ* en la Isla de los Leones in Patagonia (SPEGAZZINI). — β . **Kochiæ** Sacc. Mich. II. p. 351: sporulis 12-15 \approx 8-10, varie 2-4-clathrato-septatis, fuligineis, basidiis filiformibus simplicibus ramulosisve 20-25 long. suffultis. In caulibus *Kochiæ* in Gallia australi.

50. **Camarosporium patagonicum** Sp. F. Argent. Pug. III. n. 126. — Peritheciis sparsis, minutis, 90-110 μ . d., lenticularibus, primo tectis dein erumpentibus, atris, membranaceis, contextu olivaceo, basi hyphis radicanibus exilibus ornatis; sporulis versiformibus ellipticis v. subglobosis, 3-7 horizontaliter, 5-6 verticaliter septatis, ad septum medium non v. constrictis, 20-35 \approx 12-18, fuligineis.

Hab. ad folia viva v. languida *Atriplicis* nov. sp. en la Isla de los Leones in Patagonia (C. BERG).

IV. In *Monocotyledoneis*, *Acotyledoneis chartaque*.

51. **Camarosporium minutulum** (Dur. et Lév.) Sacc. *Hendersonia minutula* Dur. et Lév. in Flor. d'Alger. pag. 571. — Peritheciis innatis sparsis, 300 μ . diam., globosis, minutis nigris tomento candido obtectis, ostioliis erumpentibus halone pallida cinctis; sporulis ovoideo-oblongis 3-4 transversim 2-longitrorsum septatis, fuscis, 16 \approx 7,5.

Hab. in foliis vaginisque *Arundinis giganteæ* in consortio *Fusarii abnormis* circa Alger in Africa (DURIEU).

52. **Camarosporium Stephensii** (B. et Br.) Sacc. *Hendersonia Stephensii* B. et Br. in Ann. N. H. n. 502. — Peritheciis irregularibus, oblongis, membranaceis, lineatim dispositis et epidermide brunnea dein longitudinaliter fissa tectis; sporulis latis, ovatis, 3-septatis crebreque reticulato-muriformibus.

Hab. in stipitibus *Pteridis aquilinæ*, Bristol in Anglia.

53. **Camarosporium charticolum** (Speg.) Sacc. *Hendersonia charti-*

cola Speg. in Sacc. Mich. I. p. 483. — Peritheciis innatis, lenticularibus vel subglobosis, primo tectis dein erumpentibus, 120-150, contextu membranaceo-parenchymatico denso, fuligineo, subopaco; sporulis oblongo-ellipticis, quandoque clavulatis, 4-septatis, ad septa leniter constrictis, septo longitudinali quandoque donatis, 40 ≈ 15-16, primo fumose hyalinis, dein subfuscescentibus.

Hab. ad chartam stercorata[m] putrescentem in locis umbrosis, Conegliano in Ital. bor.

CYTOSPORIUM Peck Bot. Gazett. Jun. 1879, p. 171 (sub nomine hybrido *Cellulosporium*) (Etym. *cytos* cavitas, cellula, et *spora*). — Perithecia superficialia v. basi insculpta, epixyla, globulosa, subcarbonacea, atra, papillata v. subastoma vageque dehiscentia. Sporulæ ovoideæ v. oblongæ, 2-pluri-septato-muriformes, fuliginæ. — Est mihi hoc genus tamquam *Camarosporium* subsuperficiale, xylogenum.

1. **Cytosporium sphærosporum** Peck Bot. Gaz. Jun. 1879, p. 171. 2544
— Peritheciis superficialibus, subglobosis, 250-450 μ . diam., fragilibus, nigris; sporulis subglobosis vel late ellipticis, coloratis, cellulosis, 20-30 μ . longis.

Hab. in ligno corrupto, Illinois Americæ borealis. — Habitus fere *Melanommatis* cujusdam.

2. **Cytosporium basitrichum** Sacc. in Mich. I. p. 516 sub *Hendersonia*. 2545
— Peritheciis subsuperficialibus, gregariis e globoso depressis, $\frac{1}{3}$ - $\frac{1}{2}$ mill. diam., strigoso-vestitis, vix papillatis, nigris; pilis septulatis olivaceis; sporulis ovato-oblongis, 3-septato-muriformibus, 18 ≈ 8-9, non constrictis, initio flavis dein fuligineo-olivaceis, basidiis subnullis suffultis.

Hab. in ligno putri *Evonymi*, Rouen in Gallia (LETENDRE). — Affine *Camarosp. incrustanti* Sacc. sed perithecia vestita nec glabra.

ENDOBOTRYA Berk. et Curt. North Am. Fung. n. 457 (Etym. *endon* intus, et *botrys* racemus). — Perithecia cortice abdita. Sporulæ clavatæ, pedunculatæ; episporium reticulatum; endosporium e cellulis globosis nucleatis transversim subseriatis.

1. **Endobotrya elegans** Berk. et Curt. North Amer. Fungi n. 457. 2546
— Peritheciis cortice nidulantibus; sporulis clavatis, stipitatis, 50 μ . longis, in globulum nigrum erumpentibus; episporio hyalino,

initio continuo dein reticulato; endosporio ex articulis globosis, nucleatis, transverse seriatis, denique secedentibus, fuscis.

Hab. in ramis fagineis, Maine Americæ borealis. — «Cum *Thyrsidio* nonnullis notis convenire mihi videtur».

DICHOMERA Cooke Præc. Hend. pag. 24 p. p. Sacc. Mich. II. pag. 8 (Etym. *dichos* dupliciter, et *meros* pars, articulus) *Staurosphæria* Rabenh. et Kickx p. p. *Hercospora* Preuss, nec alior. — Perithecia stromate dothideaceo, pulvinate, erumpente subimmersa, globulosa, papillulata. Sporulæ globulosæ v. ellipsoideæ, 2-4-septato-murales v. sæpius radiatim v. cruciatim 3-6-septatæ, fuliginæ, stipitellatæ. — Species plurimæ potius unius speciei varietates.

1. **Dichomera Saubinetii** (Mont.) Cooke Præc. Henders. p. 24, *Hendersonia Saubinetii* Mont. Syll. p. 263, et Cent. VI. n. 93, l. c. 2547
— Dothideoides, erumpens, elliptico-subrotunda, planiuscula, atra opaca; peritheciis stromate fusco-nigrescente immersis polystichis, superficialibus albo-farctis, alte demersis, brunneis; sporulis subglobosis 8-10 μ . diam. vel 11-12 = 8-9, 2-septato-muriformibus v. sæpius radiatim 3-5-septatis, ad septa leniter constrictis, fuliginæ, initio basidiis cylindraceis sporulâ brevioribus, hyalinis fultis.

Hab. in ramis Rhamni, Sambuci, Quercus in Gallia, Italia bor., Britannia.

2. **Dichomera Rhamni** (West.) Sacc. *Staurosphæria Rhamni* West. 2548
Bul. ac. roy. belg. II. ser. t. VII. n. 5 cum ic. — Peritheciis aggregatis, nigris, membranaceis, immersis, dein superficialibus epidermide rupta cinctis eamque pustulatim elevantibus; ostiolo papilliformi; sporulis numerosis, rotundatis vel irregularibus brunneis, 2-3-4-ocularibus, septis ad centrum convergentibus, sporulam stellatam sistentibus.

Hab. in ramulis Rhamni Frangulæ in Belgio (TOSQUINET).

3. **Dichomera salicina** (Vize) Sacc. *Hendersonia salicina* Vize in 2549
Grevill. t. 97, fig. 17. — Gregaria, erumpens; peritheciis nigris, applanatis, confluentibus v. dothideoideis; sporulis ellipticis, triseptatis, plerumque longitudinaliter divisis, brunneis, 15-22 = 8-10.

Hab. in ramis vetustis salicinis, Forden Britannicæ.

4. **Dichomera mutabilis** (Berk. et Br.) Sacc. *Hendersonia mutabilis* 2550
C. et Br. Ann. N. H. n. 414. — Pustulis depressis, ellipticis, nigris intus pluricellularibus, subcutaneis et vix erumpentibus; sporulis oblongo-ellipticis, 3-4-septatis et muriformibus.

Hab. in ramulis emortuis Platani et Coryli in Anglia et Germania.

5. **Dichomera sphærosperma** (B. et C.) Sacc. *Hendersonia sphærosperma* B. et C. North Amer. Fungi n. 424^{bis}. — Pustulis epidermide cinctis, pluricellulosis; sporulis sphæricis, longe pedicellatis, septis obliquis horizontalibusque divisis, brunneis.

Hab. in ramis Fraxini in Pennsylvania Americæ bor.

6. **Dichomera Tiliæ** (Therry) Sacc. *Staurosphaeria Tiliæ* Therry Rev. myc. V. p. 30. — Stromatibus epidermide tectis dein eâ rupta cinctis, pustuliformibus, numerosis, aggregatis, 3-7-ocularibus, loculis ostiolo papilliformi donatis; sporulis numerosis, initio sphæricis, granulosis, hyalinis dein brunneis 1-3-septatis, ovalibus vel ovoideis cruciato-septatis.

Hab. in ramulis Tiliæ in Gallia (THERRY).

7. **Dichomera stromatica** (Preuss) Sacc. *Hercospora stromatica* 2553 Preuss Fungi Hoyersw. n. 20. — Stromate atro, cortici insidente; peritheciis plurimis, sphæricis, atris inclusis; basidiis (e floccis strati suffultorii ortis) albis; sporulis oblongis, transverse et longitudinaliter septatis, cellulosis, fuscis.

Hab. in cortice arborum frondosarum, Hoyerswerda. — Sporulæ dein in globulum erumpentes dicuntur.

REPERTORIUM
SPHÆRIOIDEARUM DICTYOSPORARUM
 SECUNDUM MATRICES

Obs. C. indicat *Camarosporium*. — Cy. *Cytoporium*. — E. *Endobotrya*.
 — D. *Dichomera*.

Numeri 2491 — 2553 citantur 491 — 553

- | | |
|--------------------------|---------------------------------------|
| Abies — C. 520. | Laurus — C. 494. |
| Achillea — C. 529. | Lonicera — C. 499. 500. |
| Ailanthus — C. 513. | Lycium — C. 531. 532. 533. |
| Alnus — C. 514. | Morus — C. 516. |
| Araucaria — C. 528. | Phacelia — C. 536. |
| Artemisia — C. 529. 530. | Philadelphus — C. 501. |
| Arundo — C. 541. | Pinus — C. 519. |
| Atriplex — C. 540. | Platanus — D. 550. |
| Camphorosma — C. 538. | Prunus — C. 504. |
| Capparis — C. 535. | Pteris — C. 542. |
| Celastrus — C. 498. | Quercus — C. 515. 526. 527. — D. 547. |
| Cereus — C. 509. | Rhus — C. 511. 512. |
| Colutea — C. 494. 496. | Robinia — C. 491. 492. |
| Cornus — C. 511. | Rosa — C. 502. |
| Coronilla — C. 494. | Rubus — C. 503. |
| Corylus — D. 550. | Ruta — C. 499. |
| Cydonia — C. 505. | Salicornia — C. 539. |
| Cytisus — C. 496. | Salix — C. 517. 518. — D. 549. |
| Evonymus — Cy. 545. | Sambucus — D. 547. |
| Fagus — E. 546. | Sarothamnus — C. 497. |
| Fraxinus — D. 551. | Statice — C. 537. |
| Galium — C. 534. | Tilia — C. 506. — D. 552. |
| Gleditschia — C. 493. | Viburnum — C. 523. 524. |
| Hedera — C. 507. | Viscum — C. 510. |
| Kochia — C. 529. | Vitis — C. 508. 525. |

Sect. 7. *Scolecosporæ* Sacc.

Sporulæ bacillares, filiformes vel elongato-fusoideæ, continuæ vel septatæ, hyalinæ vel chlorinæ.

Clavis analytica generum.

I. Perithecia membranacea vel subcarbonacea.

A) Simplices, non stromaticæ.

§ Perithecia erostria.

Septoria. Perithecia exigua, lenticularia, completa, pertusa non papillata, sæpissime maculicola et follicola; sporulæ sæpius angustissimæ.

Phleospora. Perithecia globoso-lenticularia sed spuria vel incompleta, follicola, vix maculicola; sporulæ crassiusculæ.

Rhabdospora. Perithecia globulosa vel depressa, completa, sæpius papillata, rami-caulicola, non vel vix maculicola.

Phlyctæna. Perithecia globoso-oblonga, depressa, majuscula, sed superne incompleta et subhysterioideo-dehiscentia, rami-caulicola.

Gelatinosporium. Perithecia globulosa, in sicco rugosa, atra, erumpentia, vertice late hiantia et massam sporaceam gelatinosam ostendentia.

§§ Perithecia rostrata.

Sphaerographium. Sporulæ fusoideo-filiformes, continuæ, hyalinæ.

Cornularia. Sporulæ fusoideo-filiformes, septatæ, hyalinæ vel chlorinæ.

B) Stromaticæ.

600 *Eriospora*. Sporulæ in basidio communi 4-6-fasciculato-acrogenæ. Graminicola.

600 *Dilophospora*. Sporulæ discretæ, utrinque setuloso-penicillatæ. Graminicola.

601 *Cytosporina*. Sporulæ discretæ, muticæ. Est *Cytospora* scolecospora.

II. Perithecia subsuberosa, spuria, sæpe furfuracea.

Micula. Perithecia discreta, gregaria, globoso-conica, erumpentia.

Micropera. Perithecia dense aggregata, subinæqualia, subelongata, erumpentia.

SEPTORIA Fr. S. M. III. p. 480, emend. Sacc. Mich. II. p. 6. (Etym. a *septo*, quia sporulæ typice septatæ). *Helicobolus* Wallr. p. p., *Filospora* Preuss p. p., *Spilosphaeria* Rabenh., *Ascospora* Mont., *Rhabdospora* Dur. et Mont. p. p. — Perithecia subcuticularia, in areis decoloratis foliorum typice nascentia, globoso-lenticularia, poro pertusa, laxiuscule membranacea. Sporulæ bacillares vel filiformes, pluriseptatæ vel pluriguttulatæ, rarius eguttulatæ, hyalinæ. Basidia nulla vel exigua. — Est quasi *Phyllosticta* vel *Ascochyta* scolecospora.

I. In Dicotyledoneis.

A) Foliicolæ.

§ In plantis lignosis.

1. **Septoria Magnoliæ** Cooke F. Texas p. 142. — Epiphylla; peritheciis atris, subimmersis, in maculis irregularibus brunneis congestis; sporulis linearibus, nucleatis 25–30 μ . longis. 2554
Hab. in foliis Magnoliæ grandifloræ, Houston Texas in America bor.
2. **Septoria niphostoma** B. et C. North Amer. Fungi n. 447^{bis}. — Peritheciis sparsis nitidis nigris, centro candidis; sporulis rectis utrinque obtusiusculis, 25 μ . longis. 2555
Hab. in foliis coriaceis Magnoliæ grandifloræ in Carolina inferiore, Gainesville, Florida.
3. **Septoria Berberidis** Niessl, in Sacc. Mich. I. p. 177 M. V. n. 1015. — Maculis arecendo fuscidulis, zona atropurpurea cinctis, subcircularibus, epiphyllis; peritheciis aggregatis e globoso lenticularibus, poro pertusis; sporulis filiformi-clavatis, hinc acutis, illic obtusis, 45 \approx 2 $\frac{1}{2}$, pluri-guttulatis, hyalinis. 2556
Hab. in foliis Berberidis vulgaris, Conegliano in Italia boreali (SPEGAZZINI) et in Moravia (NIESSL).
4. **Septoria Mahoniæ** Passer. F. Parm. Sept. n. 7. — Maculis minimis, epiphyllis, discoideis, centro exaridis, fusco-marginatis, perithecium singulum, punctiforme, atrum foveentibus; sporulis fusiformibus, plus minusve arcuatis, integris, achrois, endoplasmate opaco, 20 \approx 2,7. 2557
Hab. in foliis languentibus Mahoniæ Aquifolii, sociâ *Phyllosticta Mahoniæ*, Sacc. et Sp., Parma Italiæ bor.
5. **Septoria Corynocarpi** Thüm. Contr. Myc. Lusit. n. 390. — Peritheciis epiphyllis, magnis, lenticularibus, æmersis, gregariis, fusconigrescentibus in macula elliptico-orbiculata, arecendo albida, fuscescenti-cincta, subtus albofusca; sporulis rectis vel interdum leniter curvatis, cylindricis, obsolete bi-triseptatis vel plerumque triguttulatis, utrinque rotundato-obtusis, hyalinis, 15 \approx 5. 2558
Hab. in foliis vivis languidisve Corynocarpi levigatæ in horto bot. Coimbra Lusitaniæ (MOLLER).
6. **Septoria Anodæ** Speg. F. Arg. Pug. IV. n. 283. — Maculis magnitudine ludentibus 1–3 mill. diam., orbicularibus v. irregulariter et obtuse angulosis, sæpe confluentibus, candidis, determinatis, areola latiuscula violaceo-purpurascenti-cinctis; peritheciis epiphyllis, cen- 2559

tralibus minutissimis lenticularibus, 70-80 μ . diam. atris, membranaceis, contextu densiuscule parenchymatico, olivaceo-fuligineo; sporulis filiformibus, 30-50 \simeq 1-1,5, 1-4-septulatis, hyalinis.

Hab. in foliis languidis Anodæ speciei cujusdam in hortis, Boca del Riachuelo Argentinæ.

7. **Septoria Hibisci** Sacc. Mich. I. p. 173. — Maculis arescendo de- 2560
albatis, fusco-cinctis, subcircularibus irregularibusque; peritheciis punctiformibus, lenticularibus 50-60 μ . diam., poro latiusculo pertusis; sporulis bacillaribus leniter curvatis, 15-20 \simeq 2-2 $\frac{1}{4}$, continuis, hyalinis.

Hab. in pagina sup. foliorum Hibisci syriaci, Vittorio in Italia boreali, raro.

8. **Septoria simillima** Thüm. Contr. Funghi Litor. n. 347. — Peri- 2561
theciis hypophyllis, gregariis, conicis, vix emersis, mediis, nigris, sine macula distincta, sed in folii parte emortua, decolorata, sordide fusca, arida; sporulis bacillari-filiformibus, leniter curvis, continuis, utrinque obtusiusculis, hyalinis, 12-16 \simeq 2-2,5.

Hab. ad folia languida Hibisci rosæ-sinensis, in territorio Gorizia. — *Septoria Hibisci* Sacc. forma et magnitudine sporularum eximie quadrat, sed maculis deficientibus valde differt!

9. **Septoria Tiliæ** Westend. Exs. n. 956. Kickx Fl. Fland. I. p. 430. 2562
Pass. Sept. Parm. n. 14. — Peritheciis amphigenis in macula fusca dein centro expallente, sparsis vel circinatis; sporulis bacillaribus rectis vel leniter curvis, 3-4-septatis, ut plurimum 35-40 \simeq 2-2 $\frac{1}{2}$, interdum multo longioribus.

Hab. in foliis vivis languidisve Tiliæ europææ in Italia, Austria et Belgio. — *Septoria Tiliæ* Auersw. verisimiliter eadem species est.

10. **Septoria ochraceo-maculans** Thüm. Contr. Myc. Lusit. n. 388. — 2563
Peritheciis sparsis, hypophyllis vel amphigenis, sæpe solitariis, globosis, submagnis, atris in macula valde irregulari, ochraceo-arescente, anguste sed distincte fusco-purpureo-cincta; sporulis oblongo-cylindraceis, rectis vel leniter arcuatis, hyalinis, medio uni-septatis constrictisve, quadriguttulatis, guttulis magnis, 12 \simeq 4.

Hab. ad folia viva Brachychitonis populnei, Coimbra Lusitaniæ in horto botanico (MOLLER).

11. **Septoria cinerescens** (Dur. et Mont.) Sacc. *Rhabdospora cine-* 2564
rescens Dur. et Mont. Fl. Alg. I. p. 592, Mont. Syll. crypt. p. 278. — Hypophylla; peritheciis congregatis depressis innatis, 100-150 μ . diam., epidermide nigrefacta initio tectis, eadem demum stella-

tim ruptâ cinctis, apice poro pertusis; sporulis cylindraceo-clavulatis vel utrinque attenuatis 3-4-septatis, 50 \approx 6-7, rectis v. leniter flexuosis.

Hab. in foliis dejectis Citri Aurantii, Bouzaréah Algeriæ.

12. **Septoria Arethusa** Penz. in Sacc. Mich. II. p. 434. — Maculis albis vel ochraceis, versiformibus; peritheciis minutis, 70-100 μ . d., demum erumpentibus, depressis, atro-brunneis; sporulis elongato-fusiformibus, leniter curvulis, utrinque acutatis, continuis vel 1-3-septatis, ad septa haud constrictis, 16-25 \approx 2-3,5. 2565

Hab. in maculis aridis foliorum vivorum Citri in frigidariis, Padova, Cattajo Ital. bor. — A *Sept. Limonum* sporulis duplo longioribus imprimis diversa.

13. **Septoria Citri** Pass. Flora 1877, n. 13 et in Thüm., Mycoth. univ. n. 495. Mich. II. p. 173 et 435. — Peritheciis minutis 50-80 μ . diam. fuscis, tectis, nunc maculiformiter aggregatis vel etiam late sparsis; sporulis pro ratione generis brevibus, subfusiformibus, continuis vel sæpe medio septatis, rectis, hyalinis, 14-18 \approx 2-3. 2566

Hab. in foliis languidis aridisque Citrorum in Italia, Hispania, Lusitania, Gallia, Istria. — β . **minor** Penz. in Mich. l. c.: sporulis fusiformibus frequentius medio septatis, hyalinis, 10-14 \approx 2,5-3. Cum typo.

14. **Septoria Limonum** Pass. Funghi Parmensi enumerati, in Atti Soc. Crittog. Ital. II. p. 23, Sacc. Mich. II. p. 437. *Septoria Hesperidearum* Catt. Mic. Agrum. p. 11. — Peritheciis punctiformibus, nigris depressis, 80-90 μ . diam., in maculis discoideis aggregatis; sporulis cylindricis, rectis, tenuibus, 8-15 \approx 1,5-2, continuis. 2567

Hab. in foliis fructibusque immaturis Citrorum, Parma (PAS-
SERINI), Pavia (CATTANEO), Bologna (GIBELLI), Padova (PENZIG).

15. **Septoria Cattanei** Thüm. Fungor. novor. exoticorum Decas altera n. 14, Sacc. Mich. II. p. 435. — Peritheciis amphigenis, dense gregariis, conicis, atris, primo epidermide tectis, parvulis in macula amphigena, sæpe marginali, arescendo ochracea, fusco anguste cincta; sporulis cylindraceis, rectis vel subarcuatis, utrinque obtusatis, enucleolatis, uniseptatis, achrois, 9-12 \approx 2-3. 2568

Hab. in foliis vivis Citri medicæ spontanæ, Canara, Ind. orient. (Doct. KECK).

16. **Septoria Tibia** Penz. in Sacc. Mich. II. p. 439. — Maculis fuscis vel brunneis; peritheciis dense aggregatis, concentrice dispositis, minutis, 100-120 μ . diam., epidermide tectis, demum erumpentibus, globoso-conicis; sporulis brevibus, 10-14 \approx 3-3,4, fusiformi- 2569



bus, rectis, sæpius inæquilateralibus, utrinque obtusiusculis, pluri-guttulatis, continuis vel (rarius) uniseptatis.

Hab. in foliis vivis Citri Limonum var. Limetta, in frigidariis, Strà prope Patavium in Ital. bor. (O. PENZIG). — β . **Limonix** Penz. l. c. maculis arescendo dealbatis; cetera speciei. In foliis semiemortuis Limonix australis cultæ in agro veneto.

17. **Septoria sicula** Penz. in Sacc. Mich. II. p. 438. — Maculis ob-²⁵⁷⁰soletis vel nullis; peritheciis laxè gregariis, epiphyllis, maiusculis, demum erumpentibus, depressis, brunneolis, circa ostiolum nigrescentibus; sporulis bacillaribus, rectis, utrinque rotundatis, continuis vel 1-2-septatis, hyalinis, 30-42 \approx 3,5-4, basidiis hyalinis, rectis, continuis, 8-10 \approx 3-3,5.

Hab. in foliis languidis vel delapsis Citri Limonum, Carini Siciliæ (V. BELTRANI).

18. **Septoria Sallix** W. R. Ger. Torr. Bot. Cl. Jun. 1874. — Macu-²⁵⁷¹lis majusculis, subcircularibus, pallidis, linea rubro-brunnea cinctis; peritheciis minutis, sparsis, nigricantibus; sporulis bacillaribus, hyalinis, curvulis, 18 \approx 2 $\frac{1}{2}$, continuis.

Hab. in foliis Aceris saccharini in Amer. boreali.

19. **Septoria Pseudoplatani** Rob. et Desm. 14 Not. 6, p. 21. — Ma-²⁵⁷²culis amphigenis, minutissimis, sparsis, suborbiculatis, rufis v. subochraceis in ambitu luteolis; peritheciis epiphyllis, paucis, conglomeratis, brunneis, latiuscule apertis convexis, dein collabescendo concavis; cirris albidis; sporulis bacillaribus, curvulis, 3-septatis, hyalinis, 45-55 \approx 3.

Hab. in foliis subvivis Aceris Pseudoplatani in Gallia et Germania.

20. **Septoria seminalis** Sacc. Mich. II. p. 167. — Maculis margina-²⁵⁷³libus oblongis, subochraceis; peritheciis gregariis, epiphyllis, lenticularibus, tectis, 90 μ . diam. pertusis, contextu tenui-parenchymatico, ochraceo; sporulis bacillari-fusoideis, falcatis 20-25 \approx 1 $\frac{1}{2}$ -2, utrinque acutis, guttulatis, hyalinis.

Hab. in folio seminali (cotyledone) languido Aceris campestris in horto patavino Ital. bor. (BIZZOZERO). — A *Sept. Aceris*, *Sept. Pseudoplatani*, *Glæosporio acerino* et *truncatulo* certe diversa.

21. **Septoria acerina** Peck 25 Rep. p. 87. — Maculis brunneis vel²⁵⁷⁴luteis centro brunneis, plerumque angulosis; peritheciis magnitudine et forma variis, collabentibus; sporulis filiformibus, curvatis, continuis vel indistincte septulatis, 32-40 μ . longis.

Hab. in foliis *Aceris striati*, Keene Amer. bor.

22. **Septoria acerella** Sacc. Mich. II. p. 102 (*Sept. acerina*). — Ma- 2575
culis epiphyllis, angulosis, minutissimis, candidis; peritheciis par-
cis, lenticularibus, exiguis; sporulis bacillaribus, curvis 20-22 \approx 2,
subcontinuis, hyalinis.

Hab. in foliis emortuis v. languidis *Aceris campestris*, Sain-
tes Gallix (BRUNAUD). — Ab aliis speciebus acericolis diversa.

23. **Septoria incondita** Desm. in Ann. Sc. natur. 1853, XX. p. 95 2576
(forma *acericola*). — Maculis amphigenis, irregularibus, rufis aut
brunneo-terreis, non limitatis, dein confluentibus; peritheciis hy-
pophyllis, minutissimis, numerosis, rufo-olivaceis, dein intense brun-
neis, innato-prominulis, poro apertis, dein planiusculis; cirris al-
bidis aut dilute corneis; sporulis elongatis tenuissimis rectis vel
curvatis, sæpe obtusis, 4-nucleatis, 30-40 \approx 3.

Hab. in foliis annuis rigidioribus *Acerum Pseudoplatani*
et *Platanoidis* in Gallia; in foliis *Aceris campestris*,
Gradisca in Litor. Austr.

24. **Septoria æsculina** Thüm. Symb. Myc. Austr. III. n. 64. — Pe- 2577
ritheciis plerumque amphigenis, pro ratione magnis, solitariis, par-
cissimis, punctiformi-globulosis, atris, in macula parva arescendo
candida perforataque, inferius dilute ochracea anguste atro-purpu-
reo-cincta; sporulis numerosis arcuatis utrinque obtusis, ut videtur
semper continuis, achrois, 36-44 \approx 3,5-5.

Hab. in foliis vivis *Æsculi Hippocastani*, Kalksburg in
Austria inf. — A *Septoria Hippocastani* et *Septoria Æsculi* valde
diversa dicitur.

25. **Septoria Hippocastani** Berk. et Br. Ann. N. H. n. 434. — Ma- 2578
culis rufis; peritheciis punctiformibus; sporulis filiformibus curvis
vel flexuosis, 55-60 \approx 2 $\frac{1}{2}$ continuis hyalinis; cirris minutis.

Hab. in foliis *Æsculi Hippocastani*, Parma Italiæ et in
Britannia.

26. **Septoria Æsculi** (Lib.) West. Bull. Acad. Brux. 1851, p. 394. 2579
Kickx Fl. I. p. 431. *Ascochyta Æsculi* Libert. Exs. p. 154. —
Maculis variis, arescendo rufescentibus; peritheciis lentiformibus,
pertusis; sporulis bacillari-fusoideis, curvulis, 50-60 \approx 3-3 $\frac{1}{2}$ utrin-
que obtusiusculis, 3-4-septatis, hyalinis.

Hab. in foliis *Æsculi* in toto agro veneto et parmensi in Au-
stria, Belgio, Gallia. — Sec. Passerini sporulæ tantum 32 \approx 3-3,5.

27. **Septoria ampelina** B. et C. North Americ. Fungi n. 440. — Ma- 2580

culis rufulis, aliis brunneis stellatis intermixtis; sporulis lineari-
bus curvatis, 30-50 μ . longis.

Hab. in foliis *Vitis*, Texas; in foliis *Vitis vulpinæ*, Aiken
Carolinæ.

28. **Septoria Badhami** B. et Br. Ann. N. H. n. 748, t. XV. f. 9. — 2581

Peritheciis hinc inde maculiformiter sub-conglomeratis, brunneis
amphigenis; sporulis clavatis, elongatis variis, crassiusculis, 50 μ .
longis, minute granulosis, rarius 1-2-septatis, hyalinis.

Hab. in foliis *Vitis* in Britannia. — An species, quæ in Thüm.
Pilz. d. Weinst. p. 180, sequenti modo describitur, eadem sit, val-
de dubito. — **Septoria Badhami** Berk. et Br. Outl. of fungology
p. 320. *Exosporium Badhami* Awd. Thüm. Pilze des Weinsto-
ckes p. 180. — Peritheciis parvulis, hypophyllis, dense gregariis
in maculis irregularibus, subfuscis, obsolete marginatis sparsis, in
foliorum pagina superiore maculas magnas late effusas, non limi-
tatas violaceo-fuscas formantibus, globulosis, prominulis, setis ri-
gidis, paucis tectis, atris; sporulis paucis, stipitatis, clavulatis, ver-
tice rotundatis, basi angustatis, bi-vel triseptatis, ad septa non
constrictis, dilute fuscescentibus, 16-18 \approx 6-8. — Ad folia subviva
languidave *Vitis viniferæ* in Thuringia (FLEISCHHAK). — «An
hæc potius *Cercosporæ* species?»

29. **Septoria vineæ** Passer. F. Parm. Sept. n. 22. — Peritheciis epi- 2582

phyllis in maculis exaridis, folium totum tandem marginantibus,
hinc illinc aggregatis, maculas fuscas parvulas efficientibus vel
sparsis; sporulis filiformibus rectis vel vix curvis, continuis, intus
granulosis, 12-18 \approx 1,5, hyalinis.

Hab. in foliis languescentibus *Vitis viniferæ*, Gajone pr.
Parma Italiæ.

30. **Septoria Melianthi** Sacc. Mich. II. p. 624. — Maculis subcircu- 2583

laribus, crebris, minutis, ochraceis, atrocinctis; peritheciis amphi-
genis, parcis, globulosis, obtuse papillatis, prominulis, 110-120 μ .
diam.; sporulis bacillaribus, curvulis, utrinque acutiusculis, 40-50
 \approx 3, spurie 3-septatis, hyalinis.

Hab. in foliis languidis *Melianthi* culti, Mortagne sur Gi-
ronde Galliæ (BRUNAUD).

31. **Septoria Coriariæ** Passer. Fungh. Parm. n. 28. — Peritheciis 2584

hypophyllis in maculis livido-fuscis irregularibus sparsis; sporulis
bacillaribus rectis vel vix curvulis, septulatis hyalinis, 30-35 \approx 2,5.

Hab. in foliis *Coriariæ myrtifoliæ*, Berceto in agro par-
mensi Italiæ.

32. **Septoria Staphyleæ** Passer. Fung. Parm. Sept. n. 26. — Peri- 2585
theciis in maculis rufis expansis arescentibus, hinc illinc aggrega-
tis; sporulis tenuissimis integris, rectis vel arcuatis, hyalinis, 16-
20 \approx 1.

Hab. in foliis languidis *Staphyleæ pinnatæ*, Parma Italiæ borealis.

33. **Septoria Rhamni** (Dur. et Mont.) Sacc. *Rhabdospora Rhamni* 2586
Dur. et Mont. Fl. Alg. I. p. 596, Mont. syll. crypt. pag. 279. —
Amphigena; maculis albo-carneis, fusco-marginatis; peritheciis
ovoideis 150 μ . diam., innato-prominulis tandem poro pertusis,
epidermide rupta cinctis; sporulis bacillaribus curvulis, exilissi-
mis, 40-50 \approx 2.

Hab. in foliis *Rhamni Alaterni* prope Medeah in Algeria (MONARD).

34. **Septoria nitidula** Dur. et Mont. Fl. Alg. I. p. 593. *Rhabdospora* 2587
nitidula Dur. et Mont. Syll. crypt. p. 278. — Epiphylla; peri-
theciis sphæricis in folio decolorato gregariis vel confluentibus
100-250 μ . diam., linea fusco-atra cinctis, nitidis, poro pertusis;
sporulis linearibus rectis obsolete 4-8-septatis, 20 \approx 4, sporopho-
ris quartam earum magnitudinis partem æquantibus.

Hab. in foliis *Rhamni Alaterni* circa Bougie Algeriæ.

35. **Septoria rhamnella** Oud. Matériaux pour la Fl. mycolog. de la 2588
Néerlande II. p. 22. (*Sept. Rhamni*). — Maculis in foliis langue-
scentibus flavescensibus rubro-variegatis subrotundis, nigrescenti-
bus, area diu virescente circumdatis; peritheciis in pag. sup. folii
in centro maculæ nunc solitariis, tunc binis vel ternis, exilissimis,
parum emergentibus, poro apicali præditis; sporulis linearibus, pa-
rum curvatis, hyalinis, continuis, 10-20 \approx 1,5, nonnumquam sub
forma globuli albidii e poro perithecii egredientibus.

Hab. in foliis *Rhamni Frangulæ*, Tourbières prope Acht-
tindhovem Hollandiæ. — An diversa a *Sept. Frangulæ*?

36. **Septoria Frangulæ** Guep. in Sacc. Mich. II. p. 346. — Maculis epi- 2589
phyllis, minutis, atro-rufis, circulo pallidioribus cinctis; peritheciis
paucis, lenticularibus; sporulis bacillaribus, longitudine variis, 18-
25 \approx 2, subcontinuis, hyalinis.

Hab. in foliis languidis *Rhamni Frangulæ* in Gallia (MAL-
BRANCHE).

37. **Septoria rhamnigena** Sacc. Mich. I. p. 180. — Maculis nullis; 2590
peritheciis hypophyllis, hinc inde dense gregariis, punctiformibus,
prominulis, nigris; contextu parenchymatico fuligineo; sporulis ba-

cillaribus, 20-25 \approx 1½-2, utrinque rotundatis, curvulis, obsolete guttulatis, hyalinis.

Hab. in foliis *Rhamni catharticæ*, Conegliano in Italia bor. (SPEGAZZINI). — A *Sept. Rhamni-catharticæ* Ces. longe diversa. — β . **Alaterni** Sacc. Mich. II. p. 101, a typo differt sporulis minoribus, nempe 15-16 \approx 1¾-2, arcuatis nubilosis, hyalinis. In foliis *Rhamni Alaterni*, Toulouse Gallia.

38. **Septoria cathartica** Passer. F. Parm. Sept. n. 29. — Maculis 2591 exaridis irregularibus griseis fusco-cinctis; peritheciis punctiformibus sparsis, utrinque perspicuis, subtus ostiolo fusco emersis; sporulis bacillaribus, rectis vel curvis, 10-20 \approx 2,5.

Hab. in foliis *Rhamni catharticæ* in agro Parmensi.

39. **Septoria Rhamni-catharticæ** Ces. in Kl. Herb. Myc. n. 1956. Sacc. 2592 Mich. I. p. 172. — Maculis epiphyllis arescendo expallentibus, atromarginatis; peritheciis punctiformibus, epiphyllis; sporulis cylindraceis, vehementer curvatis, 40-50 \approx 1½-2, 2-4-septatis, hyalinis.

Hab. in foliis languidis *Rhamni catharticæ*, Vercelli et Treviso Italiae bor. — β . **Rhamni saxatilis** Sacc. Myc. Ven. n. 546: sporulis cylindraceo-clavulatis, 40-50 \approx 3, pluriguttulatis hyalinis. In ejusdem foliis in agro Veneto.

40. **Septoria Saccardiana** Roum. F. Gall. n. 1886, Rev. Myc. IV. p. 2593 22. *Septoria Ascochyula* Sacc. Mich. II. p. 625. — Peritheciis hypophyllis, hinc inde dense maculiformi-aggregatis, globoso-lenticularibus, 70-80 μ . diam., pertusis, epidermide velatis; sporulis tereti-fusoideis, 20-25 \approx 2-2,5, utrinque obtusiusculis, 1-septatis, haud constrictis, hyalinis.

Hab. in foliis languidis *Rhamni Alaterni*, Bone Algeriae (DEBEAUX) et Nimes Gallia (ROUMEGUÈRE).

41. **Septoria? Evonymi-japonicæ** Passer. Fungh. Parm. Sept. n. 27. 2594 — Peritheciis amphigenis, sparsis tectis, pustulatim prominulis, vertice epidermidem radiatim vel denticulatim lacerantibus et marginulo albo coronatis; sporulis bacillaribus rectis, integris, hyalinis, 12-13 \approx 2,5; basidiis non visis.

Hab. in foliis siccis *Evonymi japonicæ*, Parma Italiae bor. — Ad *Phomam Ilicis* β . *Evonymi* accedit.

42. **Septoria Evonymi** Rabh. Flora 1848, p. 506. Sacc. Mich. I. p. 2595 172. — Maculis sæpius epiphyllis, arescendo pallentibus, latiusculis, vix marginatis; peritheciis punctiformi-lenticularibus, pertusis, parcis; sporulis filiformibus, lenissime curvulis, 20-25 \approx 1½, parce obsoleteque septatis, hyalinis.

- Hab.* in foliis *Evonymi europæi* in Germania et Ital. bor. 2596
43. **Septoriaascochyella** Sacc. Mich. II. p. 280. — Maculis olivaceis vel lutescentibus, vagis; peritheciis hinc inde aggregatis, lenticularibus, punctiformibus, 100 μ . diam., poro pertusis; sporulis tereti-fusoideis, 12-15 \approx 1 $\frac{1}{2}$ -2, rectis curvulisve, 1-septatis, hyalinis.
- Hab.* in foliis languidis *Paliuri aculeati* prope Padova Ital. bor. (BIZZOZERO).
44. **SeptoriaZizyphi** Sacc. Mich. I. p. 173. — Maculis arescendo albicantibus v. pallide ochraceis, fusco-marginatis, angulosis; peritheciis sparsis lenticularibus, punctiformibus, pertusis; sporulis filiformibus, 15 \approx 1, leviter curvis, hyalinis. 2597
- Hab.* in pag. super. foliorum *Zizyphi vulgaris*, Selva in Italia boreali.
45. **Septoriaorthospora** Lév. Ann. Sc. nat. 1848, p. 251. — Peritheciis epiphyllis, sparsis, obtectis, globosis, intus extusque nigris; ostioliis pertusis; sporulis linearibus, rectis, continuis, utrinque obtusis, pellucidis. 2598
- Hab.* in foliis *Ilicis Aquifolii*, Saint-Germain prope Parisios in Gallia.
46. **Septoriaexaminans** B. et C. North Americ. Fungi n. 435^{bis}. — Peritheciis gregariis punctiformibus ocellatis in folio dealbato sitis; sporulis filiformibus flexuosis 25 μ . longis. 2599
- Hab.* in foliis dealbatis *Ilicis* in America bor.
47. **Septoriailicifolia** C. et. Ell. in Grevillea. — Peritheciis punctiformibus, atris, semiimmersis, e macula pallida fusco-cincta oriundis; sporulis minutissimis, hyalinis. 2600
- Hab.* in foliis *Ilicis*, New Jersey Amer. bor.
48. **SeptoriaPistaciæ** Desm. Ann. Sc. Nat. 1842, p. 112. — Amphigena; maculis parvis, numerosis, suborbiculatis, fuliginosis; peritheciis innatis, minutissimis, nigris; cirris ochroleucis; sporulis linearibus rectis vel curvatis, 3-7 nucleolatis, plerumque 20 μ . long. 2601
- Hab.* in foliis languescentibus *Pistaciæ veræ* in Gallia, et *P. Lentisci*, Pola Istriæ.
49. **Septoriarhoia** B. et C. North Americ. Fungi n. 434 (*S. Rhoidis*). — Maculis parvis albis, margine lato nigro cinctis; perithecio centrali; sporulis vermiformibus, 75 μ . longis, flexuosis. 2602
- Hab.* in foliis *Rhois Cotini* etc., New England (SPRAGUE), Forestburgh, Buffalo Amer. bor. (PECK, CLINTON).
50. **Septoria? Rhois** (Wallr.) Sacc. *Helicobolus Rhois* Wallr. Fl. Crypt. n. 3646. — Peritheciis membranaceis nigro-fuscis minutissimis 2603

conglomeratis synphlæodeis, ex vertice tenuato stillam sporularum vermicelliformem lutescentem exerentibus.

Hab. in foliis languidis *Rhois typhinæ* in hortis Thuringiæ.

51. **Septoria Leveillei** Sacc. *Sept. Rhois* Lév. in Demid. Voy. p. 114, 2604
t. 5, f. 4 (non vidi), nec Wallr.

Hab. in foliis *Rhois* in Tauria.

52. **Septoria irregularis** Peck Bot. Gaz. 1880, p. 34. — Maculis mi- 2605
nutis, angulosis, confluentibus, initio in pag. sup. foliorum luteis
dein rubro-brunneis, fusco-marginatis, in pag. infer. brunneis vel
griseo-brunneis; peritheciis hypophyllis, quandoque amphigenis, ir-
regularibus, nigris; sporulis numerosis, filiformibus, hyalinis, 30-
45 μ . longis, subinde obsolete 1-septatis.

Hab. in foliis vivis *Rhois Toxicodendri*, Illinois Amer. bor.

53. **Septoria Ceratonix** Passer. Funghi Parm. Sept. ad n. 39 (in nota). 2606
— Peritheciis epiphyllis sparsis vel aggregatis, primo tectis, dein
erumpentibus, atris, poro apertis; sporulis bacillaribus, rectis in-
tegris, obscure nucleolatis, hyalinis, 12-15 \times 2-2,5.

Hab. in foliis putrescentibus *Ceratonix Siliquæ*, Licata
Siciliæ (BELTRANI), Porto Maurizio Liguriæ (G. GENTILE).

54. **Septoria Cercidis** Fr. in Lév. Ann. Sc. nat. 1848, p. 251. — Hy- 2607
pophylla; peritheciis innatis, punctiformibus, globosis, nigris, in
maculam conglomeratis; cirro albido; sporulis longis linearibus, re-
ctis vel flexuosis, 2-3-septatis, utrinque obtusis.

Hab. in foliis *Cercidis Siliquastri* in Delphinatu.

55. **Septoria Siliquastri** Passer. in Rabh. Fung. eur. 1878, Thüm. 2608
Mycoth. univ. 995. Just Botan. Jahresbericht II. p. 338. — Ma-
culis subcircularibus expallentibus; peritheciis sæpius epiphyllis,
punctiformi-lenticularibus; sporulis longe filiformibus flexuosis et
subtorulosis, continuis, intus granulosis.

Hab. in foliis subviviis *Cercidis Siliquastri* in agro par-
mensi et goritiensi.

56. **Septoria Robinix** Desmz. 17 Not. 6. p. 23. — Maculis irregula- 2609
ribus e flavido exaridis; peritheciis minimis sparsis, sepultis, pal-
lidis, cirro albido dehiscentibus; sporulis bacillaribus rectis vel le-
niter curvis, 25-28 \times 2,5 continuis hyalinis.

Hab. in foliis languescentibus *Robinix Pseudacaciæ* in
Gallia et Italia.

57. **Septoria curvata** (Rab. et Br.) Sacc. *Septosporium curvatum* Rab. 2610
et Braun, Krankh. d. Pflanz. p. 14, t. I. A. — Maculis imprimis
hypophyllis, brunneis, subcircularibus v. oblongis; peritheciis glo-

bulosis, obtusis, prominulis, atris, mox late apertis; sporulis cylindraceis, curvulis, utrinque obtusiusculis, 1-2-septatis, hyalinis, 40-60 \approx 5-6.

Hab. in foliis Robiniæ Pseudacaciæ, quæ mox elabuntur, in Germania, præcipue Berolini.

58. **Septoria Cytisi** Desm. 14. Not. 6. p. 24. — Maculis amphigenis, 2611 minutis, numerosis, albis, exaridis, brunneo-cinctis, subrotundatis; peritheciis 1-3, epiphyllis, fusco-nigris, minutissimis, poro apertis; sporulis longissimis, curvatis vel flexuosis, multiseptatis, hyalinis, 90-100 \approx 3,5.

Hab. in foliis vivis v. languidis *Cytisi Laburni in Italia et Gallia.

59. **Septoria Laburni** Passer. Funghi Parm. Septor. n. 30. — Peri- 2612 theciis punctiformibus, atris, vertice acuto, in maculis irregularibus arescendo dealbatis sparsis; sporulis bacillaribus, integris, hyalinis, rectis vel arcuatis aut flexuosis, 12-20 \approx 2.

Hab. in foliis languidis Cytisi Laburni, sociâ *Ascochyta Cytisi* Lib.? (sporulis biscoctiformibus, 1-septatis, hyalinis), Parma Italiæ (PASSER.), Malmedy (LIBERT).

60. **Septoria Emeri** Sacc. Mich. I. p. 173. — Maculis arescendo deal- 2613 batis, fusco-cinctis, variis; peritheciis paucis punctiformibus, lenticularibus, pertusis; sporulis filiformibus, utrinque acutatis, curvulis, 20 \approx $\frac{3}{4}$, continuis, hyalinis.

Hab. in foliis Coronillæ Emeri in silva Montello Ital. bor.

61. **Septoria Drymios** Mont. Fl. Chil. VII. p. 493. *Rhabdospora Dry-* 2614 *mios* Mont. Syll. crypt. p. 278. — Epiphylla; peritheciis innatis confertim gregariis globosis, tandem cupulari-collapsis, atris, poro lacero pertusis; cirro albo; sporulis baculiformibus obtusis subsessilibus, obscure septatis.

Hab. in foliis Drymidis chilensis in Chile (GAY).

62. **Septoria Rosæ** Desmz. Exs. n. 535. *Ascochyta Rosarum* Lib. 2615 Exs. n. 50? — Maculis fuscis, flavo-rubro-cinctis; peritheciis epiphyllis, minutis, depressiusculis, numerosis, brunneis; sporulis aciculari-clavulatis, 70-90 \approx 3,5-4, nubilosis, hyalinis.

Hab. in foliis Rosæ caninæ, R. pumilæ, R. scandentis in Gallia, Italia, Lusitania, Belgio. — var. **Sempervirentis** Dur. et Mont. Fl. Alg. p. 595. Epiphylla; maculis parvis fuscidulis, zona obscuriore cinctis; peritheciis innatis, sparsis fuscis minutis, 100 μ . crassis, tandem poro pertusis; sporulis cylindricis curvatis obscure 3-4-septatis, 30-50 \approx 2,5. In foliis vivis aut languescentibus

- Rosæ semperirentis circa Alger in Africa (DURIEU). An eadem ac *Sept. Rosæ-arvensis*?
63. **Septoria Rosæ-arvensis** Sacc. Mich. I. p. 176. M. V. n. 1019, 2616
Septoria rosana Thüm. Contr. Myc. Lus. n. 620. — Maculis pallidis, fusco-cinctis; peritheciis punctiformibus, epiphyllis, nigricantibus; sporulis acicularibus, 50-60 \approx 2½-3, obsolete 4-5-septatis, hyalinis.
Hab. in foliis Rosæ arvensis in silva Montello (SACCARDO), Rosæ sempervirentis, Chieti (PASSERINI), Rosæ cultæ pr. Coimbra (MOLLER). — Affinis *Septoriæ Rosæ*. An probe diversa a *Septoria Rosarum*?
64. **Septoria Rosarum** West. Bull. de Bruxell. 1851, p. 396. *Sept.* 2617
Rosæ β . *minor* West. et Wall. Exs. n. 426. — Epiphylla; maculis minutis, rotundatis, sparsis, pallidis purpureo-cinctis; peritheciis raris, semiemersis, nigris; sporulis flexuosis, cylindricis, utrinque obtusis, 3-6-nucleatis.
Hab. in foliis vivis Rosæ pumilæ et collinæ nec non Rosarum cultarum in Belgio, Anglia et Italia.
65. **Septoria ascochytoides** Sacc. Mich. I. p. 178. — Maculis sub- 2618
circularibus oblongisve, arescendo dilute ochraceo-fulvescentibus, atosanguineo-marginatis; peritheciis epiphyllis gregariis, lenticularibus, punctiformibus, distincte pertusis, ochraceis; sporulis cylindraceis v. subfusoides, 18-20 \approx 2½-3, 1-septatis, ad septum leniter constrictis, utrinque obtusiusculis, minute 4-guttulatis, hyalinis.
Hab. in foliis Spirææ decumbentis, Covolo, Treviso Ital. bor., et Spirææ cujusdam in Sibiria asiatica.
66. **Septoria Rubi** West. Exs. n. 938, Kickx Flor. Fl. p. 433. — Ma- 2619
culis rotundatis, brunneo-rufis dein centro albidis purpureo-cinctis; peritheciis epiphyllis, brunneo-nigris, depressiusculis, late pertusis, paucis; sporulis filiformibus, 40-55 \approx 1,5, obscure nucleolatis et obscurius 2-3-pluri-septulatis, hyalinis.
Hab. in foliis Ruborum in Belgio, Gallia, Italia, Britannia, Lusitania, Amer. bor. — *Sept. Rubi* R. et C. North Am. Fungi n. 436, *Depazea areolata* in Thüm. M. U. n. 296 et *Spilosphaeria Ruborum* Rabenh. non differre videntur. Sporulæ longitudine valde ludibundæ.
67. **Septoria Cratægi** Kickx, Flora crypt. Fl. II. p. 433. — Maculis 2620
brunneo-fuscis, pallescentibus, dein centro albido, non vel nigro-cinctis; peritheciis epiphyllis, minutis, prominulis, nigris; sporulis

filiformibus, acicularibus, curvulis, $60 \approx 1,5$, continuis v. obsolete septatis guttulisve, hyalinis.

Hab. in foliis Cratægi Oxyacanthæ et oxyacanthoidis in Gallia, Italia, Belgio, frequens.

68. **Septoria Cydoniæ** Fuck. Symb. mycol. p. 104. — Peritheciis gregariis, subconfluentibus, tectis, minutis, atris, ostioliis prominulis, perforatis; sporulis angustissime filiformibus, continuis, hyalinis. 2621

Hab. in foliis vivis languidisve Cydoniæ vulgaris in Germania, Austr. infer. et Italia bor.

69. **Septoria cydonicola** Thüm. Symb. Myc. Austr. n. 12. *Septoria Bolleana* Thüm. Contr. Funghi Litor. n. 193, t. I. f. 25. — Peritheciis globosis, epiphyllis, sparsis, emersis, parvis, atris in maculis exaridis, griseo-pallidis, irregularibus, vix vel non obscure marginatis; sporulis plus minusve cylindræis, minime curvulatis, utrinque obtuso-truncatis, bi-triseptatis, hyalinis, $10-14 \approx 3$. 2622

Hab. ad folia viva Cydoniæ vulgaris in agro goritiensi. — A *Sept. Cydoniæ* satis differt.

70. **Septoria Mespili** Sacc. Mich. I. p. 177. — Maculis arecendo subochraceis, rufocinctis, variis; peritheciis punctiformibus; sporulis bacillaribus curvulis, $30-35 \approx 1-1\frac{1}{2}$ continuis, hyalinis, pluriguttulatis. 2623

Hab. in pag. sup. foliorum Mespili germanicæ, Susegana Treviso Ital. bor., sociâ *Phyllostictâ Mespili* Sacc., nec non in Gallia pr. Saintes (BRUNAUD).

71. **Septoria piricola** Desmz. 18 Not. 7, p. 8. *Septoria dealbata* Lév. 2624 ex parte, *Sept. Piri* West. Exs. n. 136. — Epiphylla; maculis exaridis, albo-griseis, nitidulis, parvis, sparsis, subrotundatis vel irregularibus, anguste brunneo-marginatis; peritheciis paucis, minutis, prominulis, nigris, poro pertusis; cirris albidis v. olivaceis; sporulis filiformi-elongatis, curvulis, 2-septatis, multiguttulatis, $60 \approx 3,5$, dilute olivaceis.

Hab. in foliis vivis Piri communis in tota Europa. — Spermogonium *Sphærellæ Lucillæ* Sacc. videtur.

72. **Septoria nigerrima** Fuck. Symb. p. 104. — Peritheciis immersis maculæ albidæ insidentibus, cirros longos aterrimos protrudentibus; sporulis filiformibus, curvatis, septatis, utrinque obtusis, hyalinis. 2625

Hab. in foliis Piri communis in Rhenogovia. — « A *Sept. piricola* sporulis hyalinis differre videtur, sed quomodo cirri atris? »

73. **Septoria perularum** (Thüm.) Sacc. *Cryptosporium perularum* 2626 Thüm. in Wien. Landw. Zeit. 1879, p. 276. — Peritheciis subcu-

ticularibus minutissimis vix visibilibus punctiformibus, nigris, gregariis, membranaceis postremo apice apertis; sporulis numerosis fusiformibus, continuis utrinque acutatis, arcuatis vel subrectis, hyalinis 12-18-(sæpius 16) \approx 3,5-4.

Hab. in perulis subsiccis ramulorum vivorum Piri communis, Laibach Carniolæ (Voss).

74. **Septoria hyalospora** (Mont. et Ces.) Sacc. F. Ven. Ser. V. p. 204. 2627

Cryptosporium hyalosporum Mont. et Ces. Syll. p. 273. — Hypophylla, minutissima, gregaria; peritheciis hemisphæricis, $\frac{1}{4}$ mill. diam., tandem pertusis, atris; sporulis cylindræis in hemicyclum curvatis, 30 \approx 3 $\frac{1}{2}$, 1-septatis, hyalinis, pedicellatis.

Hab. in foliis languidis Sorbi torminalis in Italia et Germania. — *Septoria Sorbi* (Ces.) Fuck. in foliis Sorbi Ariæ in Italia, Britannia et Germania *Sphærellæ* initium sistit.

75. **Septoria Sorbi-hybridæ** Passer. Funghi Parm. Septoria n. 52. — 2628

A *Septoria piricola* differt sporulis multo longioribus, tenuioribus et multinucleolatis.

Hab. in foliis languidis caducisve Sorbi hybridæ, Parma in Italia boreali.

76. **Septoria disseminata** Desm. 14 Not. 6, pag. 23. — Epiphylla; 2629

peritheciis sparsis, minutissimis, epidermide nigrificata tectis, demum erumpentibus, poro apertis; cirris albidis; sporulis tenuissimis curvulis, rectiusculis, 15-20 \approx 1 $\frac{1}{2}$, nubiosis.

Hab. in foliis siccis Pruni Lauro-cerasi in Gallia.

77. **Septoria lauro-cerasina** Passer. Funghi Parm. Septor. n. 40. 2630

(*S. Lauro-cerasi*). — Peritheciis hypophyllis sparsis, tectis, subglobosis, atris; sporulis bacillaribus hyalinis, basidiis filiformibus plus minus longis fultis, 12 \approx 2,5.

Hab. in foliis siccis dejectis Pruni Lauro-cerasi, Parma in Italia boreali.

78. **Septoria Lauro-cerasi** Desm. et Grog. Fungi Gall. n. 126. — 2631

Maculis minutis circularibus, pallidis, vere peculiaribus; sporulis.... a me non visis.

Hab. in foliis Pruni Lauro-cerasi, Toulouse in Gallia.

79. **Septoria Pruni-Mahaleb** Therry in Roum. Rev. Myc. V. p. 178. 2632

— Maculis epiphyllis, minutis, rotundatis, brunneo-rubris, dein a matrice avulsis, leniter zonatis, in macula majore confluentibus; peritheciis brunneo-nigris prominulis poro pertusis; sporulis cirroalbido expulsis, longis, linearibus, arcuatis, hyalinis, 30 \approx 1.

Hab. in foliis Pruni Mahaleb, Lyon Galliæ (Therry).

80. **Septoria cerasina** Peck Rep. on the St. Mus. New York. — Ma- 2633
culis sparsis vel confluentibus, minutissimis, subangulosis, brunneis
vel rubro-brunneis; peritheciis paucis, siccis collapsis, quasi mar-
ginatis, pallidis vel succineis; cirris albis; sporulis longis, filifor-
mibus, sæpe valde curvatis 50-75 μ . longis.
Hab. in pagina inferiore foliorum Pruni serotinæ, Lake
Pleasant in America boreali.
81. **Septoria Pruni** Ellis Amer. Nat. 1882, p. 811. — Peritheciis in 2634
maculis brunneis deciduis, 1-3 mill. diam., immersis; sporulis cy-
lindræis, curvatis, obtusis, 4-6-septatis, 30-50 \approx 2.
Hab. in foliis Pruni americanæ, Lexington Amer. bor.
82. **Septoria Ravenelii** Thüm. Spec. Fung. Am. trig. Spec. n. 14. — 2635
Peritheciis hypophyllis, magnis, prominulis, aureis, patellæformi-
bus, irregularibus in maculis parvis, purpureis; sporulis longis,
fusiformibus, lunulato-curvatis, utrinque obtusiuscule acutatis, hya-
linis, obscure 3-4-septatis, 40-50 \approx 4, in cirros aureos erumpentibus.
Hab. in foliis languidis Cerasi carolinianæ, Aiken in Ca-
rolina austr. Americ. sept. (RAVENEL).
83. **Septoria effusa** (Lib.) Desm. in Ann. Sc. nat. 1847, VIII. p. 23. 2636
Sacc. Mich. II. p. 346, *Ascochyta effusa* Lib. Exs. n. 355. — Pe-
ritheciis in maculis rufescentibus subgregariis, punctiformibus, late
hiantibus; sporulis bacillaribus, curvulis, 20-25 \approx 1 $\frac{3}{4}$ -2, spurie 3-
4-septatis, hyalinis.
Hab. in foliis vivis Pruni Cerasi in Gallia et Gorizia.
84. **Septoria pallens** Sacc. *Gnomoniæ erythrostomæ* spermog. Fuck. 2637
Synb. p. 123. — Peritheciis (?) subsuperficialibus, gregariis, in
macula magna discolori, punctiformibus, orbicularibus, depressis,
diaphanis, pallidis; sporulis filiformibus, curvatis, continuis, lon-
gis, hyalinis.
Hab. in pag. infer. foliorum vivorum v. languentium Cerasi
Avium in Jura Helvetiæ (MORTIER).
85. **Septoria Photiniæ** Berk. et C. North Pac. Exp. n. 127. — Pe- 2638
ritheciis epidermide nigrificatâ medio ocellatâ tectis; sporulis re-
ctis brevibus linearibus.
Hab. in foliis Photiniæ in California.
86. **Septoria Calycanthi** Sacc. et Sp. Sacc. Mich. I. p. 176. — Maculis 2639
arescendo subochraceis; peritheciis punctiformibus, dense gregariis,
quandoque subconcentrice digestis, amphigenis, 100-150 μ . diam.;
sporulis cylindræis, utrinque leniter attenuatis, 15-25 \approx 1 $\frac{1}{2}$ -2 $\frac{1}{4}$,
medio 1-septatis raroque subconstrictis, rectis curvulisve, hyalinis.

Hab. in foliis languentibus Calycanthi floridi, Conegliano Ital. bor. (SPEGAZZINI), et in foliis Calycanthi levigati, Coimbra Lusitaniæ (MOLLER).

87. **Septoria phyllostictoides** Sacc. Mich. II. p. 101. — Maculis la- 2640
tis vagis, albicantibus; peritheciis epiphyllis punctiformibus, lenticularibus, 100 μ . diam.; sporulis fusoideo-bacillaribus, 12-15 = 1, rectiusculis, continuis v. 1-septatis, hyalinis.

Hab. in foliis Deutziaë scabraë pr. Rouen Galliaë (LETENDRE).

88. **Septoria ceuthosporoides** (Cooke) Sacc. *Cryptosporium ceutho-* 2641
sporoides Cooke et Harkn. Grev. 1881, p. 127. — Peritheciis deplanatis, fuscis, ceuthosporoideis, demum superne fissis; sporulis fusiformibus, curvatis, hyalinis, 18-20 = 3.

Hab. in foliis emortuis Eucalypti in California. — Habitus quasi *Ceuthosporæ phacidiodis*.

89. **Septoria Mortolensis** Penz. et Sacc. Funghi Mortol. n. 27. — 2642
Maculis nullis; peritheciis laxè gregariis, numerosis, majusculis, hypodermicis, dein erumpentibus, 150-200 μ . diam., sphæroideis, depressis, ostiolo paullum prominente, contextu parenchymatico, nigris, carbonaceis; sporulis longe cylindræis, rectis, utrinque rotundatis, integris vel spurie 1-2-septatis, plasmate granuloso fartctis, 50-55 = 3-3,5, basidiis brevibus, hyalinis, simplicibus.

Hab. in foliis delapsis Eucalypti amygdaloidis et Acaciaë sp., in foliis vivis Hederæ algeriensis, Mortola in Ital. bor. — Affinis *Septoriæ siculæ*.

90. **Septoria Jaborosæ** Speg. Arg. Pug. I. p. 188. — Maculis subro- 2643
tundis, confluento irregularibus, griseo-candicantibus, pellucidis, margine incrassato rufescente cinctis; peritheciis centro macularum densiuscule gregariis, minutis, 90-100 μ . diam., lenticularibus, atris, contextu parenchymatico, membranaceo, ostiolo latiusculo donatis; sporulis bacillari-filiformibus, rectis vel flexuosis, utrinque acutiuscule rotundatis, 25-30 = 1-1,5, hyalinis, 1-3-septatis.

Hab. in foliis vivis vel languidis Jaborosæ integrifoliaë vulgatissima ubique in agro bonariensi Argentinaë.

91. **Septoria Hederæ** Desmz. Ann. Sc. natur. 1843, XIX. p. 340, Sacc. 2644
Mich. I. p. 172. — Epiphylla; maculis suborbiculatis, eburneis, exaridis, ambitu lato et fusco-purpureo; peritheciis minutis, tectis; ostiolis nudis, globosis, poro apertis; sporulis linearibus, tenuissimis, guttulatis, hyalinis, flexuosis, 30-40 = 1-2.

Hab. in foliis Hederæ Helicis in Italia, Belgio, Gallia, Germania, Britannia.

92. **Septoria Desmazierii** Sacc. Mich. I. p. 172, *Sept. Hederæ* Desm. 2645
Not. XVII. p. 23. — Maculis nullis, peritheciis numerosis, sparsis, minutissimis, nigris, epidermide tectis, poro apertis; sporulis in semicirculum curvatis, bacillari-clavulatis, 20 μ . longis.
Hab. in foliis languidis *Hederæ Helicis* in Gallia.
93. **Septoria insularis** B. et Br. Ann. N. H. n. 747, t. 15, f. 8. — 2646
Maculis brunneis amplis distinctis; peritheciis initio epidermide elevata et centro pustulata tectis; sporulis filiformibus, leniter curvulis, 38 μ . longis.
Hab. in foliis semiemortuis *Hederæ* in Britannia.
94. **Septoria Grossulariæ** (Lib.) West. Crypt. belg. n. 944. *Asco-* 2647
chyta Grossulariæ Lib. Exs. n. 250. — Maculis initio brunneis dein albicantibus, centro aridis, fusco-cinctis; peritheciis epiphyllis, minutis, nigris, sparsis, poro amplo pertusis; sporulis linearibus, curvulis, 12-16 \approx 1, minute 6-7-guttulatis, hyalinis; cirro albido.
Hab. in foliis subvivi *Ribis Grossulariæ* in Italia, Belgio, Austria infer. — Sporulæ, sec. Kickx Fl. cr. Flandr. I. pag. 431, 10-12-guttulatae.
95. **Septoria sibirica** Thüm. Pilzfl. Sibir. n. 814. — Peritheciis epi- 2648
phyllis, sparsis, mediis, primo tectis demum liberatis, conicis, ostiolatis, nigris in maculis parvulis, sinuosis, arescendo sordide candidis, anguste fusco-marginatis; sporulis tenuissimis, gracillimis, bacillaribus, utrinque truncatis, continuis vel obsolete uni-triseptatis, semper curvatis, sæpe lunulatis, hyalinis, 55-75 \approx 1,5.
Hab. ad folia viva *Ribis acicularis* in rupestribus pr. Kavaskoje in Sibiria asiatica. — A *Septoria Grossulariæ* Westd. et *S. Ribis* Desm. sporulis triplo vel duplo majoribus longe diversa!
96. **Septoria Ribis** Desmz. Mem. Soc. des Sc. de Lille, 1842. *Asco-* 2649
chyta Ribis Lib. Exs. n. 53. *Phlæospora Ribis* West. Bull. Bruxell. 1850, p. 20. — Hypophylla; maculis parvulis, irregularibus, venulis cinctis, brunneo-purpurascensibus; peritheciis innatis, minutissimis, convexis, fusco-nigrescentibus, demum ore orbiculari late apertis; cirris roseis, sporulis elongatis, linearibus, curvatis, pluri-nucleolatis, 50 μ . longis.
Hab. in foliis languescentibus *Ribis nigri* in Gallia, Germania et Anglia.
97. **Septoria Aucubæ** West. Bull. ac. roy. belg. II. Ser. t. XII. n. 7. 2650
— Maculis epiphyllis, latis, irregularibus, brunneo-pallidis, fusco-marginatis; peritheciis nigris, lucidis, sparsis; cirris albidis; sporulis cylindricis, 30 \approx 2,5.

Hab. in foliis Aucubæ japonicæ in Belgio (MARTENS et DUMONT).

- 98 **Septoria Corni-maris** Sacc. Mich. I. p. 178. — Maculis amplis, 2651
irregularibus, sæpe marginalibus, fuscis, zona saturatiore cinctis;
peritheciis punctiformibus, lenticularibus pertusis; sporulis bacil-
laribus, curvulis 15-30 \approx 1³/₄-3, utrinque obtusis, initio plurigut-
tulatis, dein 3-4-septatis, hyalinis, in cirros albidos protrusis.

Hab. in pag. sup. foliorum Corni maris, Colfosco, Treviso, Italiae borealis.

99. **Septoria cornicola** Desmz. Exs. n. 342, Kieckx Fl. cr. Flandr. I. 2652
p. 430. *Sept. Corni* Niessl, *Depazea cornicola* DC. Fl. fr. VI. p.
146 ex parte. — Maculis orbicularibus, griseis, nigro-purpureo
marginatis; peritheciis epiphyllis, sparsis, nigris, depressulis; spo-
rulis cylindræis, curvulis, 35-40 \approx 2-2,5, obsolete 2-4-septatis,
hyalinis; cirro subalbido.

Hab. in foliis Corni sanguineæ in Italia, Belgio, Gallia, Britannia, Germania, Austria.

100. **Septoria Xylostei** Sacc. et Winter, Hedwigia 1883, p. 181. — 2653
Maculis amphigenis, candicantibus, atro-marginatis, minutis; peri-
theciis lenticularibus, tectis, 120-150 μ . diam., pertusis, circa ostio-
lum densioribus; sporulis filiformibus, subcurvis, 40-60 \approx 1,5, hya-
linis, 6-8-guttulato-subseptatis.

Hab. in foliis vivis v. languidis Lonicæ Xylostei, Zürich, Helvetiæ.

101. **Septoria obscurata** Thüm. Contr. Myc. Lusit. n. 389. — Peri- 2654
theciis epiphyllis, paucis, gregariis, submagnis, emerso-conicis,
atris in maculis obscuris, cinereis, orbiculatis, opacis, subexaridis,
margine nigro purpurascente oblitterato cinctis, subtus subfuscis;
sporulis rectis, cylindræis, utrinque obtuse rotundatis, obsolete
biseptatis, ad septa non constrictis, achrois sed impellucide grumu-
losis, 12 \approx 4.

Hab. in foliis vivis Lonicæ Periclymeni, Coimbra Lusitaniæ (MOLLER).

102. **Septoria sambucina** Peck, 28 Rep. on the St. Mus. N. Y. — 2655
Maculis aridis, albidis late fusco-cinctis, brunneis vero vel purpu-
reo-brunneis in hypophyllo; peritheciis superficialibus, paucis, mi-
nutis; sporulis longis, filiformibus, plus minusve curvatis, obscure
6-septatis, 50-75 μ . longis.

Hab. in foliis Sambuci canadensis, Buffalo Amer. bor.

103. **Septoria Leycesteriæ** Sacc. et Sp. Sacc. Mich. I. p. 177. — Ma- 2656

culis subcircularibus sinuosisque, ochraceis, brunneo-cinctis; peritheciis laxè gregariis, amphigenis, punctiformibus, lenticularibus 100-200 μ . diam. pertusis, contextu tenui-membranaceo, celluloso, dilute olivaceo; sporulis cylindraceis, curvulis, 25-30 \approx 3-4, 1-septatis, quandoque constrictis, obsolete 2-4-guttulatis, hyalinis.

Hab. in foliis *Leycesteriæ formosæ*, Conegliano Ital. bor. (SPEGAZZINI).

104. **Septoria Viburni** West. Bull. Soc. de Brux. 1852, XIX. part. 3, 2657 p. 121. — Peritheciis epiphyllis, minutis, semi-emersis, nigris in maculis irregularibus centro albidis, brunneo-cinctis; sporulis cylindraceis, utrinque obtusis, 5-7-guttulatis, hyalinis.

Hab. in foliis *Viburni Opuli*, *V. Lantanæ* in Belgio, Italia, Britannia.

105. **Septoria albo-punctata** Cooke in Grev. XII. p. 25. — Maculis 2658 epiphyllis minutis, albis, purpureo-cinctis; peritheciis 1-2 in centro maculæ insidentibus; sporulis linearibus, nucleatis, hyalinis, 60-70 \approx 2.

Hab. in foliis *Vaccinii arborei* in Carolina austr. Americæ borealis.

106. **Septoria difformis** C. et Peck Rep. on the St. Mus. N. Y. — Ma- 2659 culis suborbicularibus, brunneis; peritheciis aggregatis, nigris, amphigenis; sporulis profusis, linearibus, rectis vel curvatis hyalinis, 15 μ . longis, in massulas albas v. glaucas dein ejectis.

Hab. in foliis vivis *Vaccinii pensylvanici*, Lake Pleasant Amer. bor.

107. **Septoria stemmatea** (Fr.) Berk. Ann. Nat. Hist. n. 192. *Sphæ-* 2660 *ria* (Depazea) *stemmatea* Fr. S. M. II. p. 528. — Epiphylla gregaria; peritheciis globosis, minutis, in maculis aridis dealbatis rotundatis sparsis; sporulis.....

Hab. in foliis *Vaccinii Vitis-ideæ* in Suecia, Anglia, Italia, Rossia. — Sistit maculas subrotundas, 2-3 lin. latas, subexaridas, sordide fuscæ, cui insident perithecia numerosa, minuta, sublibera, et epidermide lactea laxè tecta; dein, excussa epidermide, nuda, opaca, evacuata subcircumscissa. «Sporulas nondum reperire licuit, sed nucleum (ascigerum?) immaturum.»

108. **Septoria Unedonis** Rob. et Desm. 14 Not. 1847, p. 20. — Ma- 2661 culis epiphyllis, minutis, numerosis, irregularibus, albido-exaridis, ambitu lato purpurascens; peritheciis paucis, innato-prominulis, nigrescentibus, convexis collabascendo concavis; sporulis elongatis, tenuissimis, curvulis, subcontinuis, 25 \approx 1½.

- Hab.* in foliis languescentibus *Arbuti Unedonis* et *Arb. canariensis* in Gallia, Britannia, Lusitania, Italia et Austria inf.
109. **Septoria Rhododendri** Cooke in Grevillea. — Epiphylla; ma- 2662
culis orbicularibus, pallidis, atro-purpureo-cinctis; peritheciis punctiformibus, aggregatis vel circinatis; sporulis filiformibus, 40 μ . longis.
- Hab.* in foliis *Rhododendri*, Maine Amer. bor.
110. **Septoria pulchella** B. et C. North Amer. Fungi n. 435. — Ma- 2663
culis rufulis lineâ nigrâ circumdatis; peritheciis punctiformibus; sporulis lineari-oblongis, 5 μ . longis.
- Hab.* in foliis *Andromedæ*, Alabama Amer. bor.
111. **Septoria Stigma** B. et C. North Amer. Fungi n. 440^{bis}. — Pe- 2664
ritheciis punctiformibus in areis foliorum dealbatis insidentibus; sporulis linearibus brevioribus, 15 μ . longis.
- Hab.* in foliis *Symploci*, Alabama Amer. bor.
112. **Septoria Symploci** Ell. et Mart. Am. Nat. 1882, p. 1002. — Ma- 2665
culis albis, 1-1,5 mill. diam., brunneo-cinctis; peritheciis brunneis, subglobosis, hypophyllis, semiimmersis, irregulariter sparsis, 112 μ . diam.; sporulis hyalinis, cylindrico-clavatis, spurie 2-3-septatis, curvatis, 24-30 = 3.
- Hab.* in foliis languidis *Symploci tinctoriæ*, Green Cove Springs Amer. bor.
113. **Septoria Bumeliæ** Sacc. Mich. I. p. 180. — Maculis nullis v. 2666
obsoletis; peritheciis plerumque hypophyllis, hinc inde maculiformiter dense congregatis, globoso-lenticularibus, prominulis 70-100 μ . diam., pertusis; sporulis fusoido-bacillaribus, 10-15 = 1 $\frac{1}{4}$ -2, rectis curvulisve, 2-nucleatis (simulate 1-septatis) hyalinis.
- Hab.* in foliis languidis *Bumeliæ lycioidis* in horto patavino Ital. bor. — Ad genus *Ascochyta* nutat.
114. **Septoria Jasmini** Reum. Revue Mycolog. IV. pag. 22. Fungi gal- 2667
lici n. 1887. — Maculis epiphyllis pustulatis, brunneis dein albis, brunneo-marginatis, circularibus dein confluentibus difformibus; peritheciis paucis, 2-5 nigris, rariter fertilibus; sporulis fusiformibus hyalinis, in cirros albos expulsis, 6-10 μ . long.
- Hab.* in foliis *Jasmini* in Gallia.
115. **Septoria Sambac** Passer. Septor. Parm. n. 86. — Maculis sub- 2668
rotundis albo-exaridis, fusco-marginatis; peritheciis epiphyllis punctiformibus atris, primo tectis, dein epidermide fissa cinctis; sporulis bacillaribus rectis hyalinis, 15 = 2.
- Hab.* in foliis *Jasmini Sambac*, Parma Italiæ bor.

116. **Septoria elæospora** Sacc. Mich. I. p. 178. — Maculis vagis are- 2669
scendo ochraceis v. brunneis margine saturatiore cinctis; perithe-
ciis epiphyllis, sparsis, innato-prominulis, punctiformibus, lenticu-
laribus, 100 μ . diam. pertusis, laxe cellulosi, ochraceo-fuligineis;
sporulis bacillari-fusoides, rectis v. leniter curvulis, 25 \approx 3, utrin-
que obtusiusculis, 3- (raro 4-septatis) e hyalino olivaceis.

Hab. in pag. super. foliorum Fraxini Orni, F. excelsioris
et F. pubentis, Selva Ital. bor., Parenzo Istriæ et Coimbra Lusi-
taniæ. — A *Sept. Orni* Pass. et *S. Fraxini* Desm. rite diversa.

117. **Septoria Orni** Pass. Hedw. 1876 p. 108. Myc. univ. n. 395. Sacc. 2670
Mich. I. p. 177. — Peritheciis minutis, tectis, in maculis sordidis,
fuscis, effusis; sporulis in cirrum albidum ejectis, filiformibus, bre-
viusculis, rectis vel flexuosis, continuis vel remote et obsolete gut-
tulato-septulatis, intus granulosis, 25-30 \approx 1,5.

Hab. in foliis vivis vel languidis Fraxini Orni, Parma (PAS-
SERINI), Treviso (SACCARDO).

118. **Septoria Besseyi** Peck Bull. Tor. Cl. 1875, p. 77. — Hypo- 2671
phylla; peritheciis sparsis in tota pagina inferiore, prominulis, ini-
tio pallide ferrugineis vel subochraceis, dein nigris; sporulis la-
tiusculis, cylindratis, obtusis, curvulis, nucleatis, 40-55 \approx 4, in
massulas albas v. cirros breves crassos erumpentibus.

Hab. in foliis vivis Fraxini, Ames, Iowa Amer. bor. — «Ex
ipso cl. Peck cum *Sept. Fraxini* esset conjungenda, at e diagnosi
mihi satis diversa videtur».

119. **Septoria Fraxini** Desm. Exs. n. 1086, nec Fr. (quæ *Cercospo-* 2672
ra), *Sept. Badhami* β . *Fraxini* Auersw. — Hypophylla; perithe-
ciis minutis, nigris, semi-innatis, in maculis irregularibus sparsis;
sporulis cylindratis, utrinque truncatis, nucleolatis.

Hab. in foliis vivis Fraxini excelsioris, Fr. Orni in Gal-
lia, Italia, Germania, Belgio, Britannia, Lusitania, Florida Am. bor.
— Sporulas nondum vidi, sed tantum perithecia crebra prominula,
forte *Sphaerellæ* initium.

120. **Septoria Syringæ** Sacc. et Sp. Sacc. Mich. I. p. 176. — Macu- 2673
lis amphigenis, versiformibus, dilute ochraceo-lutescentibus, satu-
ratius marginatis; peritheciis sparsis punctiformibus, lenticularibus
100-120 μ . diam., latiuscule pertusis, contextu laxo parenchymatico
subochraceo; sporulis cylindratis-bacillaribus, 14-18 \approx 1 $\frac{1}{2}$ -2 $\frac{1}{2}$,
utrinque rotundatis, rectis curvulisve, obsolete 1-septatis, hyalinis.

Hab. in foliis Syringæ vulgaris, Conegliano Ital. bor. (SPER-
GAZZINI), Saintes in Gallia (BRUNAUD). — Forte huc spectat *Sept.*

Syringæ West. « Les Crypt. d'après leurs stations » pag. 68 (nomen), sed diagnosim v. exemplar nullibi reperire potui.

121. **Septoria Phillyreæ** Thüm. Contr. Mycol. Lusit. n. 614. — Peritheciis amphigenis, solitariis vel paucis, magnis, lenticulari-punctiformibus, atris, emersis in macula parvula, arescendo-grisea, plus minusve sinuosa, fusco-nigro-marginata, in pagina folii inferiore fuscidula; sporulis bacillari-cylindræis, rectis vel leniter arcuatulis, utrinque angustatis subacutatisve, triseptatis, achrois, 42-48 \approx 4-5.

Hab. in foliis vivis Phillyreæ latifoliæ. Coimbra Lusitaniæ (MOLLER).

122. **Septoria Oleæ-chrysophyllæ** Pass. F. Abiss. p. 191. — Peritheciis punctiformibus, acutis, dense sparsis, paginæ sup. totam superficiem occupantibus; sporulis cylindræis, rectis v. vix curvis, utrinque obtusis, guttulatis, 7-8 \approx 1½ (an potius 15 \approx 3?).

Hab. in foliis Oleæ chrysophyllæ in Abyssinia. — « Verisimiliter non valde diversa a *Phoma Oleæ* ».

123. **Septoria crateriformis** (Dur. et M.) Sacc. *Ascospora crateriformis* Dur. et M. Fl. Alg. et Syll. n. 1005. *Sphæria Oleæ* var. β . *Phillyreæ* Montag. Ann., 2, I. p. 342. — Amphigena; peritheciis gregariis ovoideis innato-erumpentibus atro-nitentibus, apice poro amplo pertusis, tandem elabentibus foveolamque relinquentibus; sporulis linearibus pluriguttulatis, 15 \approx 2,5, basidiis paullo brevioribus.

Hab. in foliis Phillyreæ mediæ et latifoliæ in Gallia et apud Alger. — « *Phomæ Oleæ* affinis. »

124. **Septoria erythrostoma** (Dur. et M.) Sacc. *Ascospora erythrostoma* Dur. et M. Fl. Alg. et Syll. n. 1008. — Hypophylla; peritheciis sparsis innatis, ostiolo prominulo epidermide rubefacta cincto instructis; cirris....; sporulis cylindricis rectis specie septatis seu guttulas globosas uniseriatis foventibus.

Hab. in folio Phillyreæ Alger (DURIËU).

125. **Septoria Chionanthi** Cooke in Hedwigia, 1878, p. 38. — Hypophylla; peritheciis æruginosis, membranaceis, semiimmersis, numerosissimis, punctiformibus; sporulis linearibus, brevibus, obtusis, hyalinis, 8 μ . longis.

Hab. in foliis Chionanthi virginici, S. Carolina (RAVENEL).

126. **Septoria Olivæ** Pass. et Thüm. Contr. Myc. Lusit. n. 609. — Peritheciis plerumque epiraro etiam hypophyllis, conicis, dense gregariis, mediis, aterrimis, sine macula; sporulis bacillaribus, le-

niter arcuatis, utrinque obtusatis, continuis vel obscure uniseptatis, hyalinis, 16-18 \approx 4.

Hab. ad folia arida prostrata Oleæ sativæ Penedo da Saudade pr. Coimbra Lusitaniæ (MOLLER). — *Septoriæ* (Phomæ) *Oleæ* Dur. et Mont. facie similis sed sporidia plane diversa. Confer etiam *S. Evonymi japonicæ* Pass., *S. Ceratoniæ* Pass., *S. Laurocerasi* Pass., quæ sporulis similibus cum illa conveniunt.

127. **Septoria japonica** Thüm. Contr. Funghi Litor. n. 354. — Ma- 2680
culis obsoletis vel nullis; peritheciis in partibus foliorum emortuis, amphigenis, dense gregariis, pro ratione magnis, hemisphærico-lenticularibus, nitido-aterrimis; sporulis bacillaribus vel acicularibus, rectis, raro subarcuatis, utrinque angustato-acutatis, continuis vel raro obscure uniseptatis, hyalinis, 12-15 \approx 2-2,5.

Hab. in foliis aridis Ligustri japonici, Gorizia in Ital. bor.

128. **Septoria Ligustri** (Desm.) Kichx Flandr. I. p. 354. *Depazea Li-* 2681
gustri Desm. Exs. n. 776. — Maculis pallide ochraceis, latis, amphigenis, irregularibus, rufo-marginatis; peritheciis globulosis, epiphyllis, punctiformibus, sparsis, numerosis; sporulis cylindræis, utrinque obtusis, curvulis v. flexuosis, guttulatis, hyalinis.

Hab. in foliis languidis Ligustri vulgaris in Gallia et Belgio. — Sporulæ in exemplaribus gallicis a me visis metiuntur 15 \approx 1.

129. **Septoria neriiicola** Passer. Sept. Parm. n. 89. — Maculis nullis; 2682
peritheciis carbonaceis, erumpentibus, minutis, papillatis, hypophyllis; sporulis brevibus et tenuibus rectis, vel vix curvis, integris, hyalinis.

Hab. in pag. inf. foliorum Nerii Oleandri, Parma in Italia. — Tum a *Sept. Oleandri* Mont., tum a *Sept. oleandrina* Sacc. rite diversa.

130. **Septoria oleandrina** Sacc. Fungi Veneti V. p. 205. M. V. n. 533. 2683
Septoria Nerii (Auersw.?) Thüm. F. Austr. n. 692. — Maculis epiphyllis, subrotundis angulosisve confluentibusque, arescendo candidantibus; peritheciis remotiusculis, grandiusculis, 140-150 μ . diam., globulosis, poro amplo pertusis, contextu distincte parenchymatico fuligineo; sporulis filiformibus, inæquilongis, sæpe curvulis, quandoque clavulatis, 15-25 \approx 1½-2, obsolete septulatis, hyalinis.

Hab. in foliis languidis Nerii Oleandri in Italia, Gallia, Austria infer. — A *Sept. Oleandri* Dur. et M. valde diversa. *Depazea Nerii* Auersw. mihi ignota est, sed verisimiliter eadem ac mea species censenda est.

131. **Septoria Paulowniæ** Thüm. Contr. Mic. Litor. n. 194, t. I. f. 2684

15. — Peritheciis dense gregariis, epiphyllis, conicis, prominulis, ostiolatis, parvis, nigris in macula plus minusve orbiculata, exarida, griseo-fusca, zonata, dein lacerata; sporulis cylindraceutis, rectis, utrinque obtuse rotundatis, uni- vel raro biseptatis, numerosis, hyalinis, 7-10 = 2-2,5.

Hab. in foliis vivis languidisve Paulowniæ tomentosæ, Gorizia in Ital. bor. et Toulouse Galliæ.

132. **Septoria Thümenii** Sacc. *Depazea Buddlejæ* Thüm. F. Austr. 2685 Afr. n. 66. — Peritheciis sparsis, erumpentibus in foliorum paginæ superioris macula rufo-brunnea, distincta, minutis, atris; sporulis fusiformibus, curvatis, uni- sed pro maxima parte non septatis, 20 = 6 hyalinis.

Hab. in foliis vivis Buddlejæ auriculatæ in dumetis montis « Boschberg » prope Somerset-East, Promont. bonæ spei, in consortio *Meliolæ quinquesporæ* (P. MAC-OWAN).

133. **Septoria Buddlejæ** Kalch. et Cooke in Grev. 1880, p. 20. — Epiphylla; maculis irregularibus, fuscis, hinc illinc confluentibus; peritheciis membranaceis, semiimmersis; sporulis linearibus, rectis vel flexuosis, hyalinis, 40-50 μ . longis.

Hab. in foliis Buddlejæ salvifoliæ in Africa australi.

134. **Septoria Cestri** (Mont.) Sacc. *Rhabdospora Cestri* Mont. Syll. 2687 crypt. p. 277. — Epiphylla, depazeoides; maculis amphigenis, orbicularibus, albis, fusco-limbatis; peritheciis globoso-depressis, siccitate collabentibus, atris opacis, poro pertusis; sporulis acicularibus rectis aut vix curvulis, obsolete septatis. (20 = 55 X 1)

Hab. in foliis Cestri Parqui in Chile (BERTERO).

135. **Septoria Hippophaës** Desmz. et Rob. 21 Not. 1853, p. 2. — Maculis nullis; peritheciis hypophyllis raro epiphyllis, 150 μ . diam. sæpius sparsis, innato-prominulis, globosis, fusco-nigrescentibus; cirris helvolis; sporulis longissimis, curvatis, 60-75 = 2,5.

Hab. in foliis Hippophaës rhamnoidis in Gallia.

136. **Septoria Daphnes** Desmz. Ann. Sc. nat. 1843, XIX. pag. 339. 2689 *Leptothyrium Mezerei* Lib. Exs. n. 360. — Amphigena; maculis viridibus, irregularibus, indeterminatis; peritheciis perexiguis, sparsis vel gregariis, epidermide tectis ampulliformibus pallidis; cirris albidis; sporulis clavatis brevioribus, apice acutis, 2-4-nucleatis, subhyalinis, 20 μ . longis.

Hab. in foliis languescentibus Daphnes Mezerei in Gallia et Germania. — Fere absque dubio eadem ac *Marsonia Daphnes*.

137. **Septoria argyræa** Sacc. Mich. I. p. 127. — Maculis arescendo 2690

ochraceis variis sæpe fusco-cinctis; peritheciis punctiformibus lenticularibus gregariis, $\frac{1}{10}$ - $\frac{1}{12}$ mill. diam., pertusis; sporulis cylindraceis, rectiusculis v. tortuosis, 20-30 \approx 2 $\frac{1}{2}$ -3, utrinque obtusiusculis, hyalinis, dein in cirros breves carneolos protrusis.

Hab. in pagina superiore foliorum *Elæagni* argenteæ in horto botanico S. Giobbe Venetiis (P. MAGNUS). — A *Septoria Elæagni* Desm. differt sporulis septatis aliisque notis.

138. **Septoria phacidioides** Desm. 13 Not. p. 67. *Phacidium Buxi* 2691

Frank, sec. West. — Erumpens, hypo-rarius epiphylla, sparsa, numerosa, epidermide lacerata cincta; peritheciis globosis, fusco-nigris; ostiolis punctiformibus, nucleo gelatinoso; cirris tenellis, albis; sporulis magnis, oblongis, utrinque obtusis, 33 \approx 10.

Hab. in foliis *Buxi* in Gallia et Belgio. — «Vix *Septoria*.»

139. **Septoria kalmiæcola** (Schw.) Berk. et Curt. North Am. Fungi 2692

p. 74, *Sphæria* (Depazea) *Kalmiæcola* Schw. Sacc. Syll. II. p. 440.

— Maculis candidis orbiculatis, margine intumescente cinctis et folia circumcirca nigrificantibus; peritheciis convexis, atris, concentricis, innatis; sporulis septorioideis.

Hab. in foliis *Kalmiæ latifoliæ* etc. in Carolina et Pennsylvania.

140. **Septoria (?) Celtis-gallæ** W. R. Ger. Bull. Torr. 1875, p. 78. — 2693

Maculis nullis; peritheciis minutissimis, nigris, immersis, sparsis; sporulis non visis.

Hab. in gallis foliorum *Celtidis occidentalis*, New Paltz Sanding in Amer. bor. — «Ignotis sporulis, species perdubia».

141. **Septoria (?) Celtidis** Sacc. M. V. n. 552 et Fungi Ven. Ser. V. 2694

p. 204. — Maculis obsolete; peritheciis globosis, membranaceis, poro pertusis, 350-450 μ . diam., atris; sporulis raris, cylindræo-clavulatis, curvulis, 40 \approx 3, 3-5-septatis guttulatisque, hyalino-fusculis.

Hab. in foliis languidis *Celtidis australis*, Vittorio (Treviso) Ital. bor. — A genere nonnihil extorris.

142. **Septoria Pipulæ** Cooke in Grevillea. — Maculis purpureo-brun- 2695

neis, irregularibus, amphigenis; peritheciis immersis, indistinctis, tenuibus, epiphyllis; sporulis filiformibus, multi-nucleatis, 50-60 μ . longis.

Hab. in foliis *Fici religiosæ* (vulgo *Pipula*), Belgaum India (HOBSON).

143. **Septoria arcuata** Cooke Grevill. II. p. 100. — Epiphylla; ma- 2696

culis albidis, orbicularibus, purpureo-cinctis; peritheciis minimis,

immersis, ostiolo papillato, exserto; sporulis linearibus, arcuato-curvatis, multi-nucleatis 40-50 μ . longis.

Hab. in foliis Fici, Belgauum Indiæ (HOBSON).

144. **Septoria brachyspora** Sacc. Mich. I. p. 529. — Maculis variis 2697
arescendo expallentibus, ochraceo-marginatis; peritheciis paucis punctiformibus, lenticularibus, late hiantibus, 80 μ . diam., contextu fusco-cinereo; sporulis, bacillaribus, curvulis, 12-15 \approx 1, hyalinis.

Hab. in foliis Fici elasticæ in calidariis, Saintes Galliæ (BRUNAUD).

145. **Septoria crustacea** Welw. et Curr. Fungi Angolenses VI. p. 286. 2698
— Peritheciis minutissimis, crusta nigra insertis et in acervulos multiformes confluentes, ostiolis minutis punctiformibus instructos compactis; sporulis filiformibus tenuibus, pallidis, longitudine variis.

Hab. ad folia arboris familiæ Artocarpearum, Trombeta, Golungo alto, Angolæ. — «An *Cytosporinæ* affinior.»

146. **Septoria Artocarpi** Cooke Some Indian Fungi, in Grevillea. — 2699
Peritheciis aggregatis, in maculis brunneis orbicularibus insidentibus; sporulis minutis linearibus, 10 μ . longis.

Hab. in foliis Artocarpi integrifoliæ, Mysore Indiæ.

147. **Septoria Excæcariæ** Speg. F. Argent. Pug. III, n. 110. — Macu- 2700
lis latiusculis, 2-5 mill. diam., indeterminatis, subarescentibus, griseo-fuscescentibus; peritheciis densiusculis, minutis 80-90 μ . diam., atris, lenticularibus, ostiolo parvulo pertusis, membranaceis, contextu olivascente; sporulis filiformibus, rectis v. flexuosis, granuloso-farctis, utrinque obtusiusculis, 35-45 \approx 1, hyalinis.

Hab. ad folia viva Excæcariæ [Sapii] biglandulosæ v. serratæ en Barracas al Norte in Argentina. (J. CISNEROS).

148. **Septoria Garryæ** Roum. F. Gall. n. 31, Mich. II. pag. 100. — 2701
Maculis arescendo expallentibus, amphigenis; peritheciis punctiformibus, sparsis, pertusis; sporulis bacillaribus, subcontinuis, rectiusculis, 15-18 \approx 1,5-1,7, hyalinis.

Hab. in foliis Garryæ ellipticæ p. Toulouse Galliæ (ROUMÈGUÈRE).

149. **Septoria platanifolia** Cooke Rav. Fung. Amer. n. 27. Hedwigia 2702
1878, p. 38. — Hypophylla; peritheciis numerosissimis, minutis, brunneis, semiimmersis, totam superficiem occupantibus; sporulis immaturis.

Hab. in foliis Platani occidentalis, S. Carolina in America boreali.

150. **Septoria Letendreana** Sacc. Mich. I. p. 528. — Maculis subnul- 2703

lis vagisve; peritheciis gregariis hypophyllis, punctiformibus, globoso-lenticularibus, 60 μ . diam., late pertusis; sporulis bacillaribus, curvis, 18-25 \approx 1½, parce guttulatis, hyalinis.

Hab. in foliis emortuis Juglandis regiæ, Rouen in Gallia (LETENDRE).

151. **Septoria Liquidambaris** C. et Ell. in Grevillea. — Epiphylla; 2704
maculis brunneis, suborbicularibus, minimis; peritheciis atrobrunneis, congestis; sporulis flexuosis, linearibus, 55-60 μ . longis.

Hab. in foliis Liquidambaris in New Jersey Amer. bor.

152. **Septoria albaniensis** Thüm Botanical Gazette Oct. 1880. — Ma- 2705
culis in folii pagina superiore irregularibus, sæpe confluentibus, magnitudine variis, subarescentibus, ochraceis, zona subconcolori vel fusca marginatis, in pagina inferiore e contrario indeterminatis, ochraceo-griseis, obscurius cinctis; peritheciis hypophyllis, sparsis, punctiformi-sublenticularibus, atris, pertusis; sporulis bacillaribus minutis, vel cylindræis, utrinque subrotundatis, curvulis, uniseptatis, hyalinis, 30-32 \approx 2,5.

Hab. in foliis vivis Salicis lucidæ, Albany New York (PECK). — A *Septoria salicicola* Sacc. et *Septoria Populi* Desm. sporularum magnitudine et a prima etiam septatione longe diversa.

153. **Septoria jennisica** Thüm. Pilzfl. Sibir. n. 629. — Peritheciis 2706
hypo- raro etiam epiphyllis, magnis, paucis, gregariis, lenticulari-planis, semiimmersis, atro-fuscis, epidermide primo tectis in macula orbiculari, interdum confluenti, fusco-grisea, obscure et late griseo-marginata, in foliorum pagina superiore maculam fuscam v. fuligineo-fuscam marginatam efficientibus; sporulis numerosis, longe cylindræis, valde curvatis, utrinque acutatis, uniseptatis, achrois, 60-66 \approx 2,5-3.

Hab. in foliis vivis Salicis speciei indeterminate in ins. fluvii Jenissei in Sibiria.

154. **Septoria didyma** Fuck. Symb. myc. p. 390. — Peritheciis in 2707
macula fusca, minutissimis, fuscis, vix prominulis; cirris albis vel dilute rosellis, punctiformibus, amorphis; sporulis oblongis, utrinque obtusis, curvatis, uniseptatis, hyalinis.

Hab. in foliis Salicis triandræ, Æstrich Germaniæ.

155. **Septoria Caprææ** Westd. Bull. ac. roy. Belg. II. serie t. XI. 2708
n. 6. — Maculis epiphyllis, minutis, angulosis, eburneis, albidis, rufo-cinctis; peritheciis punctiformibus, sphericis; sporulis cylindrico-fusififormibus, curvatis, 4-septatis, 4-nucleatis, hyalinis, 20-25 \approx 2,5.

Hab. in foliis vivis Salicis caprææ, Mons in Belgio et S. atrocinerææ, Coimbra Lusitaniæ. — Sec. Thümen, forma lusitanica præbet sporulas 40 \approx 5-6; an ergo diversa species?

156. **Septoria salicina** Peck 25 Rep. p. 87. — Maculis suborbicularibus, brunneis centro aridis; peritheciis minutis brunneis, dein collabescendo pezizoideis; sporulis filiformibus, curvatis, longitudine varia, obscure septatis, 40-60 μ . longis.

Hab. in foliis Salicis lucidæ, Keene in Amer. bor.

157. **Septoria Salicis** West., Kickx. Flor. Fl. I. p. 432. *Depazea salicicola*. Thüm. Mycoth. univ. n. 691 p. p. — Peritheciis minimis in maculis albis exaridis, vix ostiolo punctiformi atro emersis; sporulis filiformibus rectis vel curvis, continuis, nucleolatis 22-25 \approx 1,7.

Hab. in foliis Salicis amygdalinæ, Parma Ital. bor.

158. **Septoria salicicola** (Fr.) Sacc. Mich. I. p. 171. *Depazea salicicola* Fr. S. Myc. II. p. 530. — Maculis rotundatis, lacteis fusco-cinctis; peritheciis minimis sparsis, punctiformibus, convexis, nitidis, nigris; sporulis bacillaribus, curvulis, 40-50 \approx 2 $\frac{1}{2}$ -3, 3-septatis, hyalinis.

Hab. in foliis Salicis cinerææ, S. viminalis etc. in Suecia, Italia, Austria, Sibiria, Gallia. — A *Sept. Salicis* West., *Sept. salicella* B. et Br. et a *Sept. didyma* Fuck. longe diversa. Verisimiliter huc spectat *Sept. Caprææ* West. in Kl. Herb. myc. II. n. 566.

159. **Septoria Populi** Desmz. 10 Not. 5, p. 11. *Sphæria frondicola* Fr. S. M. II. p. 529 p. p.?, *Septoria dealbata* Lév. p. p. — Epiphylla; maculis parvis, orbiculatis sparsis vel confluentibus, albis, exaridis in ambitu griseis, fusco-cinctis; peritheciis paucis, humidis convexis, pallidis, siccis plano-concavis, subnigris, ore orbiculari late apertis; sporulis bacillaribus, utrinque obtusiusculis, curvulis, 45 \approx 3, 1-septatis, hyalinis.

Hab. in foliis Populi nigræ in Belgio, Gallia, Italia, Lusitania, Britannia, Sibiria; et in foliis Pop. suaveolentis, Minussinsk in Rossia.

160. **Septoria ægirina** Pass. F. Parm. Sept. n. 118 et in Myc. univ. n. 595. — Peritheciis amphigenis, sparsis, nigris; sporulis filiformibus, longis, crassiusculis, curvis, intus parce nucleatis, integris, hyalinis, 25-38 \approx 2 $\frac{1}{2}$.

Hab. in foliis elapsis Populi nigræ, Parma in Ital. bor. — A *Depazea frondicola* Fr. et *Depazea tremulicola* De C. differt

sporulis multo longioribus et peritheciis per totius folii superficiem sparsis. — Adest forsàn quoque *Sphærella* immatura.

161. **Septoria Tremulæ** Passer. in Rabh. Fung. eur. n. 1859, Hedwi- 2714
gia 1874, p. 186. — Maculis fuscis, indeterminatis, confluentibus;
peritheciis hypophyllis, minutissimis fuscis, epidermide tectis; spo-
rulis filiformibus tenuibus, flexuosis, continuis, 20-25 \approx 1,5.

Hab. in foliis Populi tremulæ, Collecchio Italiæ bor.

162. **Septoria candida** (Fuck.?) Sacc. Mich. I. p. 171. *Depazea can-* 2715
didã Fuck.? *Sept. Populi* f. *P. albæ* Mycoth. Ven. n. 540. — Ma-
culis epiphyllis candidis; peritheciis punctiformibus, atris, sparsis;
sporulis bacillaribus, 28-30 \approx 2½, curvulis, 3-septatis, hyalinis.

Hab. in foliis subvivi Populi albæ in Italia bor. et Ger-
mania. — *Dep. candida* in Thüm. F. A. n. 1191 sistit *Phyllosti-*
ctam populeam Sacc. et *Ascochytam populinam* Sacc.

163. **Septoria Ostryæ** Peck 33 Rep. St. Mus. 25. — Maculis minu- 2716
tis, suborbicularibus, rubro-brunneis; peritheciis sparsis, centro
macularum insidentibus, nigro-brunneis; sporulis linearibus, valde
curvatis, indistincte septatis, hyalinis, 40-60 μ . longis.

Hab. in foliis et squamis strobilorum Ostryæ virginicæ
in montibus Helderberg Amer. bor.

164. **Septoria Avellanæ** B. et Br. Grevillea V. p. 56 et in Rabenh. 2717
F. E. n. 1958. — Hypophylla; peritheciis circinatis; sporulis fu-
siformibus, curvatis, 10 μ . longis.

Hab. in foliorum subvivorum partibus aridis Coryli Avel-
lanæ, Bathford in Anglia, Gorizia in Italia. bor.

165. **Septoria corylina** Peck 34 Rep. St. Mus. 44. — Maculis sub- 2718
orbicularibus, sparsis, brunneis vel rubro-brunneis, fusco-cinctis;
peritheciis paucis, epiphyllis, minutis, nigro-brunneis, tumidis val-
de apertis; sporulis filiformibus, curvatis, hyalinis, 38-45 μ . longis.

Hab. in foliis vivi Coryli rostratæ, Millerton Amer. bor.

166. **Septoria Fagi** Auersw. in Thüm. F. Austr. n. 1280. Sacc. Mich. 2719
II. p. 101. — Peritheciis ubique sparsis, epiphyllis, vix conspi-
ciendis; sporulis filiformibus, vehementer curvatis, 40 \approx 2, nubilo-
sis, hyalinis.

Hab. in foliis fagineis in Vogesis (MOUGEOT), in Austria
(THÜMEN).

167. **Septoria Gilletiana** Sacc. Mich. I. p. 359. — Maculis nullis; pe- 2720
ritheciis (spuriis) hypophyllis, hinc inde gregariis 100-110 μ . d.,
epidermide tumidula tectis; sporulis e strato prolifero crassiusculo

fasciculatim oriundis, filiformibus curvulis v. tortuosis, 30-45 \times 1 $\frac{3}{4}$ -2, utrinque obtusiusculis, 3-septatis, hyalinis.

Hab. in foliis nondum emortuis Castaneæ vescae pr. Alençon in Gallia (C. C. GILLET). — A *Sept. castanicola* Desm. Sacc. Michelia II. 175 sporulis dimidio et ultra angustioribus etc. recedit.

168. **Septoria ochroleuca** B. et C. North Am. Fungi n. 438 et Peck 25 2721
Rep. p. 88. — Maculis sparsis, suborbicularibus, pallidis, brunneo-marginatis; peritheciis centralibus, minutis, sparsis, hypophyllis, pallidis vel succineis dein collapsis; sporulis fusoideo-filiformibus, curvatis, continuis v. 1-septatis, 25 μ . longis.

Hab. in foliis Castaneæ, Sandlake et New England Americæ borealis.

169. **Septoria Castaneæ** Lév. Ann. Sc. nat. 1846, p. 278. — Peri- 2722
theciis hypophyllis minutissimis innatis intus albis, macula pallida arida insidentibus; sporulis linearibus utrinque obtusis, continuis, hyalinis.

Hab. in foliis Castaneæ vescae, Ville-d'Avray in Gallia et prope Gorizia.

170. **Septoria castanicola** Desm. in Ann. Sc. natur. 1847, VIII. 2723
pag. 26. *Sept. Castaneæ* Lév.? Thüm. Herb. myc. n. 221. — Amphigena; maculis fuscis, indeterminatis; peritheciis hypophyllis, brunneo-nigris, minutis, numerosis, pertusis, 60-70 μ . diam.; sporulis cylindraceis, utrinque obtusiusculis, curvulis, 30-40 \approx 4,5, hyalinis, 3-septatis, in cirros albido-sordidos protrusis.

Hab. in foliis vivis Castaneæ vescae in Italia bor., Britannia, Gallia, Lusitania, Austria infer. — Spermogonium *Sphærellæ*.

171. **Septoria Quercus** Thüm. Contr. Myc. Lusit. n. 613. — Peri- 2724
theciis hypophyllis, sparsis, lenticulari-applanatis, fuscis, semiimmersis, in maculis plus minusve orbiculatis, ochraceis, arescentibus, latissime ferrugineo-marginatis; sporulis acicularibus, utrinque acutatis, arcuatulis vel subrectis, uniseptatis, hyalinis, 15-16 \approx 1,5.

Hab. ad folia viva *Quercus pedunculatae* in montosis Mat-ta d'Alcarraques pr. Coimbra Lusitaniæ (MOLLER).

172. **Septoria quercina** Desm. Not. XIV. p. 25 (1847). — Amphige- 2725
na; maculis minutis, paucis, rotundatis, albidis, exaridis, in ambitu late brunneis; peritheciis 1-3, minutissimis, innato-prominulis, nigris, poro pertusis; sporulis elongatis, filiformibus, curvulis, pluriguttulatis, hyalinis, 40 \approx 1,5-2.

Hab. in foliis languescentibus *Quercuum* in Gallia, Italia,

Gorizia, Austria. — An *Sphæria quercicola* Wallr. huc spectet, non liquet.

173. **Septoria quercicola** Sacc. Mich. I. p. 174. *Septoria incondita* 2726

Rob. var. *quercicola* Desm. in Ann. Sc. natur. 1853, XX. p. 95, — Maculis variis, arescendo candicantibus; sporulis cylindræis, curvulis, utrinque rotundatis, 25-30 \approx 3-4, 3-septatis, non constrictis, hyalinis.

Hab. in foliis *Quercus pedunculatæ* in Gallia et Italia bor. et in foliis *Quercus humilis*, Colimara Lusitaniæ (MOLLER). — Sporulæ *Sept. inconditæ* (= *S. castanicolæ* Desm.), sed maculæ diversæ.

174. **Septoria dryina** Cooke in Grev. XII. pag. 25. — Amphigena; 2727

maculis circularibus albis, minimis, rubro-cinctis; peritheciis paucis, punctiformibus, atris; sporulis linearibus, curvulis, pluri-nucleolatis, hyalinis, 50-60 \approx 1,5.

Hab. in foliis *Quercus falcata* in Carolina austr. Americæ borealis.

175. **Septoria Querceti** Thüm. Bot. Gaz. oct. 1880. — Peritheciis 2728

hypophyllis, numerosissimis, densissime gregariis, minutis, nitido-atris, immersis, epidermide pustulæformi tectis, postremo vix liberis, punctiformibus, maculas plus minusve suborbiculatas, translucentes efficientibus; sporulis numerosis, subrectis v. arcuatulis, cylindræis, utrinque obtusatis, bi-quadriseptatis, multinucleatis, hyalinis, 18-22 \approx 2,5-3.

Hab. in foliis subviviis vel aridis *Quercus tinctoriæ*, Aiken Carolinæ australis (RAVENEL).

176. **Septoria ocellata** (Lév.?) Sacc. Mich. II. p. 380. *Sphæropsis* 2729

ocellata Lév.? Ann. Scienc. nat. 1846, V. p. 297. — Peritheciis gregariis, globoso-lenticularibus, 150 μ . diam., pertusis, laxe celluloso-contextis, fuligineis; sporulis fasciculatis, tereti-fusoideis, curvulis, 20-25 \approx 3, utrinque obtusiusculis, continuis, hyalinis sed coacervatis dilutissime olivaceis.

Hab. in foliis emortuis *Quercus pedunculatæ* in M. Generoso, (PENZIG) et in Gallia? (LÉVEILLÉ).

177. **Septoria Betulæ** (Lib.) West. Sacc. Mich. I. p. 177. *Ascochy-* 2730

ta Betulæ Lib. — Maculis amphigenis, subcircularibus, minutis, pallide ochraceis; peritheciis lenticulari-punctiformibus; sporulis bacillaribus curvulis, 30-34 \approx 1½, utrinque obtusiusculis, hyalinis.

Hab. in foliis *Betulæ albæ*, Conegliano in Italia boreali (SPERGAZZINI).

178. **Septoria betulina** Passer. Hb. *S. Betulæ* Passer. Prim. Elen. 2731
 Funghi Parm. n. 52. Thüm. Fung. œconom. n. 242. — Maculis irregularibus, minutis griseis, mox confluentibus et exaridis; peritheciis hypophyllis, sparsis; sporulis filiformibus, curvis, 30-60 μ . long. spurie septatis.
Hab. in foliis Betulæ albæ, Collecchio Parmæ in Italia bor.
179. **Septoria betulicola** Peck 34 Rep. St. Mus. p. 44. — Maculis 2732
 minutis, confluentibus, angulosis, in pag. sup. rubro-brunneis, in pag. inf. pallidis; peritheciis hypophyllis, minutis, nigris; sporulis filiformibus, curvatis, hyalinis, 30-45 μ . longis.
Hab. in foliis vivis Betulæ luteæ, Catskill mont. Americæ borealis.
180. **Septoria microsperma** Peck 34 Rep. St. Mus. 44. — Maculis in- 2733
 definitis, brunneis, sæpe confluentibus; peritheciis hypophyllis, numerosis, minutis, irregularibus, brunneis, siccis rugosis, irregulariter fissis; sporulis allantoides, hyalinis, 9-14 μ . longis.
Hab. in foliis languidis Betulæ lentæ, Knowersille Am. bor.
181. **Septoria Alni** Sacc. Mich. I. p. 177. — Maculis subcircularibus, 2734
 arescendo ochraceis, epiphyllis; peritheciis sparsis, punctiformibus; sporulis bacillaribus subclavatisve, 30-35 \approx 1 $\frac{1}{2}$ -2 $\frac{1}{2}$, remote guttulatis, hyalinis.
Hab. in foliis languidis Alni glutinosæ, Conegliano in Italia boreali (SPEGAZZINI).
182. **Septoria alnicola** Cooke Handb. pag. 451. — Maculis pallidis, 2735
 brunneis vel fuscis, rotundatis, 5-7 mill. diam.; peritheciis minutis, sparsis, semiinnatis, nigris, pertusis; sporulis oblongis, rectis vel curvatis.
Hab. in foliis vivis Alni glutinosæ in Britannia et Ital. bor.
183. **Septoria alnigena** Sacc. Mich. I. p. 178. — Maculis nullis; pe- 2736
 ritheciis punctiformibus hinc inde densiuscule congregatis, lenticularibus, atris; sporulis breve filiformibus, curvulis, utrinque acutiusculis, 20 \approx 3/4, continuis hyalinis.
Hab. in pag. sup. foliorum vigentium Alni glutinosæ, Vittorio Ital. bor. — A *Sept. alnicola* Cooke Hndb. p. 451 sporulis filiformibus nec oblongis distinguenda — *Sept. alnicola* in Thüm. M. U. n. 693 aptius ad *Sept. Alni* Sacc. pertinere videtur.
184. **Septoria Pini** Fuck. Symb. p. 259. — Peritheciis immersis, in 2737
 acervulos lineari-oblongos seriatis, per epidermidem demum erumpentibus; cirris candidis; sporulis oblongo-clavatis, 1-septatis, hyalinis.

Hab. in foliis vivis *Abietis excelsæ* in Rhenogovia. — Spermogonium *Hypodermatis nervisequii*. Sec. J. Kühn huc spectat *Blennoria Abietis* Wallr., quam vero alii ad *Chrysomyxam Abietis* aptius forte referunt.

185. **Septoria acicola** (Thüm.) Sacc. *Cryptosporium acicolum* Thüm. 2738

Fung. Americ. trig. sp. n. 5, in Flora 1878, pag. 178. — Peritheciis parvulis, gregariis, plus minusve lineari-dispositis, tectis punctiformibus, subglobosis, atris; sporulis cylindricis, curvato-lunulatis, utrinque subangustatis et rotundatis, simplicibus, numerosissimis, pallide fusco-griseis, $27 \approx 3,5-4$.

Hab. in foliis aridis Pini variabilis, Aiken in Carolina australi.

186. **Septoria Podocarpi** Thüm. F. Austro-Afr. n. 125. — Peritheciis 2739

solitariis, prominulis, semiimmersis, globulosis, submagnis, nigris, in maculis irregularibus, cinereo-exaridis, angustissime fusco-marginatis; sporulis numerosis, cylindræis vel ellipsoideo-cylindricis, utrinque rotundatis et leniter angustatis, rectis, uniseptatis, vel simplicibus, achrois, $5-7 \approx 1,5-2,5$.

Hab. in foliis vivis Podocarpi Thunbergii, Grahamstown Promont. bonæ spei (MAC-OWAN).

187. **Septoria boninensis** Berk et C. North Pac. expl. n. 126. — 2740

Peritheciis minutis epidermide nigrificata polita ocellata tectis; sporulis rectis, mediis, filiformibus, curvulis.

Hab. in petiolis folii cujusdam ignoti in insula Bonin.

188. **Septoria variegata** Vize Grevillea II. p. 14. — Epiphylla; ma- 2741

culis brunneis, griseis vel pallidis; peritheciis minutis, immersis, cæspitosis; sporulis minutis, linearibus, hyalinis, 50μ . longis.

Hab. in foliis coriaceis in India orient.

189. **Septoria albo-nigra** B. et C. North Americ. Fungi n. 434^{bis}. 2742

— Maculis albis, fusco-annulatis; peritheciis minimis; sporulis filiformibus, 55μ . longis.

Hab. in foliis vivis, Alabama Amer. bor.

190. **Septoria recta** B. et C. North Americ. Fungi n. 448. — Pe- 2743

ritheciis nitidis totam superficiem occupantibus; sporulis rectis linearibus, utrinque acutiusculis, 25μ . longis.

Hab. in foliis coriaceis emortuis in Carolina inf. Amer. bor.

191. **Septoria macularis** Lév. Ann. Sc. nat. 1846, p. 278. — Peri- 2744

theciis adnatis, gregariis, epiphyllis, punctiformibus, nigris, macula nigra insidentibus; ostiolis inconspicuis; sporulis elongatis filiformibus, utrinque obtusis, continuis, hyalinis.

Hab. ad folia in Chili.

192. **Septoria olivacea** B. et C. Cub. Fungi n. 568. — Sporulis elongatis curvatis, utrinque obtusis, bi-triseptatis. 2745

Hab. in pag. inf. foliorum in insula Cuba.

§§ *In plantis herbaceis.*

193. **Septoria compta** Sacc. Mich. I. p. 93, F. ital. t. 89. — Maculis arescendo ochraceis, angulosis; peritheciis immersis, globulosis, 130 μ . diam., ferrugineis, ostiolo obtuso latiuscule hiantibus; sporulis cylindræis curvulis, 20-25 \approx 5, utrinque obtusiusculis, 3-5-septatis, ad septa constrictis, hyalinis, denique in cirrum albidum protusis. 2746

Hab. in foliis languidis Trifolii alpestris, Selva in Italia bor., et in foliis Trifolii incarnati, Coimbra Lusitaniæ.

194. **Septoria Medicaginis** Rob. et Desm. 14 Not. bot. p. 24. — Maculis amphigenis, subrotundatis vel irregularibus, albidis in ambitu fuscis; peritheciis innatis, hypophyllis, pallidis, depressis, ore orbiculari apertis; cirris ochroleucis; sporulis cylindricis utrinque obtusis, subhyalinis, 7-9-guttatis, 20 \approx 3. 2747

Hab. in foliis languescentibus Medicaginis sativæ in Ital. bor. et Gallia.

195. **Septoria Astragali** Desm. Ann. Sc. nat. 1843, XIX. p. 345. — Epiphylla; maculis irregularibus, griseo-viridibus, dein fuscis; peritheciis paucis, globosis, prominulis, nigris, poro dilatato apertis; sporulis filiformibus, tortuosis, prælongis, 120 \approx 3, 9-10-septatis, hyalinis. 2748

Hab. in foliis Astragali Glycyphylli in Italia, Gallia, Britannia, Belgio, Germania. — Adest forma (an parum evoluta?) sporulis minus longis obsoleteque septatis.

196. **Septoria Baptisiæ** Cooke in Rav. F. Amer. n. 30, Hedwigia 1878, p. 38. — Epiphylla; maculis suborbicularibus, purpurascentibus; peritheciis parce inspersis, immersis; sporulis linearibus rectis vel curvulis, nucleatis, 40-50 μ . longis. 2749

Hab. in foliis Baptisiæ in Carolina austr. (RAVENEL).

197. **Septoria Hosackiæ** Harkn. F. Calif. p. 11. — Peritheciis minutis, amphigenis; sporulis filiformibus, flexuosis, hyalinis, 3-7-septatis, 64 \approx 4; maculis irregularibus, fusco-flaventibus. 2750

Hab. in foliis vivis Hosackiæ strigosæ, Antioch Californiæ.

198. **Septoria Lupini** Harkn. Calif. F. p. 11. — Epiphylla; maculis indeterminatis, flaventibus, subinde tota foliola occupantibus; pe- 2751

peritheciis minute papillatis; sporulis linearibus, utrinque acutis, obscure septulatis, 40-60 \approx 4-5.

Hab. in foliis vivis Lupini densiflori, Tamalpais Californiæ.

199. **Septoria sojina** Thüm. Symb. Myc. Austr. III. n. 63. — Peri- 2752
theeciis epiphyllis sparsis, parvis, conico-globulosis, emersis, atris in macula determinata, irregulari, arescendo flavente, anguste fusco-purpurascente-marginata; sporulis cylindræis vel subcuneatis, rectis 1-septatis, deorsum subacutis, apice obtuse rotundatis, grosse 2-4-nucleatis, hyalinis 12-18(sæpius 14) \approx 4,5-5.

Hab. ad folia viva vel languida Sojæ hispidæ, S. Michele Tirolæ et Rubbia prope Gorizia.

200. **Septoria Melanophthalmi** B. et C. North Amer. Fungi n. 450. 2753
— Maculis pallidis, margine late rufo circumdatis; sporulis allantoidæis vel flexuosis brevibus, 2-3-nucleatis.

Hab. in foliis Dolichi melanophthalmi, in Carolina superiore Americæ bor.

201. **Septoria Dolichi** B. et C. North Amer. Fungi n. 449^{bis}. — Ma- 2754
culis albis, margine lato flavo cinctis; sporulis rectis subfusiformibus triseptatis, 40 μ , longis.

Hab. in foliis Dolichi in Carolina inferiore Americæ bor.

202. **Septoria Pisi** West. Bul. ac. roy. belg. Ser. II. t. XII. n. 7. — 2755
Maculis amphigenis, irregularibus, latis, elongatis, venulis foliorum limitatis, albidis vel brunneo-pallidis; peritheciis luteo-brunneis, dein nigris, sparsis; cirris luteo-aurantiacis; sporulis cylindricis, rectis, 40 \approx 3-3,3.

Hab. in foliis Pisi sativi, Namur Belgii.

203. **Septoria Viciæ** West. Exs. n. 1151, Pass. F. Parm. Sept. n. 34. 2756
— Maculis expallentibus, fusco-marginatis; peritheciis punctiformi-lenticularibus; sporulis tenuibus, rectiusculis, integris, multinucleolatis, hyalinis, longitudine variis, 30-60 \approx 2,5.

Hab. in foliis Viciæ sativæ, Parma Italiæ bor.

204. **Septoria orobina** Sacc. Mich. I. p. 187. — Maculis irregulari- 2757
bus arescendo subochraceis, atrocinctis; peritheciis remotis, punctiformibus, lenticularibus poro pertusis; sporulis filiformibus, flexuosis, 30 \approx $\frac{3}{4}$, eguttulatis, hyalinis.

Hab. in foliis Orobi verni in silva Montello Italiæ bor.

205. **Septoria orobicola** Sacc. Mich. I. p. 187. — Maculis et peri- 2758
theeciis *Septoriæ orobinæ* similibus; sporulis bacillaribus, 60-70 \approx 2-3, rectiusculis, utrinque obtusis, obsolete septulatis, hyalinis.

- Hab.* in foliis *Orobi verni*, Conegliano Ital. bor., Neuchâtel Helvetiæ, et *Orobi variegati* prope Parma.
206. **Septoria fulvescens** Sacc. Mich. I. p. 191. — Maculis amphigenis versiformibus, confluentibus, fulvo-melleis, margine sinuoso concolori; peritheciis amphigenis, globuloso-prominulis, punctiformibus, ochraceis; sporulis bacillaribus, 50-60 \approx 3, dense fasciculatis, utrinque obtusiusculis, leniter curvatis, 3-5-septulatis, hyalinis.
- Hab.* in foliis *Lathyri silvestris* in silva Montello, Treviso Ital. bor. — Species prædistincta et, ut videtur, rarissima sed ob perithecia fulvo-mellea a typo desciscens et ad Nectrioides vergens.
207. **Septoria silvestris** Pass. F. Parm. Sept. n. 37. — Maculis nullis vel pallidis, tandem evanidis, nervis venisque limitatis; peritheciis pallidis, tectis, cirros albidos ejicientibus, sparsis, demum atris; sporulis bacillaribus, rectis, integris, hyalinis, 30-50 \approx 3.
- Hab.* in foliis *Lathyri silvestris*, Vigheffio Italiæ bor.
208. **Septoria emaculata** Peck et C. Rep. on the St. Mus. N. York. — Peritheciis latis, sparsis, prominulis, nigris; sporulis filiformibus, curvatis vel flexuosis, nucleolatis, 50-87 μ . longis.
- Hab.* in foliis vivis et leguminibus *Lathyri palustris*, Buffalo Amer. bor.
209. **Septoria stipularis** Pass. F. Parm. Sept. n. 36. — Peritheciis amphigenis in maculis fuscis primo marginantibus, mox stipulam totam invadentibus, aggregatis, punctiformibus, castaneo-fuscis, membranaceis; sporulis bacillaribus, subrectis, integris, achrois, apicibus rotundatis, endoplasmate opaco, granuloso, 25-38 \approx 2,5-3.
- Hab.* in stipulis *Lathyri Aphacæ*, Parma Italiæ bor.
210. **Septoria Gei** Rob. et Desm. in Ann. Sc. nat. 1843, XIX. p. 343. — Maculis orbicularibus vel irregularibus brunneo-ochraceis, dein centro cinereis aridisque fusco-limbatis; peritheciis epiphyllis numerosis, brunneo-nigris, hemisphæricis, dein collapsis; sporulis filiformibus, utrinque acutis, 30 \approx 1,5, continuis, hyalinis, nubiosis.
- Hab.* in foliis vivis languidisve *Gei urbani* in Italia, Britannia, Gallia, Belgio; et in foliis vivis *Gei biflori* in Lusitania.
211. **Septoria potentillica** Thüm. Pilzfl. Sibir. n. 627. — Peritheciis epiphyllis, dense gregariis sed non numerosis, punctiformi-conoidis, minutis, atris in macula parva, orbiculari, ochracea, late purpureo-marginata, subtus dilute ochroleuca; sporulis numerosis, subrectis v. leniter arcuatis, utrinque subobtusis, continuis, achrois, 32-40 \approx 2,5-3.

Hab. in foliis vivis *Potentillæ fragarioidis* in silvis prope lacum Kysykul in Sibiria asiatica.

212. **Septoria sparsa** Fuck. Symb. Mycol. p. 390. — Peritheciis globosis, majusculis, 1-4 in maculis fuscis, erumpentibus, atris, ostiolo papilliformi, demum depressis; sporulis simplicibus, anguste filiformibus, rectis, multiguttulatis, utrinque acuminatis, hyalinis, $50 \approx 1,5$.

Hab. in foliis *Potentillæ reptantis* in Germania et Italia.

213. **Septoria Tormentillæ** Desm. et Rob. XIV. Not. p. 22. — Maculis irregularibus, sæpius oblongis, albidis, roseo-cinctis, dein haud marginatis; peritheciis plurimis; sporulis filiformibus, curvis vel flexuosis, continuis hyalinis, 45-55 μ . longis.

Hab. in foliis *Tormentillæ erectæ* et *Potentillæ reptantis* in Gallia, Italia et Belgio.

214. **Septoria Fragariæ** Desm. Observ. Bot. et Zool. I. n. 7, p. 11, 2767
Ascochyta Fragariæ Lib. — Epiphylla; maculis suborbiculatis, fuscis, in ambitu brunneo-rubris; peritheciis minutissimis, innato-prominulis, fusco-fuligineis, ore orbiculari late apertis; cirris albidis; sporulis cylindræis, utrinque obtusis, 3-septatis, hyalinis.

Hab. in foliis languescentibus *Fragariæ vescæ*, Fr. chilensis, *Potentillæ fragarioidis*, *P. opacæ* in Italia, Belgio, Gallia, Rossia, Sibiria asiatica.

215. **Septoria aciculosa** Ell. et Everhart in litt. ad me. — Peritheciis innatis subsuperficialibus congregatis, minutis, in utraque pagina folii; sporulis acicularibus continuis, 15-20 $\approx 3/4$.

Hab. in foliis *Fragariæ cultæ*, Illinois in Amer. bor. (F. S. EARLE).

216. **Septoria Waldsteinia** P. et C. Rep. on the St. Mus. N. York. 2769
— Maculis minutis, inæqualibus, suborbicularibus, aridis, purpureo-brunneo- vel nigro-marginatis; peritheciis minutis, paucis, epiphyllis, nigris; sporulis rectis 25 μ . longis.

Hab. in foliis *Waldsteinia fragarioidis*, Portage, Helderberg Moutains Amer. bor.

217. **Septoria Arunci** Pass. F. Parm. Sept. n. 48. — Peritheciis solitariis vel paucis, nigris, nitidis, in maculis exaridis, albidis, atrosanguineo-areolatis; sporulis cylindricis rectis vel arcuatis, integris, obscure nucleolatis, 20-25 $\approx 2 1/2$.

Hab. in foliis *Spirææ Arunci*, Cisa in Apennino parmensi.

218. **Septoria Ulmaria** Oud. Fl. myc. Nederland, pag. 3. — Maculis plurimis sparsis nigris, centro pallidioribus, subrotundis, in utraque folii pagina manifestis; peritheciis minutissimis, in macularum sub-

stantia immersis, nudo oculo vix visibilibus, ex unico cellularum strato formatis, tandem poro minuto apertis; sporulis cylindræis, utrinque obtusis, flexuosis, hyalinis, continuis, $50 \approx 2,5$.

Hab. in foliis Spirææ Ulmariae, Halfweg Hollandiæ.

219. **Septoria quevillensis** Sacc. Mich. I. p. 527. (*S. Ulmaricæ*). — 2772

Maculis epiphyllis minutis, atro-sanguineis, dein centro expallentibus; peritheciis lenticularibus, 60–80 μ . d., late apertis, denique folia punctato-perforantibus, contextu cellulari, melleo; sporulis bacillaribus curvulis, pluriguttulatis, 30–40 $\approx 1-1\frac{1}{2}$, hyalinis.

Hab. in pag. sup. foliorum Spirææ Ulmariae prope Rouen Galliæ (LETENDRE).

220. **Septoria Brissaceana** Sacc. et Let. Sacc. Mich. II. p. 625 (1882). 2773

— Maculis minutis subochraceis, atro-marginatis; peritheciis epiphyllis, punctiformibus, nigricantibus, minute pertusis; sporulis filiformibus, utrinque attenuatis, flexuosis vel curvulis, continuis, guttulatis, 28–36 $\approx 1-1,5$, hyalinis.

Hab. in foliis languidis Lythri Salicariæ prope Rouen Galliæ (LETENDRE).

221. **Septoria lythrina** Peck 33 Rep. St. Mus. 25 (1880). — Maculis 2774

suborbicularibus vel irregularibus, griseo-brunneis, sæpe nigro-cinctis; peritheciis minutis, epiphyllis, rariter amphigenis, nigris; sporulis filiformibus, curvulis, 20–40 μ . longis.

Hab. in foliis vivis Lythri Salicariæ, Newburg Amer. bor. — Forte non satis diversa a *S. Brissaceana*.

222. **Septoria Ludwigiae** Cooke in Grev. et n. 33 Rep. on the St. Mus. 2775

N. Y. — Epiphylla; maculis exaridis, rubro-cinctis; peritheciis paucis, punctiformibus, 5–8, gregariis; sporulis linearibus, obtusis, multinucleatis flexuosis, hyalinis, 40 μ . longis.

Hab. in foliis Ludwigiae, Aiken, Sud Carolina, et Ludwigiae palustris, Charlton Amer. bor.

223. **Septoria Platensis** Speg. Pug. Arg. I. p. 189. — Maculis mi- 2776

nutis, orbicularibus, determinatis, candidis, 1–1,5 mill. diam., areola purpurascenti cinctis; peritheciis solitariis, rarius 2–5 gregariis, centro macularum insidentibus, lenticulari-hemisphæricis, atris, minutis, 90–100 μ . diam., contextu membranaceo, fuligineo-olivaceo, ostiolo latiusculo donatis; sporulis cylindræis, rectis vel flexuosis, apicem versus subattenuatis, hyalinis, 12–18 $\approx 1-1,5$, 1-(an posterius 3?)-septatis.

Hab. in foliis vivis vel languidis Jussiae longifoliae in paludosis secus Rio de la Plata a la Recoleta Argentinae.

224. **Septoria obsidionis** Speg. F. Argent. Pug. II. n. 111. — Ma- 2777
culis epiphyllis 1-3 mill. diam., orbicularibus, albis, arescentibus,
quandoque confluentibus, areola lata purpurascente cinctis; peri-
theciis paucis, minutis, lenticularibus, ostiolo minuto pertusis, 70-
90 μ . d., membranaceis, contextu fulvo-olivaceo; sporulis filifor-
mibus 20-30 \approx 1, inferne obtuse angulato-curvatis, hyalinis.

Hab. ad folia viva Jussiaë longifoliaë in paludosis prope
la Recoleta. — Cum *Septoria platensi* Speg. non comparanda,
etsi habitu simillima.

225. **Septoria Fuchsiaë** Roum. F. Gall. n. 228. — Peritheciis epi- 2778
phyllis, punctiformibus, parvis, atris in maculis irregulari-subro-
tundis pallidis, brunneo-marginatis insertis; sporulis linearibus,
flexuosis, septulatis, hyalinis.

Hab. in foliis Fuchsiaë coccineaë, Montauban Galliaë.

226. **Septoria maculosa** Lév. in Roum. F. Gall. n. 416. — Maculis 2779
expallentibus nigro-marginatis; peritheciis subgregariis, punctifor-
mibus, atris; sporulis bacillaribus curvulis, 15-20 \approx 1 $\frac{1}{2}$, nubilosis.

Hab. in foliis languidis Cynanchi erecti, Angers Galliaë
(GUEPIN). — *Septoria maculosa* Gérard, in Peck Reports citata,
et in foliis Cuphææ viscosissimaë in Poughkeepsie Amer. bor.
lecta, verisimiliter diversa est, at mihi ignota.

227. **Septoria Chamænerii** Pass. F. Parm. Sept. n. 54. — Maculis 2780
oblongis rubro-cinctis; peritheciis punctiformibus, nigris, utrinque
perspicuis; sporulis bacillaribus rectis, apicibus rotundatis, septu-
latis, 20-25 \approx 2.5-3.

Hab. in foliis Epilobii parviflori, Collecchio in Italia bor.

228. **Septoria Epilobii** West. in Bull. Acad. Bruxelles 1852, XIX, 3, 2781
p. 120. — Maculis olivaceis, irregularibus vel angulosis, foliorum
venulis limitatis vel confluentibus; peritheciis amphigenis, minutis,
brunneis, pertusis; cirris albis exilibus; sporulis filiformibus, re-
ctis vel curvatis, parce obsoleteque septatis, hyalinis, 50 \approx 1.5.

Hab. in foliis vivis Epilobii montani, E. hirsuti, E.
parviflori, E. flaccidi, E. angustifolii, E. palustris
in tota Europa et in Sibiria asiatica.

229. **Septoria Enotheræ** West. Bul. ac. roy. belg. Ser. II. t. XII. 2782
n. 7. *Depazea Enotheræ* Lasch. — Maculis epiphyllis, rotundatis,
minutis, initio subviridibus dein brunneis, rubro-vinosis cinctis;
peritheciis nigris, punctiformibus, in centro macularum aggrega-
tis; sporulis filiformibus curvulis, hyalinis, minute pluri-guttula-
tis, 35-40 \approx 1.5-1.7.

Hab. in foliis *Cenotheræ biennis*, *C. sinuata* in Belgio, Italia et Amer. boreali.

230. **Septoria Nolitangere** Thüm. F. Kirgh. in N. Giorn. Bot. Ital., 2783 n. XII. — Peritheciis minutissimis, oculo nudo vix visibilibus, globoso-conicis, subimmersis, atris, sparsis, epirario hypophyllis in maculis irregularibus, arescendo ochraceo-albidis, mox laceratis, late violaceo-cinctis; sporulis bacillaribus, rectis, simplicibus (an semper?), utrinque obtusis, enucleatis, achrois, 8-12 \approx 1,5.

Hab. in foliis vivis *Impatientis Nolitangere*, Sarmatijewa (Orenburg) Rossia. — Fortasse huc spectat *Depazea Impatientis* Kirchn. in Lotos, mihi ignota.

231. **Septoria Balsaminæ** Pass. F. Parm. Sept. n. 25. — Maculis orbicularibus exaridis margine incrassatis; peritheciis solitariis vel paucis punctiformibus, atris; sporulis bacillaribus strictis vel vix curvis, apicibus obtusis, triseptatis, loculis nucleolatis, 30-35 \approx 2 $\frac{1}{2}$ -3, hyalinis.

Hab. in foliis languidis *Balsaminæ hortensis*, Parma Italiae borealis.

232. **Septoria Geranii** Rob. et Desm. Ann. Sc. nat. Bot. 1853, XX. 2785 p. 93. — Epirarius hypophylla; maculis irregularibus, olivaceo-brunneis, late purpureo-cinctis; peritheciis innatis, minutissimis, pallidis, poro simplici pertusis; cirris aureis; sporulis filiformibus, 35-50 \approx 1, indistincte septulatis, hyalinis.

Hab. in foliis *Geranii Robertiani*, *G. mollis*, *G. pusilli* etc. in Gallia, Italia.

233. **Septoria expansa** Niessl, Hedwigia 1883, p. 15. — Hypophylla; 2786 maculis indeterminatis, valde expansis gilvis vel subochraceis; peritheciis disseminatis, majusculis, semiimmersis, vertice dehiscens; cirris rubescentibus; sporulis filiformibus curvulis, 50-60 \approx 1, hyalinis pluriguttulatis et indistincte septatis.

Hab. in foliis *Geranii dissecti*, quæ subinde omnino occupat, Brünn in Moravia (NISSL).

234. **Septoria Dictamni** Fuck. En. Fung. Nass. n. 330. — Peritheciis 2787 in macula discolori punctiformibus atris; cirris sordidis; sporulis bacillaribus, utrinque obtusiusculis, 90 \approx 3 $\frac{1}{2}$ -4, leniter curvulis, 4-septatis, hyalinis.

Hab. in foliis languidis *Dictamni albi* in Germania, Italia bor. et agro tergestino. — *Depazea Dictamni* Rabenh. in Bot. Zeit. 1851, p. 455 forte non differt; ibi enim parum accurate descripta videtur.

235. **Septoria bractearum** Mont. Ann. Sc. nat. 1849, p. 49, *Rhab-* 2788
dospora bractearum Mont. Syll. crypt. p. 277. — Amphigena;
 peritheciis innatis, perexiguis, globosis, fuscis, tectis poroque per-
 tuisis, in maculas rufidulas sparsis aut congregatis; sporulis linea-
 ribus, rectis aut incurvis, 50×2 , pluri-guttulatis, hyalinis.
Hab. in bracteis Euphorbiæ serratæ, Montaud-les-Mira-
 mas Galliæ (CASTAGNE).
236. **Septoria Kalchbrenneri** Sacc. *Septoria Euphorbiæ* Kalchbr. in 2789
 Hedwigia 1865, p. 158, nec Guep. — Peritheciis punctiformibus,
 atris, in maculis expallentibus, sæpius atro-marginatis; sporulis
 tenuissimis, flexuosis, granulosis.
Hab. in foliis subviviis Euphorbiæ silvaticæ in montibus
 Carpathiis, E. palustris et E. asperæ in horto berolinensi.
237. **Septoria Euphorbiæ** Guep. in Roum. F. Gall. n. 521, Sacc. Mich. 2790
 II. p. 346. — Maculis amphigenis, subcircularibus minutis, sordide
 olivaceis; peritheciis numerosis, punctiformibus, late hiantibus; spo-
 rulis acicularibus sursum attenuatis $40-45 \times 2-2\frac{1}{2}$, obsolete 3-4-
 septatis, hyalinis.
Hab. in foliis languidis Euphorbiæ Esulæ et angulatæ
 in Vogesis Galliæ (MOUGEOT).
238. **Septoria Hyperici** Desm. Ann. Sc. nat. 1842, p. 110, Kickx Fl. 2791
 Flandr. I. p. 429. — Epiphylla; maculis orbicularibus, oblongis vel
 indeterminatis, rufo-brunneis, luteo-marginatis; peritheciis minutis,
 brunneis, prominulis; cirris luteo-stramineis; sporulis linearibus,
 rectis, $30-50 \mu$. long., minute 8-16-nucleolatis.
Hab. in foliis Hyperici hirsuti, H. perforati in Italia,
 Belgio, Britannia. — β . **Elodis** West. exs. fasc. 24, n. 1153: pe-
 ritheciis obscurioribus, sæpe hypophyllis, poro minuto dehiscenti-
 bus; maculis brunneo-nigris, cirris rubro-pallidis. In foliis Hy-
 perici elodis in Belgio.
239. **Septoria Lachastreana** Sacc. et Let., Sacc. Mich. II. p. 625. — Ma- 2792
 culis minutis dealbatis, fusco-marginatis; peritheciis epiphyllis per-
 exiguis, globulosis, parvis, pertuisis, 70μ . diam.; sporulis bacilla-
 ribus tenuiter 3-septatis, $36-50 \times 1,5$, rectis vel curvulis, hyalinis.
Hab. in foliis languidis Althææ officinalis prope Rouen
 Galliæ (LETENDRE).
240. **Septoria? Althææ** Thüm. F. Austr. n. 995. — Peritheciis mi- 2793
 nutis, semiimmersis, atris, subglobosis, in circulum dispositis, in ma-
 culis exaridis, pallide-brunneis.

Hab. in foliis vivis vel languidis *Althææ roseæ*, Tetschen Bohemiæ septentr. — Dubia, nam sporulæ indscriptæ.

241. **Septoria gossypina** Cooke in Grev. XII. p. 25. — Maculis epi- 2794
phyllis, albidis, irregularibus, purpureo-cinctis; peritheciis puncti-
formibus, centralibus, atris, semiinnatis; sporulis linearibus, hya-
linis, 50 \approx 1.

Hab. in foliis *Gossypii* in Carolina austr. Amer. bor.

242. **Septoria Carthusianorum** West. Bull. ac. roy. belg. Ser. II. t. 2795
XII. n. 7. — Maculis roseis vel luteo-croceis, irregularibus, latis
et confluentibus; peritheciis fusco-brunneis, numerosis, immersis,
dein prominentibus liberis; cirris roseo-carneis; sporulis cylindri-
cis, rectis vel flexuosis, utrinque obtusis, 5-7-nucleatis, hyalinis,
20-30 \approx 2.

Hab. in calycibus *Dianthi Carthusianorum*, Courtrai in Belgio (WESTENDORF).

243. **Septoria Dianthi** Desm. 17 Not. 6, p. 20. — Maculis luteolis, 2796
oblongis, rotundis vel irregularibus; peritheciis globoso-depressis,
nigro-fuscis, poro apertis; cirris albidis; sporulis elongatis, cylin-
dricis, curvulis, utrinque obtusis, 30-45 \approx 4, obsolete 4-nucleatis.

Hab. in foliis *Dianthi barbati*, D. *Armeriæ*, D. *Saxifragi* in Italia, Gallia, Lusitania, Sibiria.

244. **Septoria Saponariæ** (DC.) Savi et Becc. Erb. cr. ital. n. 882, 2797
Fungi Ven. Ser. V. n. 205, *Septoria Dianthi* β . *Saponariæ* Desm.,
Depazea Saponariæ DC. Fl. Fr. VI. p. 147. — Maculis rotundis
vel irregularibus; peritheciis globoso-depressis, fuscis; sporulis cy-
lindræis, curvulis, 40-50 \approx 3 $\frac{1}{2}$ -4 $\frac{1}{2}$, utrinque obtusis, 4-5-nuclea-
tis, hyalinis.

Hab. in foliis *Saponariæ officinalis* et *Silenes inflatæ* in Italia, Gallia et Germania.

245. **Septoria silenicola** Ell. et Mart. Amer. Nat. 1882, p. 1001 (*Sept.* 2798
Silenes). — Maculis minutis, subluteis; peritheciis luteo-brunneis;
delicatis, innatis, sparsis, 56 μ . diam.; sporulis luteo-hyalinis, cy-
lindræis, curvatis, 3-septatis, 48 \approx 3.

Hab. in foliis vivis *Silenes stellatæ*, Chester Co. Pen-
sylvaniæ.

246. **Septoria Silenes** West. Bull. ac. roy. b. Ser. II. tab. XII. n. 7 et 2799
Exsicc. n. 955. — Maculis rotundatis, confluentibus, pallide brun-
neis, latis; peritheciis minutissimis, nigris, semiimmersis; sporulis
cylindricis, 17-20 \approx 2,5.

- Hab.* in pag. super. foliorum *Silenes Armeriæ*, Beverloo Belgii (WESTENDORF).
247. **Septoria dimera** Sacc. Mich. II. p. 102. — Maculis vagis, majusculis, sordide ochraceis; peritheciis crebris, minutissimis, vix $\frac{1}{12}$ mill. diam., lenticularibus, nigricantibus, sæpius epiphyllis; sporulis cylindraceis crassiusculis, 28-32 \approx 4, utrinque obtusis, leniter curvis, 1-septatis, hyalinis. 2800
- Hab.* in foliis languidis *Silenes nutantis*, Saintes Galliæ (BRUNAUD). — A *S. Saponariæ* (DC.) satis superque distincta.
248. **Septoria dianthicola** Sacc. Mich. I. p. 191. — Maculis nullis; peritheciis hinc inde dense congregatis, punctiformibus, atris; sporulis bacillaribus, curvulis, 15-20 \approx 1, continuis eguttulatis, hyalinis. 2801
- Hab.* in foliis *Dianthi barbati* in silva Montello, Treviso Ital. bor.; in foliis *Dianthi Caryophylli*, Coimbra Lusitaniæ (MOLLER). — Cum *Sept. Dianthi* Desm. nil commune habet.
249. **Septoria Sinarum** Speg. Nov. Add. p. 165, Sacc. Mich. II. p. 279. — Maculis albidis, circularibus, majusculis, sæpe totum folium occupantibus; peritheciis amphigenis, gregariis, totam maculam tegentibus, globoso-lenticularibus, minutis, 80-110 μ . diam., poro parvulo pertusis, contextu parenchymatico-membranaceo, fuligineo-olivaceo; sporulis acicularibus, rectis vel curvulis, utrinque acutiuscule rotundatis, 1-2-septatis, ad septa plus minusve constrictis, hyalinis, 20-25 \approx 2-2 $\frac{1}{2}$. 2802
- Hab.* ad folia viva vel languida *Dianthi sinensis* in hortis, Belluno Ital. bor. vulgatissima.
250. **Septoria calycina** Kickx Fl. cr. Fl. I. p. 426. — Peritheciis magnis, brunneo-fuscis dein nigris, amphigenis, innatis prominulis, epidermidem roseam dein luteo-croceam perforantibus; sporulis cylindricis, rectis vel curvatis, utrinque obtusis vel subito attenuatis, 5-7 nucleatis, hyalinis; cirris roseo-pallidis. 2803
- Hab.* in calycibus *Dianthi Carthusianorum*, Courtrai in Belgio.
251. **Septoria Lychnidis** Desm. 17 Not. 6, p. 21, Lasch in Kl. Herb. Myc. n. 1683. — Maculis amphigenis, irregularibus, brunneo-rubris vel pallide rufis; peritheciis globoso-lenticularibus, innatis fusco-nigricantibus, poro late apertis; sporulis longissimis, linearibus, rectis vel curvatis, 50-70 \approx 2,5-3, 5-7-septatis, utrinque obtusiusculis, hyalinis. 2804
- Hab.* in foliis *Lychnidis dioicæ* in Gallia et Italia bor.
252. **Septoria Melandrii** Pass. F. Parm. Sept. n. 11. — Maculis sub-

rotundis, exaridis, rubiginosis, area fusca effusa cinctis; peritheciis immersis, badiis, luce transversa tantum perspicuis; sporulis filiformibus, rectis vel flexuosis, integris, obscure nucleolatis, 40-60 \approx 2,5.

Hab. in foliis *Lychnidis vespertinæ*, L. diurnæ in agro parmensi Italiæ bor.

253. **Septoria Stellaris** Rob. et Desm. Not. XIV. p. 22. — *Amphigena*; maculis albidis minutis dein confluentibus; peritheciis minutissimis, fuscis, poro apertis; sporulis bacillaribus, curvulis, 50-60 \approx 1, indistincte septulatis, hyalinis.

Hab. in foliis languescentibus *Stellaris mediæ*, St. *cerastioidis* in Gallia, Italia et Sibiria asiatica.

254. **Septoria Stellaris-nemorosæ** Roum. Revue Myc. 1882, p. 99, F. G. n. 2033. — Maculis elongatis, veaulis foliorum limitatis; peritheciis distinctis; sporulis ovalibus, 70-90 \approx 35-45 («an potius 7-9 \approx 3,5-4,5?»).

Hab. in pag. sup. foliorum *Stellaris nemorum*, Malmedy. — «Potius *Phyllosticta*».

255. **Septoria Cerastii** Rob. et Desm. XVII. Not. p. 21, Kickx Fl. I. p. 435, Sacc. Mich. I. p. 260. — Maculis luteo-pallidis dein griseo-cinereis; peritheciis amphigenis vel cauliculis, in centro maculæ sitis, globoso-lenticularibus, nigris, poro pertusis, 80 μ . diam.; sporulis bacillaribus, 30-40 \approx 1, rectis vel lenissime curvis, obsolete guttulatis, hyalinis; cirris minutis albis.

Hab. in foliis caulibusque languentibus *Cerastii vulgati*, C. *trivialis* in Belgio, Ital. bor. et Gallia.

256. **Septoria Spergulæ** West. Bull. ac. r. Belg. II. ser. t. XII. n. 7, et Exsicc. n. 1155. — Maculis nullis; peritheciis punctiformibus, nigris, ubique dense sparsis; sporulis cylindricis, rectis vel curvatis, 30 \approx 2-2,5.

Hab. in foliis et caulibus *Spergulæ arvensis*, Beverloo in Belgio (TOSQUINET).

257. **Septoria Scleranthi** Desm. 24 Not. 1857, p. 9. — Maculis obliteratis; peritheciis dense sparsis, innato-prominulis, convexis, nigris, subnitidis, ostiolo minutissimo conico instructis; sporulis linearibus subarcuatis, indistincte nucleolatis, 30-35 μ . longis.

Hab. in foliis et caulibus *Scleranthi* in Gallia et Britannia.

258. **Septoria Violæ** West. exs. fasc. 2, n. 91, Kickx Fl. crypt. Fl. I. p. 434. — Peritheciis epiphyllis, minutis, numerosis, brunneo-luteis, membranaceis, in maculis orbicularibus, pallidis, zonatis, brun-

neo-rufo cinctis; sporulis filiformibus, rectis vel flexuosis, obsolete guttulatis, hyalinis.

Hab. in foliis languidis *Violæ caninæ*, *V. silvestris*, *V. pinnatæ* in Belgio, Britannia, Italia.

259. **Septoria violicola** Sacc. *Sept. Violæ* Rabenh. in Kl. Herb. myc. 2812
n. 1457. Fuck. Symb. myc. App. p. 82. — Peritheciis epiphyllis majusculis, subdiaphanis, convexis maculâ brunneo-atrâ punctatâ cinctis; sporulis lunulato-curvatis, 1-2-septatis, $24 \approx 7-8$.

Hab. in foliis adhuc vivis *Violæ bifloræ* in Germania et Helvetia. — An *Marsonia* v. *Septoglœum*?

260. **Septoria Arabidis** Sacc. Mich. I. p. 192. — Maculis nullis; pe- 2813
ritheciis in foliis arescendo subochraceis sparsis gregariisque punctiformibus, prominulis ostiolo latiusculo pertusis; sporulis filiformibus, curvulis v. flexuosis, $35-40 \approx 2$, obsolete septatis, continuis, utrinque acutiusculis, hyalinis, denique in cirrum protrusis.

Hab. in foliis *Arabidis ciliatæ* in alpibus Cadore (Belluno) Ital. bor. (S. VENZO).

261. **Septoria Armoraciæ** Sacc. Mich. I. p. 187. — Maculis irregu- 2814
laribus, arescendo ochraceis; peritheciis punctiformibus, in centro maculæ aggregatis, diam., 60μ ., poro pertusis; sporulis bacillaribus, curvulis, $15-20 \approx 2-2\frac{1}{2}$, utrinque obtusiusculis, 1-3-septatis minuteque guttulatis, hyalinis.

Hab. in foliis *Armoraciæ rusticanæ*, Selva in Italia bor. — *Ascochyta Armoraciæ* Fuck. Symb. 289. huc forte spectat, sed ibi sporulæ indscriptæ. Quo pertineat *Depazea vagans* f. *Armoraciæ* Rbh. Myc. 867 ignoro. *Ascochyta Armoraciæ* Cooke F. B. n. 32 est vera *Phyllosticta*.

262. **Septoria Berteroæ** Thüm. Fungi austr. n. 1188. — Peritheciis 2815
minutis, gregariis, conicis, atris in macula nivea expallescente; sporulis filiformibus.

Hab. in foliis vivis *Berteroæ incanæ*, Hohenstein in Austria inf. (THÜMEN).

263. **Septoria lepidiicola** Ell. et Mart. Am. nat. n. 1002. — Maculis 2816
pallidis, subregularibus, $\frac{3}{4}$ mill. diam.; peritheciis fusco-castaneis, aggregatis, 74μ . diam.; sporulis hyalinis, cylindræis, leviter curvatis, utrinque obtusis, guttulatis vel septatis, $24-33 \approx 2,5-3$.

Hab. in foliis vivis *Lepidii virginici*, West Chester Pennsylvania.

264. **Septoria Lepidii** Desm. Ann. Sc. nat. 1842, XVII. p. 110. — 2817
Amphigena; maculis nullis; peritheciis sparsis vel approximatis,

nigris, innato-prominulis, convexis, demum ore orbiculari late apertis; cirris albis; sporulis elongatis, linearibus, flexuosis, 50-60 μ . longis.

Hab. in foliis vivis Lepidii latifolii, L. campestris, L. officinalis, L. affinis in Italia, Britannia, Belgio, Gallia, Lusitania, Germania et Sibiria asiatica.

265. **Septoria Cardamines** Fuck. Fungi Rhen. n. 2595. — Pustulis 2818 sparsis, in maculis fusco-nigris effusis, nidulantibus, majusculis, hemisphæricis, primo diaphanis, siccis nigris, depressis; sporulis cylindræis, vermicularibus, continuis, hyalinis, 60 = 4-6.

Hab. in foliis ceterisque partibus Cardamines pratensis, quæ hinc nigrescunt et arescunt, in Rhenogovia.

266. **Septoria Sisymbrii** Ellis Amer. Nat. 1882, p. 811. — Peritheciis 2819 minutis, erumpentibus, sparsis vel 3-4 aggregatis; maculis arescendo albidis; sporulis linearibus, 1-2-septatis, 30-40 = 3-3,5, sæpe curvatis, utrinque obtusis.

Hab. in foliis Sisymbrii in America bor.

267. **Septoria uliginosa** Speg. F. Arg. IV. n. 294. — Maculis magni- 2820 tudine ludentibus, amphigenis, determinatis, suborbicularibus ob confluentiam difformibus candidis v. pallescentibus; peritheciis epiphyllis, centralibus densiuscule gregariis, minutis 80-90, μ . diam., tenuissime membranaceis, contextu minutissime celluloso, fuligineo-olivaceo; sporulis cylindræo-filiformibus, antice subincrassatulis, rectis v. flexuosis, 30-50 = 2-2,5, hyalinis.

Hab. in foliis vivis Nasturtii Bonaërensis, in uliginosis, Parque de Palermo, Boca del Riachuelo Argentinae.

268. **Septoria Henriquesii** Thüm. Contr. Myc. Lus. n. 393. — Peritheciis 2821 amphigenis, numerosis, gregariis, punctiformi-emersis, opaco-nigrescentibus, parvulis, sine macula sed labe parvas cinerescentes formantibus; sporulis bacillaribus, subrectis v. minime curvulis, utrinque obtuso-rotundatis, uniseptatis, hyalinis vel pallidissime griseolis, 8-11 = 2.

Hab. in foliis vivis languidisve Matthiolæ incanæ in horto botanico Coimbra Lusitaniae.

269. **Septoria Erysimi** Niessl Mähr. Kryptogamenflora II. p. 37. — 2822 Hypophylla; maculis pallidis non limitatis; peritheciis gregariis, innatis, minutis, fuscis; cirris pallidis; sporulis fere cylindricis rectis aut curvatis, utrinque obtusiusculis, 24-34 = 2,5, hyalinis, 1-3-septatis, guttulis pluribus.

Hab. in foliis emortuis Erysimi cheiranthoidis prope Gr. Niemtschitz Moraviae.

270. **Septoria Cheiranthi** Rob. et Desm. XIV. Not. 20. — Maculis 2823
amphigenis, helvolis, rotundatis vel irregularibus; peritheciis epi-
phyllis paucis, nigris, prominulis, poro pertusis, dein collabascen-
do concavis; cirris eburneo-subcarneis; sporulis tenuissimis, 25 \approx
1, curvulis, 6-8-nucleatis.

Hab. in foliis languescentibus Cheiranthi Cheiri in Gallia
et Italia.

271. **Septoria Polygalæ** Peck et C. Rep. on the St. Mus. N. Y. — Pe- 2824
ritheciis minutis, sparsis vel aggregatis, nigris; sporulis filiformi-
bus, rectis vel leniter curvulis, 25-40 μ . longis.

Hab. in foliis emortuis Polygalæ paucifoliæ, Portage
Amer. borealis (CLINTON).

272. **Septoria consocia** Peck, Bot. Gaz. 1880, p. 34. — Peritheciis, 2825
65-75 μ . diam., gregariis, amphigneis, nigris; sporulis filiformi-
bus, rectiusculis, 15-20 μ . longis.

Hab. in foliis vivis languidisve Polygalæ Senegæ cum *A-*
cidio, Michigan Amer. bor. (V. M. SPALDING).

273. **Septoria Capparidis** Sacc. Mich. I. p. 185. — Maculis amphi- 2826
genis e circulari angulosis arescendo pallide ochraceis, quandoque
elevatis; peritheciis gregariis punctiformibus, atris, globoso-lenti-
cularibus 40-50 μ . diam., poro obsolete; sporulis filiformi-bacilla-
ribus, 15-20 \approx 1-1½, fasciculatis, rectis, curvulis v. tortuosis, sæpe
minute guttulatis, hyalinis.

Hab. in foliis Capparidis rupestris una cum *Cystopo Cap-*
paridis, Montorio (Verona) Ital. bor. (A. GOIRAN).

274. **Septoria Chelidonii** Desmz. in Ann. Sc. natur. 1842, XVII. p. 2827
110. — *Ascochyta Chelidonii* Lib. Exs. n. 204. *Spilosphæria Che-*
lidonii Rabenh. F. Eur. n. 552. — Maculis angulosis vel rotun-
datis, viridi-olivaceis, brunneis, subinde centro aridis; peritheciis
amphigenis, innatis, minutis, leniter appianatis; cirris luteis; spo-
rulis filiformi-bacillaribus, 20-30 \approx 1,5, curvulis, continuis, hyalinis.

Hab. in foliis languidis Chelidonii majoris in Italia, Bel-
gio, Britannia, Gallia, Sibiria.

275. **Septoria Anemones** Desm. Exs. n. 940, Kickx Fl. cr. Fl. I. p. 2828
426. — Peritheciis epiphyllis minimis, gregariis, in macula fusca,
medio expallescenti-viridula; sporulis 20-22 \approx 1-1,3, obsolete 6-8-
guttulatis, filiformibus, tenuissimis, ex peritheciis apicibus pro-
fluentibus.

Hab. in foliis Anemones trifoliæ et nemorosæ in Ita-
lia, Belgio, Gallia, Germania.

276. **Septoria silvicola** Desm. Exs. n. 690, Kickx Fl. cr. Fl. I. p. 420 2829

Ascochyla anemonea Lib. Exs. n. 159. — Maculis nullis v. indeterminatis; peritheciis epiphyllis, globulosis dein depressis, nigris, sparsis; sporulis filiformibus majusculis 8-10-nucleatis, opacis; cirris albis.

Hab. in foliis *Anemones nemorosæ*, quæ hinc flavescunt vel fuscescunt, in Gallia et Belgio.

277. **Septoria Hepaticæ** Desm. Ann. Sc. nat. 1843, p. 340. Kickx 2870

Fl. Fl. I. p. 434. — Epiphylla; maculis brunneo-nigricantibus, demum albidis orbiculatis vel irregularibus et confluentibus; peritheciis innato-prominulis, minutissimis, nigris, poro apertis; ostioli punctiformibus; sporulis filiformibus flexuosis, subcontinuis, 25-30 \approx 0,7, guttulatis, hyalinis.

Hab. in foliis *Hepaticæ trilobæ* in Italia, Belgio.

278. **Septoria Cajadensis** Speg. Nov. Add. n. 163 Sacc. Mich. II. p. 2831

279. — Maculis albicantibus, cinereis vel ochraceis, rotundatis vel angulosis, sæpe pluribus confluentibus, concentrice rugosis; peritheciis minutis 80-90 μ . diam., globoso-lenticularibus, membranaceo-fuligineis, poro latiusculo pertusis; sporulis bacillaribus, rectis vel curvulis, medio 1-septatis, non vel granuloso-farctis, hyalinis, 20-25 \approx 1.

Hab. ad folia viva vel languida *Eranthidis hyemalis* in silva alpina Cajada Ital. bor.

279. **Septoria Trollii** Sacc. et Winter, Hedwigia 1883, pag. 180. — 2832

Maculis vagis, amphigenis sed sæpius epiphyllis, arescendo ochraceo-expallentibus, subimmarginatis; peritheciis perexiguis, tectis (spuriis?), gregariis, fuscillis, 40-50 μ . diam.; sporulis filiformibus, curvulis, 40-50 \approx 1-1,5, continuis, subinde spurie 1-septatis, hyalinis.

Hab. ad folia viva *Trollii europæi*, Rigi prope Luzern Helvetiæ.

280. **Septoria Ficariæ** Desm. Exs. n. 1087, Kickx Fl. Fland. I. p. 434. 2833

Sacc. Mich. II. p. 346. — Maculis epiphyllis cinerescantibus, variis, subinde brunneo-marginatis; peritheciis lenticularibus, 70-80 μ . diam. pertusis, contextu parenchymatico, ochraceo-fusco; sporulis filiformibus, 25-35 \approx 1-1 $\frac{1}{4}$, continuis, hyalinis, rectiusculis.

Hab. in foliis *Ficariæ ranunculoidis* in Italia, Britannia, Belgio, Gallia.

281. **Septoria ficariæcola** Sacc. Misc. Mycol. F. Gall. n. 2246. (An 2834

Depazea ficariæcola Lasch, Bot. Zeit. 1844, p. 426). — Maculis arescendo ochraceo-pallidis, immarginatis sæpius epiphyllis; peri-

theeciis punctiformibus depressis, atris, perforatis, 50 μ . diam.; sporulis bacillari-fusoideis, 1-septatis, 18-20 \approx 1,5, subinde curvulis, hyalinis.

Hab. in foliis *Ficariæ* ranunculoidis in Gallia, socio *Æcidio Ficariæ* et *Æcidio exanthematico* f. *Ficariæ*: conidiis ovoideis, hyalinis, 5-6 \approx 3.

282. **Septoria Ranunculacearum** Lév. in Demid. Voy. p. 114, t. V. f. 4. 2835

— Maculis brunneis; peritheciis punctiformibus, atris, sæpius epiphyllis; sporulis filiformibus, rectis vel curvulis, utrinque acutis, 50-70 \approx 1½, pluriguttulatis, hyalinis.

Hab. in foliis *Ranunculi acris*, R. *Cymbalaris* in Gallia, Italia, Sibiria Taurica. — Diagnosim originalem non vidi.

283. **Septoria Ranunculi** West. Bull. ac. roy. belg. II. ser. t. XII. 2836

n. 7. — Maculis epiphyllis, rotundatis, luteo-viridibus, pallidocinctis: peritheciis minutis, brunneis, paucis (1-3); sporulis fusiformibus, utrinque attenuatis, 4-6-globoso-nucleatis, hyalinis, 50-60 \approx 2,5.

Hab. in foliis *Ranunculi scelerati*, Louvain in Belgio.

284. **Septoria oreophila** Sacc. Mich. II. p. 280. — Maculis minutis 2837

albicantibus, olivaceo-marginatis, amphigenis; peritheciis punctiformibus, lenticularibus, pertusis; sporulis bacillaribus, curvulis, utrinque obtusiusculis, 60-65 \approx 4-4½, 3-septatis, hyalinis.

Hab. in foliis *Ranunculi aconitifolii* nondum emortuis, M. Grappa, Ital. bor. (A. Ross).

285. **Septoria polaris** Karst. Hedw. 1884, p. 38. — Peritheciis am- 2838

phigenis, hinc inde dense gregariis, sæpe maculis indeterminatis obsolete arecendo expallentibus vel nigrescentibus insidentibus; subcutaneis, emergentibus, conoideo-sphæroideis, demum pertusis, nitentibus, 0,1 mill. diam.; sporulis fusoido-bacillaribus, rectis, guttulatis, hyalinis, 16-30 \approx 2-3.

Hab. in foliis languescentibus *Ranunculi lapponici* ad Adventbay (Th. FRIES).

286. **Septoria cymbalarina** Thüm. Pilzfl. Sibir. n. 810. — Perithe- 2839

ciis amphigenis, dense gregariis, maculas asteroideas nigras efficiens, conico-emersis, parvis, nitido-nigris; sporulis filiformibus, rectis vel subcurvis, utrinque acutatis, medio plerumque uniseptatis, hyalinis, 20-24 \approx 1,5.

Hab. in foliis languidis aridisve *Ranunculi Cymbalaris*, Minussinsk Sibiricæ asiaticæ. — A *Septoria Ranunculacearum* et *S. Ficariæ* longe diversa.

287. **Septoria Hellebori** Thüm. Fung. Austr. n. 898. Revue Mycolog. 2840
IV. p. 217. — Peritheciis minimis, subimmersis, atris in macula
spadicea, arida; sporulis.....

Hab. in foliis vivis Hellebori nigri pr. Hieflau Styriæ et
pr. Gorizia, et Hellebori fœtidi, Fontainebleau Galliæ.

288. **Septoria Clematidis** Rob. et Desm. in Ann. Scienc. nat. 1853, 2841
XX. p. 93. — Maculis griseo-fuscis, amphigenis, circularibus vel
angulosis fusco-marginatis; peritheciis amphigenis, minutissimis,
innatis, pallido-brunneis, apice pertusis; sporulis bacillaribus, 70-
80 \approx 4, utrinque obtusiusculis, quandoque subclavulatis, leniter cur-
vis, 4-6-septatis, hyalinis.

Hab. in foliis vivis Clematidis Vitalbæ in Britannia, Ita-
lia, Austria inf., in foliis Clematidis glaucæ, Minussinsk Si-
biræ. — *Sept. Clematidis* Cooke F. B. n. 33 est potius *Phyl-
losticta*.

289. **Septoria Flammulæ** Passer. Fung. Parm. Sept. n. 2 (in nota). 2842
— Maculis subrotundis exaridis, areola ampla fusco-violacea cin-
ctis; peritheciis centralibus subcircinatis prominulis; sporulis te-
nuibus breviusculis continuis non nucleolatis.

Hab. in foliis Clematidis Flammulæ, Monticci prope Fi-
renze in Italia.

290. **Septoria Clematidis-Flammulæ** Roumeg. Revue Mycolog. V. p. 2843
178. — Maculis rotundatis, minutis, griseis, dein albis lucidisque,
brunneo-cinctis; peritheciis plerumque marginalibus; sporulis fi-
liformibus, utrinque acutis, rectis, hyalinis, 3-5-septatis, 30-35 \approx
2-2,5.

Hab. in foliis Clematidis Flammulæ, Barbizon Galliæ.

291. **Septoria Jenissensis** Sacc. Mich. II. p. 114. — Maculis nullis 2844
v. obsoletis; peritheciis amphigenis laxè gregariis, punctiformibus,
lenticularibus, $\frac{1}{10}$ - $\frac{1}{8}$ mill. diam., contextu minute parenchymatico,
fusco; sporulis bacillaribus rectiusculis v. curvis, utrinque rotun-
datis, 30-40 \approx 3, 1-septatis, hyalinis; basidiis (ut plerumque more
generis) nullis.

Hab. in foliis languidis Clematidis glaucæ ad ripas fl. Je-
nissei in Sibiria asiatica (MARTIANOFF).

292. **Septoria Clematidis-rectæ** Sacc. Myc. Ven. n. 321 et Fungi Ven. 2845
V. p. 205. — Maculis albido-griseis, variis, exaridis; peritheciis
generis, paucis; sporulis crassiusculè vermicularibus, 38-40 \approx 3-
3,5, 3-septatis, hyalinis.

Hab. in foliis languidis Clematidis rectæ, Covolo (Treviso)

Ital. bor. — Sporularum forma a *S. Clematidis* Desm. statim dignoscitur.

293. **Septoria Viticellæ** Passerini in Rabenhorst Fungi europæi, n. 2846
1954, Funghi Parm. Sept. n. 1. — Amphigena; peritheciis sparsis
vel laxè irregulariter gregariis, punctiformibus, atris; sporulis
longis subcurvis continuis in cirrum album effluentibus.

Hab. in foliis Clematidis Viticellæ, Parma in Italia bor.

294. **Septoria Delphinella** Sacc. Mich. II. p. 347. — Maculis amphi- 2847
genis, fusco-olivaceis; peritheciis subsparis, punctiformibus, len-
ticularibus, pertusis, 120 μ . diam., contextu distincte parenchyma-
tico, fuligineo; sporulis acicularibus, curvulis, 45-50 = 2, obsolete
3-septatis, deorsum crassioribus, hyalinis.

Hab. in foliis Delphinii Ajacis nondum emortuis, Saintes
Galliæ (BRUNAUD).

295. **Septoria Staphysagriæ** Winter Contr. Myc. Lus. n. 805. — Pe- 2848
ritheciis in macula rotundato-angulata, demum irregulari, medio
pallida exaridaque, late fusco cincta, determinata, amphigenis, gre-
gariis, punctiformibus, atris, 50-70 μ . lat.; sporulis bacillaribus,
sæpe parum curvatis, utrinque subattenuatis non vel vix visibiliter
uniseptatis, hyalinis, 10-16 = 1½.

Hab. ad folia viva Delphini Staphysagriæ, Serra d'Ar-
rabida Lusitaniæ.

296. **Septoria Lycoctoni** Speg. Dec. Mycol. 118, Sacc. Mich. II. p. 2849
167. — Maculis parvulis irregularibus, candidis, zona atro-fusca
cinctis; peritheciis laxè gregariis, parvulis, parenchymate immer-
sis, lenticularibus, 100-120 μ . diam., ostiolo parvulo pertusis, con-
textu membranaceo-parenchymatico fuligineo; sporulis filiformibus
indistincte pluriseptatis, rectis curvulisve, 25-35 = 1½-2, hyalinis.

Hab. in foliis vivis v. languidis Aconiti Lycoctoni in silva
Cansiglio Ital. bor. (SPEGAZZINI).

297. **Septoria Napelli** Speg. Nov. Add. n. 162. Sacc. Mich. II. p. 166. 2850
— Maculis nullis; peritheciis hypophyllis, laxè gregariis vel spar-
sis, subcutaneis, udis prominulis, siccis cupulatis et difficillime per-
spicuis, atro-olivaceis, majusculis, 120-130 μ . diam., ostiolo minu-
to pertusis, lentiformi-hemisphæricis, contextu fuligineo-olivaceo,
membranaceo-parenchymatico; sporulis cylindræo-filiformibus,
guttulatis vel septulatis, 50-100 = 2-4, hyalinis.

Hab. ad folia viva Aconiti Napelli in alpinis Salattis et
M. Stella Cadore Ital. bor.

298. **Septoria Aquilegiæ** Penz. et Sacc. F. Mont. Gener. n. 120 — 2851

Maculis effusis, fuligineis vel atris; peritheciis dense gregariis, minutissimis, punctiformibus, 70-80 μ . diam., depressis, ostiolatis, contextu parenchymatico, atro-brunneo; sporulis rectiusculis vel leniter curvulis, utrinque attenuatis, filiformibus, continuis, eguttulatis, 25-30 \approx 0,5-0,8; basidiis obsoletis.

Hab. in foliis vivis Aquilegiæ atratæ in pratis Montis Generosi Insubriæ (O. PENZIG).

299. **Septoria podophyllina** Peck Bot. Gaz. 1879, p. 170. — Maculis 2852
latiusculis, indefinitis, rubro-brunneis; peritheciis epiphyllis, paucis, in centro macularum insidentibus pallido-nigris, prominulis, siccis collabentibus; sporulis filiformibus, longitudine variabilibus, plus minusve curvatis, 20-38 μ . longis.

Hab. in foliis vivis Podophylli peltati, Illinois Amer. bor. (S. A. FORBES).

300. **Septoria Coptidis** B. et C. North Americ. Fungi n. 436^{bis}. — 2853
Maculis rufulis rufo-marginatis; sporulis brevioribus filiformibus, 25 μ . longis, rectis.

Hab. in foliis Coptidis, Wisconsin Amer. bor.

301. **Septoria macropora** Sacc. Mich. II. p. 538. — Maculis sæpius 2854
epiphyllis, angulosis, inter nervos, sordide et pallide fuscis, non marginatis; peritheciis regulariter gregariis, globuloso-lenticularibus, velatis, 120-140 μ . diam., poro amplo apertis, contextu tenuissimo parenchymatico, fulvo-pallescente; sporulis bacillaribus, curvulis v. subflexuosis, 45-55 \approx 1,5-2, 4-6-guttulato-pseudoseptatis, hyalinis, utrinque obtusiusculis.

Hab. in foliis languidis Pæoniæ officinalis in M. Generoso Insubriæ (O. PENZIG). — *Sept. Pæoniæ* West., Lamb. Myc. Belg. III. p. 125 differt maculis atrocinctis, peritheciis nigricantibus etc.

302. **Septoria Martianoffiana** Thüm. Pilzfl. Sibir. n. 117. — Peritheciis 2855
epiphyllis, gregariis vel raro sparsis, in maculis amphigenis, exaridis, fuscis, demum albescentibus orbiculatis, obscurius marginatis, subglobosis, atris; sporulis cirro hyalino spirali ejectis, fusiformibus, curvatis, uni-biseptatis, utrinque acutatis, longissimis, achrois, 45-60 \approx 2-2,5.

Hab. in foliis vivis Pæoniæ anomalæ in subalpinis prope Utunschul Sibiricæ asiaticæ.

303. **Septoria Pæoniæ** West. Bull. ac. roy. belg. t. XIX. n. 9. — 2856
Maculis epiphyllis, rotundatis, brunneis, purpureo-cinctis; peritheciis agglomeratis, immersis, brunneis; ostiolo poriformi; sporulis cylindricis, flexuosis, utrinque obtusis, 10-15-nucleolatis.

- Hab.* in foliis *Pæoniæ sinensis*, Namur, Belgio (BELLYNCK).
— Forma in foliis *Pæoniæ officinalis* lecta prope Rouen Galliæ (LETENDRE) præbet sporulas bacillares 15-20 \approx 1½, spurie 1-septatas, hyalinas.
304. **Septoria Saxifragæ** Pass. Micr. ital. n. 16. — Maculis subdiscoi- 2857
deis, castaneo-fuscis, centro perithecia immersa vix perspicua, foventibus; sporulis bacillaribus rectis, integris hyalinis, 17-30 \approx 3.
Hab. in foliis *Saxifragæ rotundifoliæ* in Apennino parmensi ad Lago santo.
305. **Septoria Sedi** West. Exs. n. 943, Kickx Fl. cr. Fl. t. I. pag. 2858
429. *Ascochyta Sedi* Lib. Exs. n. 249. — Epiphylla; maculis circularibus, griseis dein griseo-brunneis; peritheciis minutis, numerosis brunneis, sparsis, erumpentibus; sporulis cylindricis, rectis vel leniter curvatis, 5-nucleatis; cirris albis.
Hab. in foliis *Sedi Telephii* in Belgio et Anglia.
306. **Septoria Diapensiæ** Karst. Fung. Vain. p. 142. — Peritheciis 2859
sparsis v. laxe gregariis, raro confertis, rotundatis, erumpenti-superficialibus, atris, 100-150 μ . diam.; sporulis bacillaribus v. cylindræis guttulatis v. spurie tenuiter pluriseptatis, rectis, subchlorino-hyalinis, 17-21 \approx 2.
Hab. in foliis emortuis *Diapensiæ lapponicæ* in Lapponia extrema (VAINIO).
307. **Septoria Cucurbitacearum** Sacc. Fungi Ven. V. p. 205. — Ma- 2860
culis albis, subcircularibus angulosisve, exaridis; peritheciis lentiformibus, 70-90 diam., poro late hiantibus; sporulis anguste vermicularibus, tortuosis, 60-70 \approx 1, septulatis, hyalinis.
Hab. in foliis languidis *Cucurbitæ Peponis*, *C. maximæ* et *Bryoniæ dioicæ* in agro parmensi, veneto, goritiensi, in Lusitania et America boreali.
308. **Septoria Cyclantheræ** Speg. F. Arg. Pug. II. n. 113. — Maculis 2861
pallide fuscescentibus pellucidis, 1-5 mill. diam., indeterminatis, anguloso-diformibus; peritheciis minutissimis, 70-80 μ . d., globoso-lenticularibus, poro minuto pertusis atris tenui-membranaceis, contextu parenchymatico, fuligineo; sporulis filiformibus, flexuosis, hyalinis, granuloso-farctis, 40-50 \approx 1-1½, continuis.
Hab. in foliis languidis *Cyclantheræ Hystriæ* in umbrosis secus Rio de la Plata cerca de la Recoleta Argentina.
309. **Septoria autumnalis** Speg. F. Arg. Pug. IV. n. 284. — Maculis 2862
parvulis 0,5-1 mill. diam., amphigenis, determinatis, candidis, suborbiculari-angulosis non v. vix areola pallescente cinctis; perithe-

ciis epiphyllis, centralibus minutis, 70-80 μ . d., paucis, lenticularibus tenuissime membranaceis, contextu parenchymatico olivaceo-fuligineo, ostiolo latiusculo; sporulis bacillari clavulatis, curvulis utrinque obtusiusculis 25-30 \approx 1, grosse guttulatis v. pseudoseptatis, hyalinis.

Hab. in foliis vivis v. languidis *Trianospermæ ficifoliæ* in dumetis numerosis, Parque de Palermo Argentinae.

310. **Septoria Umbelliferarum** Kalchbr. Grev. 1880 p. 20. — Maculis ²⁸⁶³ suborbicularibus, fuscis; peritheciis in centro maculæ sitis, punctiformibus; sporulis 35-50 μ . longis linearibus, rectis vel flexuosis, hyalinis.

Hab. in foliis *Umbelliferarum* in Africa australi.

- 311 **Septoria Heraclei** Desm. Esx. n. 534. *Aschochyta Heraclei* Lib. ²⁸⁶⁴ Exs. num. 51. — Amphigena sed distinctius hypophylla; maculis nullis v. obsolete flavicantibus; peritheciis sparsis v. maculiformiter aggregatis innatis, brunneis, subglobosis, pertusis; cirris albidis; sporulis cylindræis, curvatis, 45-50 \approx 3,5-4, utrinque obtusis, 5-nucleatis vel 4-septatis, hyalinis.

Hab. in foliis *Heraclei Sphondylii* in Britannia, Italia, Germania et Hollandia.

312. **Septoria Oreoselini** (Lasch) Sacc. Mich. I. p. 128. *Aschochyta* ²⁸⁶⁵ *Oreoselini* Lasch, in Kl. Herb. myc. n. 856 (non vidi). — Maculis subcircularibus expallentibus rufo-marginatis; peritheciis punctiformibus, lenticularibus, pertusis, 80-85 μ . diam.; sporulis filiformibus, curvulis, 25-26 \approx 1½, continuis, hyalinis.

Hab. in foliis *Peucedani Oreoselini* in Germ. et Austria.

313. **Septoria Pastinacæ** West. Exic. n. 639, Kickx Fl. Fl. I. p. 424. ²⁸⁶⁶ — Maculis indeterminatis pallide viridibus dein brunneolis; peritheciis sæpius hypophyllis, globuloso-depressis, pertusis, subaggregatis; sporulis bacillaribus, pluri-(16-20)-guttulatis septulatisque, hyalinis, 60 \approx 2; cirris pallide carneis.

Hab. in foliis languidis *Pastinacæ sativæ* in Gallia, Belgio, Italia.

314. **Septoria pastinacina** Sacc. Mich. II. p. 102. Peck 33 Rep. St. ²⁸⁶⁷ Mus. p. 24. *Sept. Pastinacæ* Sacc. Mich. I. p. 188, nec West. — Maculis diffusis, indefinitis, brunneis; peritheciis minutis, 120-150 μ . diam. applanatis, ostiolo epidermidem perforante, nigris; sporulis filiformibus curvis vel flexuosis, 20-30 \approx 0,7-1.

Hab. in caule *Pastinacæ sativæ*, pr. Treviso Ital. bor. et Albany Amer. bor.

315. **Septoria bupleuricola** Sacc. *Septoria Bupleuri* Thüm. Pilzfl. Sib. 2868

Thüm. n. 628. — Peritheciis epiphyllis, dense gregariis, conico-emer-sis, nitido-aterrimis in maculis orbicularibus primo indeterminatis, et fuscis, demum arescendo albo-griseis, fusco-fuligineo late marginatis; sporulis numerosis, bacillaribus, rectis vel raro subcurvatis, utrinque obtusis, continuis, hyalinis, 24-30 \approx 2.

Hab. ad folia viva Bupleuri aurei in silvis subalpinis pr. fluvium Baraksan Sibiriae asiaticæ. — Ut videtur, *Depazea Bupleuri* Fuck. Symb. mycol. p. 382 huc forte spectat sed sporulæ non descriptæ sunt!

316. **Septoria Bupleuri** Desm. 17 Not. 1849. p. 20, Exs. n. 1317. — 2869

Maculis minutis, subrotundis, albidis, nigro-cinctis; peritheciis hypophyllis, paucis, poro apertis; cirris albis; sporulis elongatis curvulis vel rectis, utrinque obtusis, 50 μ . longis, 3-septatis.

Hab. in foliis Bupleuri fruticosi et frutescentis in Gallia et Lusitania.

317. **Septoria Ægopodii** (Pr.) Sacc. *Cryptosporium Ægopodii* Preuss 2870

F. Hoyersw. n. 322. — Maculæ crustacæ sparse insidens; peritheciis innatis, dein erumpentibus, atris; basidiis conicis, hypostromati celluloso insidentibus; sporulis longissimis, clavato-filiformibus, albis; episporio glabro; nucleo turbido.

Hab. ad folia Ægopodii, Hoyerswerda.

318. **Septoria ægopodina** Sacc. Mich. I. p. 185. — Maculis epiphyllis 2871

minutissimis, angulosis brunneis dein arescendo dealbatis, rufo-marginatis; peritheciis sparsis punctiformibus, lenticularibus, 70 μ . diam., pertusis; sporulis filiformibus, exilibus, 25 \approx 1 $\frac{1}{4}$, leniter curvis, minute pluri-guttulatis, hyalinis.

Hab. in foliis Ægopodii Podagrariæ in silva Montello, Treviso et Parma Italiæ bor. — Cum *Septoria Podagrariæ* Lasch. (= *S. Ægopodii* Desm.) nec non cum ejus varietate β . *Rabenhorstii* Kx. Flandr. I. 427 hæc species nil commune habet.

319. **Septoria Podagrariæ** Lasch in Herb. myc. n. 458, *Septoria Æ-* 2872

gopodii Desm. Crypt. Franc. 616. *Ascospora Ægopodii* de Thüm. Fung. austr. 149. — Maculis lacteis vel pallidis; peritheciis epiphyllis innatis in pagina folii utraque prominulis subsphæroideis poro pertusis, atris latit. circiter 150 μ . diam.; sporulis cylindraceis, curvulis hyalinis, 70-80 \approx 3-4, 6-7-nucleatis.

Hab. in foliis vivis Ægopodii Podagrariæ in Germania, Italia, Britannia, Gallia, Belgio.

320. **Septoria Sii** Rob. et Desm. Not. XXI. pag. 8. *Ascochyta Sii* 2873

Lasch. — Maculis suborbicularibus dein angulosis, luteis dein brunneis, tandem albidis, sæpe flavido-marginatis; peritheciis epiphyllis, minutis, brunneis, leniter prominulis; sporulis filiformibus, rectis vel curvatis, 10-20-nucleolatis, 30-40 \approx 2,5; cirris albis.

Hab. in foliis *Sii latifolii* et *S. angustifolii* in Belgio, Italia, Gallia. — Duas formas observavi in *Sio angustifolio* in agro Veneto, nempe: *foliicola* sporulis filiformibus, curvulis, 30 \approx 1½, continuis, eguttulatis; et *caulicola* peritheciis perfectioribus, sporulis 40 \approx 2, 7-8-guttulatis. Hæc postrema forte distinguenda.

321. **Septoria desciscens** Sacc. Mich. II. p. 143. — Peritheciis hypophyllis, dense gregariis epidermide nigrificata velatis, sed prominulis, globoso-depressis, ⅛ mill. diam. nigris, ostiolo impresso, contextu distincte parenchymatico fuligineo; sporulis bacillaribus, curvulis, utrinque rotundatis, 48-60 \approx 4-5, plasmate 2-4-partito, hyalinis, basidiis teretibus sed irregulariter hinc inde inflatis dimidio brevioribus suffultis. 2874

Hab. in foliis *Seselis stricti* in salsis prope Lacum Tagarskoje Sibiriaë (MARTIANOFF). — Præsertim basidiis abnormibus distincta.

322. **Septoria Sisonis** Sacc. Misc. Myc. F. Gall. n. 2248. — Maculis variis expallentibus; peritheciis copiosis, punctiformibus, atris; sporulis bacillaribus, obtusiusculis, obsolete 3-septatis, 30 \approx 1,5, hyalinis. 2875

Hab. in foliis *Sisonis Amomi*, Saintes Gallie (BRUNAUD). — Ab affini *Sept. Petroselini* differt sporulis brevioribus, maculis diversis.

323. **Septoria Petroselini** Desm. Exs. n. 674 Kickx Flor. Fl. I. p. 424, *Depazea Petroselini* Desm. Ann. Sc. nat. Bot. 1840, p. 10. — Maculis brunneolis dein candidis, determinatis, amphigenis; peritheciis minutis, tenuissime membranaceis pertusis, lenticularibus, contextu parenchymatico, olivaceo; sporulis filiformibus rectis v. flexuosis, 6-10-guttulatis vel indistincte septulatis, hyalinis, 35-40 \approx 1-2. 2876

Hab. in foliis vivis v. languidis *Petroselini sativi* in Gallia, Belgio, Germania, Italia et America australi.

324. **Septoria Anthrisci** Passer. et Brun. Revue Mycolog. II. p. 250. — Peritheciis solitariis (an semper?) in maculis pallidis discoideis, parenchymate immersis, membranaceis; sporulis filiformibus, rectis vel curvulis, tenuibus, eguttulatis, integris, 40-55 μ . longis. 2877

Hab. in foliis *Anthrisci vulgaris*, Montroy in Gallia (FOUCAUD).

325. **Septoria Levistici** West. Bull. ac. roy. belg. II. ser. t. XII. 2878 n. 7. — Maculis rotundatis vel irregularibus, latis, brunneis dein albescens, margine obscuriore cinctis; peritheciis minutissimis, numerosis, sparsis; sporulis cylindricis, filiformibus, rectis vel curvatis, 30-40 μ 1-1,3.

Hab. in foliis *Ligustici Levistici* in Belgio (BELLYNCK).

326. **Septoria Bowlesiae** Speg. F. Argent. Pug. IV. n. 285. — Maculis amphigenis, subindeterminatis, orbiculari-diformibus fusco-griseis magnitudine variis, sæpe totum fere folium occupantibus, sæpe centro albis; peritheciis subperiphericis, subcircinantibus, parenchymate immersis minutissimis, 80-90 μ diam., fusco-olivaceis, tenui-membranaceis, contextu parenchymatico, olivascenti, ostiolo latiusculo pertusis; sporulis filiformibus, rectis v. flexuosis 50-60 μ 1-1,5, utrinque acutiuscule rotundatis, 3-septatis, hyalinis.

Hab. in foliis vivis *Bowlesiae teneræ* in herbosis, Boca del Riachuelo Argentinae.

327. **Septoria Spegazzinii** Sacc. *Septoria Hydrocotyles* Speg. F. Arg. Pug. IV. n. 288, nec Desm. — Maculis subnullis, indeterminatis, primo flavescentibus dein fulvescentibus, amphigenis, magnitudine ludentibus, sæpius confluentibus; peritheciis sæpius hypophyllis, sparsis, minutis, 70-80 μ d., etiam lente ægre conspiciendis, lenticularibus, tenuissime membranaceis, parenchymaticis, fuscidulis, ostiolo latiusculo impresso pertusis; sporulis cylindræo-subclavulatis, leniter curvulis v. flexuosis, utrinque obtusiusculis, 45-50 μ 1,5, granuloso-farctis, indistincte septulatis, hyalinis.

Hab. in foliis vivis *Hydrocotyles bonariensis* in uliginosis herbosis, Recoleta Argentinae.

328. **Septoria Hydrocotyles** Desm. Ann. Sc. nat. Ser. II, v. XVII. 2881 p. 109. — Epiphylla; maculis irregularibus, rufis v. brunneolis dein pallidis; peritheciis minutis, innatis, poro pertusis; sporulis linearibus, curvulis, 8-10-guttulatis, hyalinis, 16-25 μ 1-2, cirro albido.

Hab. in foliis languidis *Hydrocotyles vulgaris* in Gallia, Belgio et Britannia.

329. **Septoria nesodes** Kalch. in Grevillea, 1880, p. 20. — Epiphylla; maculis irregularibus, fuscis; peritheciis immersis, membranaceis; sporulis cylindricis, obtusis, multinucleatis, rectis vel curvulis, 20-25 μ longis.

- Hab.* in foliis *Hydrocotyles Asiaticæ* in Africa australi.
330. **Septoria Eryngii** Passer. F. Parm. Sept. n. 57. — Peritheciis 2883
carbonaceis sphæriæformibus sparsis hypophyllis; sporulis tenuis-
simis, brevibus, continuis, rectis vel curvis, 20-25 \approx 1-1,5.
Hab. in foliis putrescentibus *Eryngii campestris*, Parma
Italiæ borealis.
331. **Septoria Visci** Bresad. in litt. ad me et in Hedw. 1883, p. 180. 2884
— Maculis subcircularibus amphigenis lutescentibus, nonnihil ele-
vatis, margine concolori; peritheciis in centro maculæ hypophyl-
læ copiosis, densis, globoso-lenticularibus, late pertusis, atris, $\frac{1}{8}$ -
 $\frac{1}{6}$ mill. diam.; sporulis anguste bacillari-fusoideis, leniter curvis,
20-34 \approx 1,5, spurie obsolete 1-3-guttato-septulatis, hyalinis, utrin-
que obtusiusculis, curvulis v. flexuosis, raro rectis.
Hab. in foliis adhuc vivis *Visci albi* in silvis tridentinis
(BRESADOLA).
332. **Septoria Schelliana** Thüm. Fungi aliq. Kirghis. n. XI. — Pe- 2885
ritheciis epiphyllis, minutis, gregariis, subglobulosis, atris, semiim-
mersis in macula primo atro-brunnea, demum arescendo albo-gri-
sea, marginata; sporulis bacillaribus, minime arcuatis, utrinque ob-
tusiusculis, æqualibus, 5-7-septatis, hyalinis, 42-48 \approx 2,5.
Hab. ad folia viva *Pirolæ secundæ*, Sanarka, Orenburg
Rossiæ.
333. **Septoria Lobeliæ** Peck Report of the Botanist. 1872, p. 87. — 2886
Maculis orbicularibus, sæpe confluentibus, aridis, pallidis vel pal-
lide lacteis, nigro- vel brunneo-purpureo-marginatis; peritheciis
minutis, numerosis, nigris, adpressis, amphigenis; sporulis filifor-
mibus, simplicibus, 17-25 μ . long.
Hab. in foliis *Lobeliæ spicatæ*, Nassau, Rensselaer county
Americæ borealis.
334. **Septoria Menyanthes** Desm. 21 Not. 4, p. 5. *Ascochyta Me-* 2887
nyanthes Lib. Exs. n. 251. — Amphigena; maculis fusco-rufis,
irregularibus, non limitatis; peritheciis minutissimis concoloribus,
poro pertusis; cirris albis; sporulis elongatis, linearibus, rectis vel
curvulis, vix nucleatis, 30-40 \approx 1,6.
Hab. in foliis languescentibus *Menyanthes trifoliatæ* in
Gallia, Belgio, Britannia et Sibiria asiatica.
335. **Septoria Soldanellæ** Speg. Dec. Mycol. 115, Sacc. Mich. II. p. 2888
167. — Amphigena; maculis primo obscuris dein arescendo can-
didis sæpeque totum folium occupantibus; peritheciis globulosis,
parvulis, 70-80 μ . diam., contextu membranaceo-parenchymatico

atrofuligineo, ostiolo late hiante pertuso; sporulis filiformibus, continuis (?), 20-30 \approx 1, hyalinis.

Hab. in foliis Soldanellæ alpinæ in M. Pizzocco (Cadore) Ital. bor. (SPEGAZZINI).

336. **Septoria Cyclaminis** Dur. et Mont. Syll. p. 279. — Epiphylla; 2889
maculis rufis demum centro cinerescens; peritheciis innato-prominulis, punctiformibus, numerosis, fuscis; sporulis cylindricis, exilibus, curvulis vel rectis, haud distincte septatis, 25-30 \approx 1, hyalinis.

Hab. in foliis Cyclaminis hederifolii et europæi, Alger (DURIEU), in agro Treviso Ital. bor. (SACCARDO).

337. **Septoria Lysimachiae** West. in Bull. de Bruxel. 1852, III. p. 120. 2890
— Maculis indeterminatis, brunneis; peritheciis epiphyllis, minutis, poro terminali pertusis; sporulis linearibus rectis vel lenissime curvulis, 4-6-septatis, hyalinis, 50 \approx 1,5.

Hab. in foliis Lysimachiae nummulariæ et L. vulgaris in Belgio, Italia, Britannia, Germania.

338. **Septoria increscens** Peck 33 Rep. St. Mus. 25. — Maculis ini- 2891
tio minutis, dein majoribus, brunneis, centro aridis; peritheciis minutis, nigris; sporulis filiformibus, curvatis vel flexuosis, 30-40 μ . longis.

Hab. in foliis Trientalis Americanæ, Charlton Amer. bor.

339. **Septoria Wilsoni** Clinton in Peck Rep. on the St. Mus. N. Y. — 2892
Maculis sparsis, suborbicularibus, aridis, albidis vel pallidis, fusco-cinctis; peritheciis minutis, nigris; sporulis filiformibus, curvatis, nucleolatis, 35-50 μ . longis.

Hab. in foliis Chelones glabræ, Buffalo Amer. bor.

340. **Septoria Phlogis** Sacc. et Speg. in Mich. I. p. 184. — Macu- 2993
lis subcircularibus minutis albis, late fuligineo-rufo-marginatis; peritheciis sparsis paucis, punctiformibus, lenticularibus, 150-200 μ . diam., pertusis, laxe ochraceo-parenchymaticis; sporulis bacillaribus, flexuosis, 40-60 \approx 1-2, tenuiter 1-3-septatis, hyalinis.

Hab. in foliis Phlogis paniculatæ, Conegliano Italiæ bor. (SPEGAZZINI).

341. **Septoria verbascicola** B. et C. Rep. on the St. Mus. N. Y. (no- 2894
men sine diagnosi).

Hab. in foliis Verbasci Blattariæ, Albany et Buffalo Americæ borealis.

342. **Septoria exotica** Speg. F. Arg. Pug. II. n. 107. — Maculis minu- 2895
tis, 1-3 mill. lat., dense sparsis, quandoque confluentibus amphige-

nis, superne candidis, determinatis, zona latiuscula purpurascenti cinctis, inferne subindeterminatis, fulvo-fuscescentibus, zona superiore concolore ornatis; peritheciis atris, parvulis, epiphyllis 80-90, μ . d., lenticularibus tenui-membranaceis, paucis, contextu parenchymatico-olivaceo; sporulis bacillari-fusoideis, utrinque acutiusculis, rectis v. subcurvulis, granuloso-farctis 15-30 \approx 1-1,5, continuis, hyalinis.

Hab. in foliis languidis *Veronicæ speciosæ* cultæ in hortis prope la Recoleta Argentinæ et, teste Spegazzini, etiam in Europa.

343. **Septoria Veronicæ** Desm. Ann. Sc. nat. 1849, xi., p. 348. *Phyllosticta Veronicæ* Cooke F. B. n. 615. — Maculis amphigenis, parvis, subrotundis, fuscis vel griseis, dein albidis exaridis, ambitu umbrinis; peritheciis epiphyllis, globosis, prominentibus, pallidis demum fusco-nigrescentibus, poro apertis; sporulis elongatis, tenuissimis, rectis vel flexuosis, indistincte nucleolatis.

Hab. in foliis vivis vel languidis *Veronicæ hederifoliæ* in Gallia et Britannia.

344. **Septoria Gratiolæ** Sacc. et Speg. in Mich. I. p. 185. — Maculis versiformibus, arescendo fulventibus, margine concolori; peritheciis epiphyllis punctiformibus, lenticularibus, prominulis, 80-100 μ . diam., pertusis; contextu parenchymatico-sinuoso, circa ostiolum densiore; sporulis bacillaribus, curvulis, 20-22 \approx 1, obsolete guttulatis, hyalinis.

Hab. in foliis *Gratiolæ officinalis*, Conegliano Ital. bor. (SPEGAZZINI).

345. **Septoria Scrophulariæ** Peck Rep. on the St. Mus. N. Y. — Maculis minutis, aridis, albidis, purpureo-brunneo-cinctis; peritheciis paucis, superficialibus; sporulis filiformibus, curvatis, hyalinis, 25-40 μ . longis.

Hab. in foliis vivis *Scrophulariæ nodosæ*, Buffalo, Albany Amer. bor.

346. **Septoria Pentastemonis** Ell. et Everh. in litt. ad me. — Peritheciis punctiformibus nigris epiphyllis in maculis parvis, albis, orbicularibus, tenuibus, zona purpurascente cinctis; sporulis cylindricis leniter curvatis vel nucleolatis, 14-20 \approx 1, indistincte nucleatis.

Hab. in foliis *Pentastemonis Digitalis*, Anna, Illinois Amer. bor. (F. S. EARLE).

347. **Septoria Digitalis** Passer. F. Parm. Sept. n. 94. — Peritheciis minutis sparsis in maculis fuscis irregularibus effusis, tandem are-

scentibus; sporulis filiformibus, continuis, plurinucleolatis, 25-30 \approx 1,5.

Hab. in foliis Digitalis luteæ, Collecchio, Parma Ital. bor.

348. **Septoria Antirrhini** Desm. XXI. Not. Pl. Crypt. p. 3. — Maculis 2901
flavidis; peritheciis amphigenis, minutissimis, 50-70 μ . diam., sub-
prominulis, numerosis, gregariis vel sparsis, poro pertusis; cirris
albis; sporulis cylindricis, utrinque obtusis, rectis vel arcuatis, 4-
7-nucleatis (brevibus, continuis sec. Pass.), 15-20 \approx 2-2,5.

Hab. in caulibus et foliis semiputridis Antirrhini majoris in Gallia, Lusitania, Italia.

349. **Septoria Cymbalaræ** Sacc. et Speg. in Mich. I. p. 190. — Ma- 2902
culis subcircularibus fusciscentibus; peritheciis, gregariis, puncti-
formibus, lenticularibus, late pertusis, contextu parenchymatico fu-
ligineo solidiusculo; sporulis filiformibus subflexuosis, 20-35 \approx 2 $\frac{1}{2}$ -
3, utrinque obtusiusculis, pluriguttulatis, obsolete septulatis, hya-
linis.

Hab. in foliis Linariæ Cymbalaræ, Conegliano Ital. bor. (SPEGAZZINI), et pr. Alençon Galliæ (GILLET). — In forma gallica perithecia 50-60 μ . diam.; sporulæ 15-20 \approx 1-2.

350. **Septoria Acanthi** Thüm. Contrib. Myc. Lus. I. p. 25. — Peri- 2903
theciis epiphyllis, sparsis, parvulis, globulosis in maculis albido-
arescentibus, orbiculatis, dilaceratis, latissime brunneo-cinctis et con-
centrice zonatis; sporulis cylindræis, simplicibus (an semper?), sub-
curvulis, utrinque subacutatis, hyalinis, 20 \approx 2.

Hab. in foliis vivis Acanthi mollis in horto Santa Cruz Lusitaniæ.

351. **Septoria Lycopersici** Speg. F. Argent. Pug. IV. n. 289. — Ma- 2904
culis magnis sæpe totum folium occupantibus, sordide fusco-cine-
rescentibus, subindeterminatis; peritheciis sparsis sæpius hypophyl-
lis, lenticulari-hemisphæricis, prominulis, atris, membranaceis, con-
textu parenchymatico, olivaceo; sporulis bacillari-cylindræis v.
bacillari-subclavulatis majusculis, 70-110 \approx 3, 3-pluriseptatis, utrin-
que obtusiuscule attenuato-rotundatis, hyalinis.

Hab. in foliis languidis Solani Lycopersici in hortis, Boca del Riachuelo Argentinæ.

352. **Septoria Dulcamaræ** Desm. in Ann. Sc. natur. 1841, XV. pag. 2905
135. — Epiphylla; maculis parvis, suborbiculatis, brunneo-griseis,
demum albidis exaridis, ambitu fuscis; peritheciis innatis, minutis-
simis, punctiformibus, nigris; cirris tenerrimis carneis; sporulis
longis, linearibus rectis vel flexuosis, 3-4-septatis, 50-60 \approx 1,7.

Hab. in foliis vivis Solani Dulcamaræ in Italia, Gallia, Lusitania, Belgio. — Sporulæ cl. Passerinio continuæ visæ, forte ex immaturitate.

353. **Septoria Daturæ** Speg. F. Arg. Pug. II. n. 116. — Maculis candidissimis, orbicularibus determinatis, magnitudine maxime ludentibus; peritheciis minutis, 80-90 μ . d., atris, poro latiusculo pertusis, tenui-membranaceis, contextu parenchymatico, olivaceo; sporulis filiformi-subclavulatis, rectis vel curvulis, continuis, 30-40 \approx 1-1½, hyalinis. 2906

Hab. in foliis vivis Daturæ Stramonii cerca de Barracas del Sur Argentinae.

354. **Septoria bonariensis** Speg. F. Arg. Pug. I. p. 188. — Maculis orbicularibus, confluenso irregularibus, primo indeterminatis fuscescentibus dein perfecte determinatis, arido-candicantibus; peritheciis centralibus, subepidermicis, lenticulari-hemisphæricis, minutissimis, 80-90 μ . diam., atris, contextu tenue membranaceo, fusco-olivaceo, ostiolo parvulo ornatis; sporulis filiformibus utrinque obtusiusculis, 45-55 \approx 1-1,5, continuis, hyalinis, granuloso-farctis. 2907

Hab. in foliis vivis vel languidis Salpichroæ rhomboidæ in planitie pamparum, rarius, in Argentina.

355. **Septoria Polemonii** Thüm. Pilzfl. Sibir. n. 630. — Peritheciis epiphyllis, numerosis, gregariis, conico-emersis, punctiformibus, atris in maculis magnis, arescentibus dilute ochraceis, irregularibus, postremo albicantibus; sporulis bacillari-cylindræis, rectis vel minime curvulis, continuis vel obsolete uniseptatis, utrinque obtusis, achrois, 24-30 \approx 2. 2908

Hab. in foliis vivis Polemonii cœrulei, Minussinsk Sibiriae asiaticæ (MARTIANOFF).

356. **Septoria Convolvuli** Desm. in Ann. Sc. natur. 1842, XVII. pag. 108. *Sept. fuscilla* Berk. in Curr. Simpl. Sphær. n. 396. — Maculis orbicularibus, dein confluentibus irregularibusque, rufis vel brunneo-fuligineis, denique centro albidis; peritheciis innatis, minutis, epiphyllis, brunneolis, pertusis; sporulis acicularibus, curvatis, 5-6-nucleatis, 35-50 \approx 1,5. 2909

Hab. in foliis languidis Convolvuli arvensis et *C. sepium* in Italia, Belgio, Britannia, Rep. Argentina, Lusitania. — In forma *Conv. arvensis* observavi sporulas 35-50 \approx 1-1½, aciculares minutissime 5-6-guttulatas v. septulatas hyalinas; in forma *Calystegiæ* sporulas 35-40 \approx 1-1½, continuas, hyalinas, utriusque obtusiusculas. An differentiae constantes?

357. **Septoria Calystegiæ** West. Exs. n. 642 (1851), *Septoria sepium* 2910

Desm. XXI. Not. (1853) p. 4. — Maculis parvis subrotundis, brunneis, leniter elevatis, stroma quoddam fere simulantibus; peritheciis 1-3, innatis, sæpius hypophyllis, pallidis, poro apertis; sporulis cylindræis curvulis, 36-45 \approx 4-5, utrinque rotundatis, 3-5-septatis, pluriguttulatis, hyalinis.

Hab. in foliis *Convolvuli arvensis* in Ital. bor., Lusitania, Belgio, Gallia. — Verisimillime huc quoque spectat *Polystigma Calystegiæ* Kikx. quod est *Polystigma pertusarioides* Desm.

358. **Septoria Pulmonariæ** Sacc. Mich. I. p. 188. — Maculis subcir- 2911

cularibus, atro-fuscis, quandoque concentrice subplicatis; peritheciis (spuriis?) punctiformibus, late pertusis, sparsis; sporulis cylindræis, vehementer curvatis, 30-32 \approx 2, utrinque obtusiusculis, pluriguttulatis, hyalinis.

Hab. in pag. superiore foliorum *Pulmonariæ officinalis* in silva Montello Ital. bor.

359. **Septoria Globulariæ** Sacc. Mich. I. p. 182. — Maculis arecendo 2912

griseo-albicantibus, subcircularibus, epiphyllis; peritheciis parcis, lenticularibus, 50-60 μ . diam., pertusis, dein subsuperficialibus; sporulis filiformibus, 20-24 \approx $\frac{3}{4}$ -1, rectis curvulisve, obsolete guttulatis, hyalinis.

Hab. in foliis *Globulariæ vulgaris*, Conegliano Ital. bor. (SPEGAZZINI).

360. **Septoria Verbenæ** Rob. et Desm. 14 Not. 1847, p. 19. — Ma- 2913

culis suborbicularibus, determinatis, candidis, areola purpurascenti-violacea cinctis; peritheciis minutis 80-100 μ . diam., membranaceis, contextu dense parenchymatico, fuligineo; sporulis cylindræis, rectis vel flexuosis, 40-50 \approx 1-1,5, hyalinis, pluri-guttulatis.

Hab. in foliis *Verbenæ officinalis* in Gallia, Italia, Britannia, Helvetia, Amer. bor. et *V. chamædryfoliæ* in aridis prope el Banado San José de Flores in Rep. Argentina (SPEGAZZINI).

— Forma in *Verb. chamædrifolia* præbet sporulas majores 40-70 \approx 2-2,5, indistincte pluriseptulatas.

361. **Septoria Lavandulæ** Desm. 21 Not. 4. p. 2. Schröt. Mader. Pilz. 2914

n. 19. — Maculis amphigenis, numerosis, albido-exaridis, rotundatis aut irregularibus, margine elevato purpureo cinctis; peritheciis sæpe epiphyllis, paucis, minutissimis, nigris, globosis, poro pertusis, prominulis, siccis cupulatis; sporulis linearibus, rectis vel curvulis, 25-35 \approx 1-2.

Hab. in foliis languescentibus *Lavandulæ veræ* et *Lav. Stœheadis* in Gallia, Britannia, Italia boreali, Madera insula.

362. **Septoria Lamii** Passer. in Thüm. Mycotheca univ. 1183. — Pe-²⁹¹⁵
ritheciis exiguis in maculis irregularibus fusco-exaridis, venis li-
mitatis, sparsis; sporulis tenuissimis, flexuosis (continuis?) 40 μ .
longis.

Hab. in foliis vivis præcipue floralibus rarius in caulibus *Lami*
mii purpurei, Parma Ital. bor.

363. **Septoria lamiicola** Sacc. Mich. I. p. 180 (*S. Lamii*), *Sept. hete*²⁹¹⁶
rochroa forma in *Lamiis* Desm. — Maculis vagis tandem albicanti-
bus, rufo-marginatis; peritheciis punctiformibus, paucis, brunneis;
sporulis filiformibus tortuosis, 50 \approx 1, distincte 3-5-septatis, hyalinis.

Hab. in foliis *Lamii Orvalæ* et *L. albi* in Italia bor., Gal-
lia, Britannia. — A *S. heterochroa* Desm. typica differt sporulis
duplo triplove longioribus atque distincte septatis.

364. **Septoria heterochroa** Desm. Ann. Sc. natur. 1847, VIII. p. 22²⁹¹⁷
(excl. forma in *Lamiis* et *Antirrhino*). — Maculis amphigenis, spar-
sis, minutis, suborbiculatis, griseo-brunneis dein albis evanidis, sæ-
pe brunneo-cinctis; peritheciis paucis, epiphyllis rarius hypophyllis,
exilibus, fulvis, brunneis, demum nigris, poro apertis, siccis conca-
vis; sporulis linearibus, tenuissimis, rectis v. curvulis, 25 μ . long.

Hab. in foliis *Malvæ silvestris*, *Plantaginis lanceo-*
latæ in Italia, Belgio, Britannia.

365. **Septoria Lophanthi** Wint. Hedwigia 1883, p. 71. — Maculis am-²⁹¹⁸
phigenis, angulosis, fusco-atris, 1-3 mill. latis, sæpe confluentibus;
peritheciis amphigenis, gregariis, immersis, subglobosis, 150-200 μ .
diam., mox sporularum cirris velatis; sporulis filiformibus, flexuo-
sis aut curvatis, utrinque acutiusculis vel uno apice rotundato, al-
tero angustato auctore, hyalinis, non vel parce septatis, 35-55 \approx
2-2,5, in cirros albos, longos demum diffluentibus et crustam al-
bam formantibus.

Hab. in foliis vivis *Lophanthi nepetoidis*, Illinois Amer.
bor. (SEYMOUR).

366. **Septoria Menthæ** (Thüm.) Oud. Mat. Fl. mycol. Nederland. p. 4.²⁹¹⁹
Depazea Menthæ Thüm. F. Austr. n. 1275. — Maculis primitus
nigrescentibus, mox pallentibus, denique cinereis vel achromis, po-
lymorphis, 1-2 mill. diam., sparsis vel confluentibus, linea nigra
limitatis; peritheciis nigris exiguis uno vel pluribus in centro ma-
culæ cæspitose congestis; ostiolis non observatis; sporulis acicu-
laribus, hyalinis, continuis, 58 \approx 1,2.

Hab. in foliis subviviſ Menthæ arvensis in Bohemia et Hollandia.

367. **Septoria menthicola** Sacc. et Let. in Mich. II. pag. 345. (*Sept.* 2920 *Menthæ*). — Maculis minutis, subcircularibus, amphigenis, subochraceis; peritheciis punctiformibus, lenticularibus, pertusis; sporulis filiformibus, flexuosis, continuis, 30-40 \approx 1, hyalinis.

Hab. in foliis languidis Menthæ arvensis v. affinis, pr. Rouen Galliæ (LETENDRE). — A *Sept. Menthæ* maculis haud marginatis sporulisque multo brevioribus differre videtur.

368. **Septoria Melissæ** Desm. 21 Not. 4, p. 3. — Amphigena; maculis fusco-nigris, numerosis, limitatis, angulosis, irregularibus; peritheciis innato-prominulis, nigris, globosis, dein collabascendo concavis; nucleo cinereo; sporulis filiformibus, rectis vel curvulis continuis, 30 \approx 1,6.

Hab. in foliis languescentibus Melissæ officinalis in Gallia et Italia.

369. **Septoria Mellitidis** Sacc. et Speg. in Mich. I. pag. 182. — Maculis vagis arescendo dealbatis, fuligineo-cinctis; peritheciis epiphyllis, punctiformibus, subprominulis, pertusis; sporulis cylindraceo-bacillaribus, rectiusculis, 20-30 \approx 2, distincte 3-septatis, hyalinis.

Hab. in foliis Mellitidis Melissophylli, Conegliano Ital. bor. (SPEGAZZINI).

370. **Septoria Galeopsidis** West. Bull. Ac. roy. 6, II. serie t. XII. n. 7, *Ascochyta Galeopsidis* Lasch in Kl. Herb. Myc. n. 1058. — Maculis hypophyllis, subviridibus vel brunneis, irregularibus, angulosis, foliorum venulis circumscriptis; peritheciis brunneis, punctiformibus, sparsis; sporulis cylindricis, rectis vel flexuosis, 30-40 \approx 1-1,5.

Hab. in foliis Galeopsidis Tetrahit et grandifloræ in Belgio, Gallia, Italia et Germania.

371. **Septoria Scutellariæ** Thüm. Pilzfl. Sibir. n. 630. et 631. — Peritheciis epiphyllis, subgregariis, mediis, lenticulari-applanatis, nigro-fuscis in maculis arescendo-candidis, membranaceis, irregularibus, postremo cito elabentibus, latissime sordide fusco-marginatis; sporulis cylindraceis, curvatis vel subrectis, uni-biseptatis, utrinque obtusis, 40-46 \approx 2.

Hab. in foliis viviſ Scutellariæ galericulatae, Sc. scordifoliæ, Patroschilowo et Minussinsk Sibiriae asiat.

372. **Septoria Stachydis** Rob. et Desm. 14 Not. 1847, p. 19, *De-* 2925

pazea stachydicola Lasch. — Maculis amphigenis, subolivaceis, dein pallide brunneis, subexaridis, irregularibus, venulis cinctis, sparsis vel confluentibus; peritheciis epiphyllis, minutissimis, brunneo-nigris, poro apertis; sporulis bacillaribus, curvulis vel flexuosis, subcontinuis, hyalinis, 30-40 \approx 1,7-2.

Hab. in foliis languescentibus *Stachydis silvaticæ*, *St. palustris* et *St. annuæ* in Belgio, Britannia, Gallia, Italia. — β . **Stachydis arvensis** Speg. F. Arg. Pug. IV. n. 293. — Maculis sparsis, orbicularibus minutis 1-2 mill. d., albo-arescentibus determinatis; peritheciis lenticularibus, minutis 80-90 μ . d., atris membranaceis, contextu parenchymatico, fusco-olivaceo; sporulis filiformibus rectis v. flexuosis, utrinque rotundatis, 20-25 \approx 1, non v. 1-septatis, hyalinis. — In foliis *Stachydis arvensis* in Argentina, frequens (J. HIERONYMUS).

373. **Septoria Dracocephali** Thüm. Pilzfl. Sibir. n. 446. — Peritheciis 2926
epi- raro etiam hypophyllis, minutissimis, dense gregariis, subglobosis, emersis, fuscis, in maculis plus minusve orbiculatis, exarido-albescentibus mediis, griseo-fusco-marginatis, solitariis; sporulis cylindrico-fusififormibus, utrinque angustato-acutatis, leniter arcuatis, triseptatis, 30 \approx 2-2,5, hyalinis.

Hab. in foliis vivis *Dracocephali* in pratis subalpinis alpium Sajanensium Sibiricæ asiaticæ.

374. **Septoria Salviæ** Passer. Funghi Parm. Sept. n. 98. — Peritheciis 2927
minimis, semper tectis, vix prominulis in maculis exiguis subdiscoideis, primo fuscis, tandem exaridis; sporulis filiformibus, tenuibus, rectis vel parce flexuosis, continuis, intus granulosis, 65-70 μ . longis.

Hab. in foliis *Salviæ pratensis*, Collecchio pr. Parma Italiæ borealis.

375. **Septoria Lycopi** Pass. Hedw. 1878, p. 60. *Septoria palustris* 2928
Sacc. Mich. II. p. 103, (1880). — Maculis vagis amphigenis, sordide fuscis; peritheciis sparsis, vix perspiciendis, lenticularibus poro pertusis; sporulis bacillaribus, curvis, 50 \approx 2, spurie septulatis, hyalinis.

Hab. in foliis *Lycopi europæi* pr. Rouen Gallicæ (LETENDRE) et in agro parmensi (PASSERINI).

376. **Septoria Scorodoniæ** Pass. in litt. (ut var. *Sept. Teucrii*). Sacc. 2929
Miscell. Myc. n. 2243. — Maculis minutis subcircularibus, præcipue epiphyllis, denique folium perforantibus, rufo-ochraceis; peritheciis paucis punctiformi-lenticularibus, 80 μ . diam., perforatis; spo-

rulis bacillaribus, utrinque obtusiusculis, continuis, hyalinis, 28-36 = 1-1,3, eguttulatis.

Hab. in foliis languidis Teucris Scorodoniæ pr. Rouen (LETENDRE), Taillebourg Char. inf. (BRUNAUD).

377. **Septoria Teucris** Sacc. Mich. I. p. 184. — Maculis subcircula- 2930
ribus, parvis, arescendo candicantibus, fusco-marginatis; peritheciis epiphyllis, lenticularibus, punctiformibus, 90 μ . diam., pertusis; sporulis bacillaribus, curvulis, utrinque obtusiusculis, 35 = 2, obsolete pluriguttulatis, hyalinis.

Hab. in foliis Teucris Chamædryos, Conegliano Ital. bor. (SPEGAZZINI).

378. **Septoria microsora** Speg. Nov. Add. n. 161. Sacc. Mich. II. p. 2931
278. — Maculis cinnamomeis, sæpius totum folium occupantibus, arescentibus et tunc fragilibus; peritheciis hypophyllis hinc inde sparsis vel 3-5-gregariis, et sorum parvulum, punctiforme, atrum efficientibus, minutissimis, 40-50 μ . diam., ostiolo umbilicato late hiante, 10-15 μ . diam., donatis; contextu densiuscule parenchymatico, atro-fuligineo; sporulis acicularibus, utrinque acutiusculis, rectis vel curvulis, primo pluriguttulatis, dein pluriseptatis, hyalinis, 20 = 1.

Hab. in foliis Gentianæ asclepiadeæ in pascuis alpinis M. Civetta et Mojazza Ital. bor.

379. **Septoria Gentianæ** Thüm. Pilzfl. Sibir. n. 118. — Peritheciis 2932
epiphyllis, dense gregariis, subconicis, minutis, in macula pallide fusca, irregulariter dispositis; sporulis fusiformibus, curvatis, utrinque acutatis, uniseptatis, 3-5-nucleatis, hyalinis, 28 = 3.

Hab. in foliis languidis Gentianæ adscendentis, G. maranthæ pr. Minussinsk Sibiriae asiaticæ.

380. **Septoria Villarsiae** Desm. in Act. Lill. 1842, III. p. 106. — Epi- 2933
phylla; maculis parvis, rufo-griseis, suborbiculatis, 3-5 mill. diam., sparsis vel confluentibus; peritheciis innatis, minutissimis, nigris, numerosis; cirris tenuissimis albidis; sporulis elongatis, linearibus, rectis vel subflexuosis, multiseptatis, 35-50 μ . longis.

Hab. in foliis vivis Villarsiae (Limnanthemis) nymphoidis in Gallia, Italia, Germania.

381. **Septoria Limnanthemis** Thüm. F. Kirghis. n. XIII. — Perithe- 2934
ciis epiphyllis, dense gregariis, semiimmersis, punctiformibus, minutis, globosis, atris in maculis plus minusve orbiculatis, fusco-griseis, ochraceo-fusco late cinctis, subtus sordidis; sporulis bacillaribus, plerumque paullo arcuatis, utrinque subobtusatis, non vel obsolete uniseptatis, achrois, 30-45 = 2-2,5.

Hab. in foliis vivis *Limnanthemis nymphoidis* Kyb-schewa (Orenburg) Rossiaë. — An diversa a *Sept. Villarsia*?

382. **Septoria Vincetoxici** (Schub.) Auersw. in Rabenh. F. Eur. De- 2935
pazea Vincetoxici Schub. in Fic. Dresd. II. p. 352. *Sphæria Vincetoxici* Fr. Elench. II. p. 111. — Maculis epiphyllis vagis are-scendo candicantibus, fusco-marginatis; peritheciis punctiformibus, fuscis, pertusis; sporulis filiformibus, tortuosis, 30-50 \approx 1-1½, continuis, hyalinis.

Hab. in foliis languidis *Cynanchi Vincetoxici* in Germa-nia, Italia, Belgio.

383. **Septoria Hoyæ** Sacc. Mich. I. p. 172. — Maculis forma variis, 2936
 arescendo eburneis, fusco-cinctis; peritheciis lenticularibus, pertu-sis, diam. 60-70 μ . d., contextu parenchymatico, fuligineo; sporu-lis cylindræis v. clavulatis, 20-25 \approx 1-1¾, continuis v. obsolete septatis, hyalinis.

Hab. in foliis *Hoyæ carnosæ* in hortis Padova Ital. bor.

384. **Septoria asclepiadea** Sacc. Mich. I. p. 196. — Maculis nullis v. 2937
 obsolete; peritheciis amphigenis dense gregariis, globoso-lenticu-laribus, prominulis, punctiformibus, atris; sporulis bacillari-fusoi-deis, 18-20 \approx 2½-3, curvulis, utrinque obtuse attenuatis, obsolete 1-septatis, non constrictis, hyalinis.

Hab. in foliis *Cynanchi Vincetoxici* et *Marsdeniæ erectæ* in horto patavino Ital. bor. et pr. Rouen Galliaë. — A *Sept. Vincetoxici* toto cælo diversa.

385. **Septoria littorea** Sacc. Mich. II. p. 280. — Maculis subcircula- 2938
 ribus, minutis, ochraceis, late rufescenti-marginatis; peritheciis punctiformibus, lenticularibus; sporulis bacillaribus, curvulis, 50-60 \approx 2-2¼, utrinque obtusiusculis, pluriguttulatis, hyalinis.

Hab. in foliis nondum emortuis *Apocyni Veneti* in insula Lido di Venezia Ital. bor. (O. PENZIG).

386. **Septoria Araujæ** Speg. F. Argent. Pug. III. n. 112. — Maculis 2939
 nullis v. hypophyllis vix pallescentibus; peritheciis hypophyllis, laxe gregariis, globosis, subepidermicis prominulis, atris, minutis 70-80 μ . diam., tenui-membranaceis, contextu densiusculo, paren-chymatico, fuligineo; sporulis bacillaribus, utrinque rotundatis, con-tinuis, granuloso-farctis 30-40 \approx 3, hyalinis, ex ostiolo cirratim protrusis.

Hab. ad folia languida v. dejecta *Araujæ albentis* in se-pibus prope San José de Flores Argentinaë.

387. **Septoria purpureola** Speg. F. Argent. Pug. IV. n. 292. — Ma- 2940

culis magnitudine ludentibus 1-5 mill. diam., suborbicularibus, candidis, determinatis, epiphyllis, areola magna, atro-purpurea cinctis; peritheciis paucis centralibus, minutissimis 70-80 μ . d., lenticularibus, tenuissime membranaceis, contextu parenchymatico, pallide purpurascente v. fuligineo-vinoso, ostiolo minuto impresso pertusis; sporulis, cylindræo-bacillaribus, rectis v. flexuosis, utrinque obtusiusculis, 20-25 \approx 1,5, medio non v. 1-septatis, non constrictis, hyalinis.

Hab. in foliis vivis Araujæ albentis in dumetis uliginosis, Parque de Palermo et Boca del Riachuelo Argentinæ.

388. **Septoria Cruciatæ** Rob. et Desm. 14 Not. 1847, p. 20. — Ma- 2941
culis amphigenis, paucis, ovalibus vel irregularibus, fulvis, brunneo-cinctis, in ambitu luteolis; peritheciis epiphyllis prominulis, fusco-nigrescentibus, poro apertis; cirris ochroleucis; sporulis elongatis, tenuissimis curvatis, 40-50 μ . longis.

Hab. in foliis languentibus Galiorum in Gallia, in foliis Galii borealis in Rhenogovia.

389. **Septoria Galiorum** Ellis Bull. Torrey botan. Club 1882, p. 74. 2942
— Peritheciis punctiformibus, minutis, sparsis, nigro-prominulis; sporulis aciculari-filiformibus, leniter curvatis 20-25 μ . longis, subtiliter septatis.

Hab. in caulibus emortuis Galiorum in America boreali.

390. **Septoria psilostega** Ell. et Mart. Amer. Nat. 1882, p. 1001. — 2943
Maculis aureo-luteis, marginalibus; peritheciis hypophyllis, sparsis, luteis, delicatis; sporulis filiformibus, rectis vel curvatis, leviter triseptatis, 60 \approx 3, mox in cirros varios succineos exeuntibus.

Hab. in foliis Galii pilosi in America boreali.

391. **Septoria urens** Pass. Hedwigia 1881, p. 146, et F. Parm. Sept. 2944
n. 66. — Peritheciis punctiformibus, sparsis, vix nisi luce transversa perspicuis; sporulis tenuibus longis, continuis, rectis, hyalinis.

Hab. in foliis Galii tricornis, Vigheffio prope Parmam Ital. bor. — Folia fungillo correpta ab apice ad basim mox exarescunt.

392. **Septoria Adoxæ** Fuck. Symb. Myc. App. II. p. 21. — Perithe- 2945
ciis sparsis subgregariisque, quandoque in maculis exaridis, demum liberis, aterrimis, obtuse conicis, basi applanata adnatis, minutis; ostiolo obtuso, perforato; sporulis cylindræis, plerumque rectis, 2-3-ocularibus, hyalinis 32-36 \approx 4.

Hab. in foliis Adoxæ Moschatellinæ in Rhenogovia.

393. **Septoria Ebuli** Desm. et Rob. 7 Not. 1850, p. 22. — Maculis 2946

amphigenis, minutis, subrotundatis, pallide rufis vel purpureis, sparsis, interdum confluentibus, sæpe brunneo-cinctis; peritheciis epiphyllis, convexis dein depressis, griseis demum fusco-nigricantibus, poro apertis; sporulis filiformibus, lenissime curvulis, 30-40 μ = 1-1,5, obsolete guttulatis, hyalinis.

Hab. in foliis Sambuci Ebuli in Italia, Gallia, Belgio.

394. **Septoria Campanulæ** (Lév.) Sacc, *Ascospora Campanulæ* Lév. 2947

Ann. Sc. nat. 1846, p. 277. — Peritheciis hypophyllis gregariis, innatis, rugulosis, prominulis, demum depressis, macula pallida insidentibus, ostiolis obsoletis; sporulis cylindricis continuis linearibus, utrinque obtusis.

Hab. in foliis Campanularum, Ghilan Persiæ.

395. **Septoria Prismatocarpi** Desm. Ann. Sc. nat. 1853, pag. 89. — 2948

Peritheciis minutis, atris, in maculis subcircularibus, albo-exaridis, fusco-marginatis, circinatis vel sparsis; sporulis rectis, integris, hyalinis, 30-40 μ = 1,5.

Hab. in foliis languidis Speculariæ Speculi et Sp. hybridæ in Italia bor. et Gallia. — Sec. Desm. l. c. perithecia sunt amphigena prominula pertusa, in maculis fulvescentibus, non limitatis.

396. **Septoria specularina** B. et C. North Americ. Fungi n. 439 2949

(*Sept. Speculariæ*). — Peritheciis minutis sparsis in tota planta moribunda insidentibus; sporulis linearibus leviter curvatis, 25 μ . longis.

Hab. in Speculariæ Ludovicianæ moribundæ variis partibus in Carolina inf. Amer. bor.

397. **Septoria Speculariæ** B. et C. North Americ. fungi n. 437. — 2950

Maculis pallidis obsoletisve; peritheciis prominulis sparsis; sporulis filiformibus sigmatoideis.

Hab. in foliis Speculariæ perfoliatæ in Pennsylvania (MICHENER).

398. **Septoria Phyteumatis** Siegm. in Rabh. F. E. n. 1350 (non vidi). 2951

Sacc. Mich. I. p. 184. — Maculis versiformibus, arescendo expallentibus, fusco-marginatis; peritheciis sparsis punctiformibus; sporulis filiformibus, rectiusculis v. flexuosis, 15-20 μ = $\frac{3}{4}$, continuis hyalinis.

Hab. in foliis Phyteumatum, Cadore Ital. bor. (S. VENZO).

399. **Septoria Phyteumatum** Sacc. Mich. I. p. 127. — 2952

Maculis indeterminatis expallentibus; peritheciis dense gregariis, initio epidermide velatis e globoso lenticularibus, 80-100 μ . diam., poro per-

tusis, contextu parenchymatico solidiusculo fuligineo; sporulis filiformibus rectis curvulisve, 40-45 = 1, vix guttulatis, continuis, hyalinis.

Hab. in foliis *Phyteumatum* prope Vindobonam Austriæ (MARENZELLER in herb. P. MAGNUS).

400. **Septoria Adenophoræ** Thüm. Pilzfl. Sibir. n. 449. — Peritheciis 2953
epiphyllis, gregariis, conicis, atris, subprominulis in maculis griseo-exaridis, parvis, fusco-violaceo late cinctis; sporulis cylindraceo-fusiformibus, subarcuatulis, utrinque acutatis, tri-quadriseptatis, hyalinis, 42-48 = 4.

Hab. in foliis vivis *Adenophoræ tricuspidadæ* in pratis subalpinis alpium Sajanensium Sibiriae asiat.

401. **Septoria Fuckelii** Sacc. Mich. I. p. 190. *Sept. Tussilaginis* Fuck. 2954
Symb. myc. App. II. p. 83, non West. nec Thüm. Fungi Austr. n. 1187. — Maculis fuligineis, epiphyllis inæqualiter sanguineo-marginatis; peritheciis globoso-lenticularibus, majusculis, pertusis; sporulis cylindraceo-clavulatis utrinque obtusis, 40-55 = 6-7, curvulis, 4-5-septatis, leniter constrictis, obsolete guttulatis, chlorino-hyalinis.

Hab. in pagina superiore foliorum *Tussilaginis Farfaræ* in agris Treviso et Parma Ital. bor. et Rhenogovia.

402. **Septoria Farfaræ** Passer. F. Parm. Sept. n. 70. — Maculis dis- 2955
scoideis griseis tandem exaridis, linea fusca elevata limitatis et areola atro-purpurea irregulari circumdatis, subtus minus perspicuis ibique *Aecidii* vestigia exhibentibus; peritheciis minutis semi-immersis numerosis subcircinatim in maculas stipatis vel sparsis; sporulis elongato-fusiformibus, apicibus acuminatis, rectis vel leniter arcuatis, pluriseptulatis, loculis nucleolati, 55 = 3.

Hab. in foliis *Tussilaginis Farfaræ*, Parma Italiæ bor.

403. **Septoria Tussilaginis** West. Exs. n. 640. Kickx Fl. cr. Fl. I. 2956
p. 430. — Maculis irregularibus brunneis, dein olivaceis, demum arescendo albidis, linea nigricante elevata limitatis et circum circa purpureo-maculatis; peritheciis epiphyllis, paucis, minutis, nigricantibus, nitidulis; sporulis cylindricis obtusis, rectis vel flexuosis, 8-12-guttulatis, hyalinis.

Hab. in foliis *Tussilaginis Farfaræ*, T. fragrantis in Germania, Italia et Belgio.

404. **Septoria Mulgedii** Thüm. Pilzfl. Sibir. n. 637. — Peritheciis epi- 2957
phyllis, sparsis, mediis, subhemisphærico-lentiformibus, fuscis, se-

miimmersis in maculis magnis, irregularibus, arescendo-griseis, late fusco-griseo marginatis; sporulis cylindraceis, utrinque acutiusculis, arcuatis, uniseptatis, achrois, 26-28 \approx 4.

Hab. in foliis vivis Mulgedii sibirici pr. Minussinsk Sibiriae asiaticæ.

405. **Septoria Tanaceti** Niessl Mähr. Kryptogamenflora II. p. 36. — 2958

Epiphylla; maculis indeterminatis, irregularibus sæpe confluentibus, fuscis; peritheciis minutissimis, innato-prominulis, apice conicis, atro-fuscis; cirris carneis; sporulis elongato-fusiformibus, rectis vel flexuosis, obtusis, 5-7-guttulatis.

Hab. in foliis languentibus Tanaceti vulgaris prope Gr. Niemtschitz Moraviæ.

406. **Septoria Eupatorii** Rob. et Desm. 21 Not. p. 6. — Maculis am- 2959

phigenis, parvis, numerosis, albido-exaridis, suborbiculatis, sæpe brunneo- vel purpureo-cinctis; peritheciis pallidis, minutissimis; cirris albis; sporulis filiformibus, parum curvatis, obsolete guttulatis, hyalinis, 25-35 \approx 1,5.

Hab. in foliis languidis Eupatorii cannabini in Gallia et Italia.

407. **Septoria Virgaureæ** Desm. Ann. Sc. nat. 1842, XVII. p. 109. 2960

Ascochyta Virgaureæ Lib. Exs. n. 55. — Epiphylla; maculis orbiculatis vel irregularibus, exaridis, albido brunneoque variegatis; peritheciis innatis, minutis, convexis, subnigris, ore orbiculari late apertis; cirris albis; sporulis filiformibus, curvulis, utrinque obtusiusculis, 80 \approx 1,5, obsolete guttulatis, continuis, hyalinis.

Hab. in foliis languidis Solidaginis Virgaureæ in Italia, Gallia, Britannia, Germania, Fennia.

408. **Septoria Solidaginis** Thüm. Fung. Am. trig. Sp. n. 13. — Pe- 2961

ritheciis hypophyllis, subgregariis vel solitariis, interdum etiam confluentibus, conico-globosis, prominentibus, elevatis, atris in macula minima, indeterminata, subpallida, in pagina superiore maculas, parvas, griseas, late purpureo-cinctas formantibus; sporulis fusiformibus, utrinque subacutatis, rectis, numerosis, medio uniseptatis, ad septa non constrictis, binucleatis, hyalinis, 15 \approx 4.

Hab. in foliis vivis Solidaginis puberulæ, socia *Coleosporii Solidaginis* Thüm., Aiken in Carolina austr.

409. **Septoria Pingræ** Speg. F. Argent. Pug. IV. n. 291. — Maculis 2962

amphigenis, elongato-suborbicularibus, determinatis, fusco- v. cinereo-albicantibus; peritheciis epiphyllis, centralibus lenticularibus, 80-90 μ . d., tenui-membranaceis, contextu parenchymatico, fuligineo;

ostiolo impresso pertusis; sporulis cylindraceis, rectis v. flexuosis, utrinque obtusiusculis, 45-55 = 1,5, pluriseptatis, hyalinis.

Hab. ad folia viva Baccharidis pingræ, San José de Flores Argentinæ.

410. **Septoria erigerontea** Peck 24 Rep. of the Bot. 1873, pag. 87 2963
(sub *S. Erigeronis*). — Maculis minutis, orbicularibus, distinctis, rarissime confluentibus, aridis, brunneo- vel nigro-marginatis; peritheciis minutis, nigris, superficialibus; sporulis filiformibus, simplicibus, 25 μ . longis.

Hab. in foliis Erigerontis annui, Greenbush in Amer. bor.

411. **Septoria Erigerontis** B. et C. North Amer. Fungi n. 437^{bis}. — 2964
Maculis rufulis margine elevato concolori; sporulis rectis, filiformibus, 38 μ . longis.

Hab. in foliis Erigerontis, Massachusset Amer. bor.

412. **Septoria Inulæ** Sacc. et Spegazz. Mich. I. p. 190. — Maculis 2665
variis arescendo brunneo-rufescentibus; peritheciis centralibus punctiformibus, 100-120 μ . diam., lenticularibus pertusis, laxiuscule fuligineo-contextis; sporulis bacillaribus, 30-50 = 3-4, subflexuosis, utrinque rotundatis, obsolete 1-septatis, hyalinis.

Hab. in foliis Inulæ salicinæ, Conegliano Italiæ borealis (SPEGGAZZINI).

413. **Septoria Nabali** B. et C. North Americ. Fungi n. 438^{bis}. — Ma- 2966
culis rufis, margine lato, plano, brunneo cinctis; sporulis tenuissimis, flexuosis, 32 μ . longis.

Hab. in foliis Nabali, New Hampshire Amer. bor.

414. **Septoria Wyethiæ** Harkn. F. Calif. p. 11. — Peritheciis am- 2967
phigenis, majorem folii partem occupantibus; sporulis linearibus, obscure septatis continuisve, 56 = 6-8.

Hab. in foliis viventibus Wyethiæ mollis, Sierra Nevada Californiæ.

415. **Septoria Saussureæ** Thüm. Pilzfl. Sibir. n. 633. — Peritheciis 2968
epiphyllis, dense gregariis, minutis, punctiformibus, emersis, nigris in maculis orbicularibus, arescendo griseolis, anguste fusco-marginatis; sporulis cylindricis, rectis vel leniter arcuatis, utrinque subobtusis, continuis sed obsolete nucleolatis, 30-40 = 4, hyalinis.

Hab. in foliis vivis Saussureæ glomeratæ in subsalsis pr. Minussinsk Sibiricæ asiaticæ.

416. **Septoria Bidentis** Sacc. Fungi Veneti V. p. 205. M. V. n. 311. 2969
— Maculis pallidis, rubro-cinctis, exaridis, vagis; peritheciis ge-

neris, paucis; sporulis vermicularibus, 30-35 \approx 1-1 $\frac{1}{2}$, indistincte septulatis, hyalinis.

Hab. in foliis languentibus *Bidentis tripartitæ* pr. Treviso et Parma Ital. bor. — An huc spectet *Depazea Bidentis* Lasch in Kl. Herb. M. n. 871, ignoro.

417. **Septoria Artemisiæ** Pass. F. Parm. Sept. n. 73. — Peritheciis 2970
parenchymati immersis, in maculis epiphyllis discoideis, fuscis tandem exaridis; sporulis filiformibus continuis, curvis, hyalinis 30-33 \approx 1 $\frac{1}{2}$.

Hab. in foliis *Artemisiæ vulgaris* pr. Parma Ital. bor.

418. **Septoria Arnicæ** Fuck. Symb. Myc. App. II. p. 36 (sub *Asco-* 2971
chyta e. p.). — Epiphylla; maculis fuscis; peritheciis depressis, atris, minutis; sporulis filiformibus, longissimis.

Hab. in foliis *Arnicæ montanæ*, St. Moritz Helvetiæ, sociâ *Phyllostictâ Arnicæ* Fuck.

419. **Septoria Doronici** Passer. F. Parm. Sept. n. 75. — Peritheciis 2972
punctiformibus, dense sparsis, epiphyllis, in maculis fuscis effusis confluentibus; sporulis tenuibus, rectis integris, hyalinis, 18-20 μ . longis.

Hab. in foliis *Doronici Pardalianches*, Collecchio pr. Parma Ital. bor.

- 420 **Septoria Ptarmicæ** Passer. F. Parm. Sept. n. 77. — Perithe- 2973
ciis punctiformibus fuscis in dentibus folii aridis sparsis; sporulis filiformibus, rectis, tenuissimis, brevibus, continuis, hyalinis, 20-25 \approx 0,7-1.

Hab. in foliis vivis v. subaridis *Achilleæ Ptarmicæ*, Parma Ital. bor.

421. **Septoria sordidula** (Lév.) Sacc. *Ascospora sordidula* Lév. Ann. 2974
Sc. nat. 1846, p. 277. — Peritheciis epiphyllis, innatis, erumpentibus confertis maculam atram suborbicularem sistentibus; ostioliis depressis albicantibus; sporulis albicantibus continuis, linearibus, utrinque obtusis.

Hab. in foliis *Aplotaxeos* in India orientali.

422. **Septoria Bellidis** Desm. et Rob. 21 Not. 1853, p. 6. — Macu- 2975
lis olivaceis, dein fulvo-subterreis, subaridis, irregularibus; peritheciis amphigenis, minutissimis, 50 μ . diam., gregariis v. sparsis, fusco-nigrescentibus, poro pertusis; sporulis elongatis, subrectis indistincte nucleatis, 35 μ . longis.

Hab. in foliis languescentibus *Bellidis* in Gallia.

423. **Septoria bellidicola** Desm. et Rob. Not. XXI. p. 7. Sacc. Mich. 2976

I. p. 182. — Maculis albis rufo-marginatis; peritheciis epiphyllis, sparsis, nigris, prominulis, demum depressis umbilicatis, poro pertusis; sporulis filiformibus obsolete septulatis, $80-100 \approx 2-2\frac{1}{2}$, hyalinis.

Hab. in pagina superiore foliorum Bellidis perennis, Conegliano Ital. bor. (SPEGAZZINI) et in Gallia (ROB.).

424. **Septoria socia** Passer. F. Parm. Sept. n. 74. — Peritheciis in 2977 maculis fuscis subrotundis vel irregularibus subaggregatis, punctiformibus. epiphyllis; sporulis tenuibus, breviusculis, continuis, obsolete nucleolatis, plerumque rectis, $25-30 \mu$. longis.

Hab. in foliis languidis Leucanthemi vulgaris, Collecchio Parma Italiæ bor.

425. **Septoria Leucanthemi** Sacc. et Speg. in Mich. I. p. 191. — 2978 Maculis subcircularibus sinuosisque, fuscescenti-ochraceis, denique areola centrali alba; peritheciis sparsis, punctiformibus, lenticularibus $200-300 \mu$. diam., latiuscule pertusis, contextu laxiuscule parenchymatico pallide fuligineo; sporulis filiformibus, curvulis flexuosisve, $100-130 \approx 4-5$, crassiuscule pluriguttulatis, obsolete septatis, hyalinis.

Hab. in foliis Leucanthemi vulgaris, Conegliano Ital. bor. (SPEGAZZINI), Coimbra Lusitaniæ (MOLLER).

426. **Septoria anaxæa** Sacc. Mich. I. p. 189. — Maculis vagis epi- 2979 phyllis ex ochraceo fuligineis, quandoque flavo-cinctis; peritheciis punctiformibus globoso-lenticularibus, $80-90 \mu$. diam., pertusis; sporulis bacillaribus, curvulis, utrinque obtusiusculis, $50-70 \approx 3\frac{1}{2}$, minute pluriguttulatis v. obsolete septatis, hyalinis.

Hab. in pag. sup. foliorum Senecionis præalti in silva Montello ad flumen Piave (Anaxum) Ital. bor.

427. **Septoria Senecionis** West. Bull. Ac. roy. belg. t. XIX. n. 9. — 2980 Maculis epiphyllis, rotundatis vel irregularibus griseo-nigris, centro albicantibus; peritheciis immersis, nigris; ostiolo poriformi; sporulis cylindricis, rectis vel flexuosis, utrinque attenuatis, $40 \approx 1,5$, obsolete 3-4-septatis, hyalinis.

Hab. in foliis Senecionis sarracenici, S. nemorensis, S. campestris, in Belgio, Italia, Germania et Sibiria asiatica.

428. **Septoria atro-purpurea** Peck. 33. Rep. St. Mus. 25. — Maculis 2981 suborbicularibus, non vel confluentibus, sæpe purpureo-brunneis, ad centrum areola minuta pallida, arescente instructis, infra pallide purpureis, centro ochraceo-brunneolo; peritheciis paucis; cirris albis; sporulis filiformibus, rectis vel flexuosis, $50-75 \mu$. longis.

Hab. in foliis vivis *Asteris macrophylli*, Jamesville Americæ borealis.

429. **Septoria Galinsogæ** Speg. F. Arg. Pug. IV. n. 287. — Maculis 2982 subdeterminatis, majusculis, sæpe totum folium occupantibus, fusciscentibus, centro pallescentibus v. albicantibus, peritheciis; peritheciis epiphyllis densiuscule gregariis innato-prominulis atris, lenticularibus 80-90 μ . diam., tenuissime membranaceis, contextu parenchymatico, olivaceo, ostiolo latiusculo 20-25 μ . diam., per-tusis; sporulis filiformibus, rectiusculis, subindistincte pluriseptu-latis, 40-60 \approx 1, hyalinis.

Hab. in foliis languidis *Galinsogæ parvifloræ* in hortis, Boca del Riachuelo Argentine.

430. **Septoria Cardunculi** Pass. in Myc. univ. n. 594, Flora 1877, n. 13. 2983 — Peritheciis punctiformibus in maculis exaridis, sparsis, membranaceis, cellulis parvis, irregularibus, fuscis contextis; sporulis filiformibus, arcuatis, creberrimis, hyalinis, 50 \approx 1,7.

Hab. ad folia languida *Cynaræ Cardunculi*, Vigheffio pr. Parma Ital. bor. (PASSERINI).

431. **Septoria Scolymi** Passer. Hedw. 1881. p. 146. — Peritheciis 2984 per folium exaridum sparsis, punctiformibus, atris, utrinque, sed præsertim subtus prominulis; sporulis tenuibus rectis, integris, obscure nucleolatis 30-40 μ . longis.

Hab. in foliis languidis *Scolymi hispanici*, Vigheffio pr. Parma Italiæ bor.

432. **Septoria Silybi** Passer. F. Parm. Sept. n. 79. — Maculis sub- 2985 orbicularibus, griseo-fuscis, nitidis; peritheciis in maculis sparsis, parenchymati immersis, utrinque punctiformi-protuberantibus, nigris, subtus ostiolo acuto erumpentibus; sporulis filiformibus, rectis vel flexuosis continuis, 65-70 μ . longis.

Hab. in foliis languidis *Silybi Mariani*, in hortis Parma Ital. bor. — *Septoriæ Cirsii* affinis.

433. **Septoria Cirsii** Niessl Mahr. Cryptogamenflora II. p. 36, Sacc. 2986 Mich. II. p. 188, Pass. F. Parm. Sept. n. 76. — Epiphylla; maculis magnis, aridis, brunneo-pallescentibus, sæpe subcircularibus indeterminatis vel linea brunnea cinctis, nitidulis; peritheciis gregariis, innato-prominulis, minutis, hemisphæricis, papillatis; sporulis cylindricis, subflexuosis, utrinque obtusis, fere truncatis, 8-12-septatis, 40-80 \approx 1,5-2.

Hab. in foliis emarcescentibus *Cirsii arvensis* pr. Rossitz Moraviæ, Parma et Treviso Italiæ. — Sporularum longitudo ad-

modum varia, a 40 ad 100 μ . diam. et ultra. In maculis griseo-fuscis occurrunt quoque maculæ discoideæ, minutæ, exaridæ, candidæ, perithecia subsolitaria, sporulis longioribus foeta, foventes. Pass. l. c.

434. **Septoria? Serratulæ** (Wallr.) Sacc. *Helicobolus Serratulæ* 2987

Wallr. Fl. Crypt. n. 3645. — Peritheciis membranaceis nigris synphlæodeis, primum conicis clausis, dein vertice truncato aperto emergentibus stillaque sporularum pallida coronatis.

Hab. in foliis languidis Serratulæ (Cirsii) arvensis passim in Germania.

435. **Septoria Lapparum** Sacc. Mich. I. p. 184. — Maculis epiphyll- 2988

lis e circulari angulosis, minutis, initio fuligineis, tandem candidantibus; peritheciis sparsis, lenticularibus, 80-100 μ . diam., punctiformibus, pertusis; sporulis bacillaribus, curvatis, 25 \approx 1-1 $\frac{1}{4}$, continuis, hyalinis.

Hab. in foliis Lappæ minoris, Selva Ital. bor.

436. **Septoria Centaureæ** (Roum.) Sacc. *Phyllosticta Centaureæ* 2989

Roum. F. Gall. n. 1633. — Maculis minutis, variis, amphigenis, olivaceis dein pallentibus, vix marginatis; peritheciis punctiformibus; sporulis bacillaribus, curvulis, 2-4-septulatis, non constrictis, hyalinis, 55-60 \approx 1,5-2, utrinque obtusiusculis.

Hab. in foliis languidis Centaureæ nigræ, Toulouse Galliæ.

437. **Septoria Intybi** Passer. F. Parm. Sept. n. 81. — Peritheciis mi- 2990

nutissimis, sparsis, tectis, atris; sporulis tenuibus integris, obscure nucleolatis, 25-30 μ . longis.

Hab. in ramulis siccis Cichorii Intybi, Vigheffio pr. Parma Italiæ bor.

438. **Septoria Endiviæ** Thüm. Contr. Funghi Litor. n. 345. — Pe- 2991

ritheciis hypophyllis, gregariis, minutis, punctiformibus, obscure fuscis, globulosis, sine macula sed in folii parte arida decolorata, sordide fuscidula; sporulis bacillaribus vel filiformibus, rectis vel curvatis, utrinque obtusatis, continuis vel obscure uniseptatis, hyalinis, 24-30 \approx 2.

Hab. in foliis languidis Cichorii Endiviæ, Rubbia prope Gorizia.

439. **Septoria Lactuæ** Pass. Atti Soc. Crittog. Ital. vol. II. pag. 35 2992

(1879). — Maculis ferrugineis, irregularibus, angulosis, totam folii laminam mox adurentibus; peritheciis minimis, punctiformibus sparsis, 90 μ . diam.; sporulis filiformibus, integris rectis vel curvulis, hyalinis, 25-30 \approx 1,7-2.

- Hab.* in foliis vivis languidisve *Lactucæ sativæ*, Parma, Belluno in Italia, Saintes in Gallia. — Non videtur diversa *Septoria Lactucæ* Peck Bot. Gaz. Jun. 1879, pag. 170. Maculis indefinitis, pallidis vel brunneis; peritheciis minutis, sparsis, nigris; sporulis plus minusve curvatis, 20-38 μ . longis. — In foliis vivis *Lactucæ sativæ*, Illinois Amer. bor.
440. **Septoria lactucicola** Ell. et Mart. Amer. Nat. 1882, p. 1002. 2993
— Peritheciis punctiformibus, minutis, sparsis, brunneis, in maculis concentrice rugosis, 12-30 mill. diam.; sporulis filiformibus, saepe curvatis, 25-30 μ . longis.
Hab. in foliis vivis *Lactucæ canadensis*, Newfield N. J. Americæ borealis.
441. **Septoria Ætheorrhizæ** Thüm. Contr. Myc. Lusit. n. 610. — Peritheciis amphigenis, numerosis, parvis, dense gregariis, punctiformibus, globulosis, immersis, atris in maculis irregularibus arescendo ochraceo-fuscis, indeterminatis; sporulis bacillaribus, subrectis vel leniter arcuatis, utrinque obtusis, obsolete uniseptatis, hyalinis, 24-26 \times 1,5-2.
Hab. ad folia viva *Ætheorrhizæ bulbosæ*, St. Clara pr. Coimbra Lusitaniæ (MOLLER).
442. **Septoria sonchifolia** Cooke Rav. Fung. Amer. n. 31. Hedw. 1878, 2995
pag. 38. — Maculis orbicularibus vel elongatis, brunneis; sporulis linearibus, rectis vel curvulis, hyalinis, 20 μ . longis.
Hab. in foliis *Sonchi asperi* in Carolina austr. Amer. bor. (RAVENEL).
443. **Septoria sonchina** Thüm. Pilzfl. Sibir. n. 634. — Peritheciis epiphyllis, sparsis vel subsolitariis, magnis, semiimmersis, punctiformi-sublenticularibus, atro-fuscis, hemisphæricis in maculis irregulari-orbicularibus, arescendo ochraceis, magnis, epiphyllis, fusco-violaceis, marginatis; sporulis cylindræo-bacillaribus, arcuatulis, utrinque acutiusculis, obsolete tri-quadriseptatis, numerosis, achrois, 28-34 \times 1,5-2.
Hab. in foliis vivis *Sonchi oleracei*, Minussinsk Sibiriaë. — A *Septoria Sonchi* Sacc. maculis et sporulis toto cælo diversa.
444. **Septoria Sonchi** Sacc. Mich. I. p. 183. — Maculis oblongis viridi-griseis, obsolete, cladogenis, rarius hypo- et epiphyllis; peritheciis remotiuscule gregariis, lenticularibus, innato-prominulis, 110 μ . diam., late pertusis; contextu laxiuscule cellulari, subochraceo; sporulis cylindræo-bacillaribus, sæpe flexuosis, utrinque obtusiusculis, 20-24 \times 1½-2, minute pluriguttulatis, hyalinis.

Hab. in foliis caulibusque nondum emortuis Sonchi oleracei, Conegliano Ital. bor. (SPEGAZZINI). — A *Septoria nebulosa* var. *minore* Desm. XXI. Not. p. 6 differt præcipue peritheciis majoribus, remotioribus, melleis nec nigris.

445. **Septoria Mougeoti** Sacc. et Roum. Reliq. Libert. IV. n. 151. — 2998

Maculis amplis flavicantibus centro subolivaceis; peritheciis punctiformi-lenticularibus 80 μ . diam.; sporulis filiformibus, 35-40 \approx 1, hyalinis, eguttatis, continuis.

Hab. in foliis Hieraciorum, Malmedy in Arduennis.

446. **Septoria scabiosicola** Desm. in Ann. Sc. nat. 1853, XX. p. 96. 2999

Sphaeria lichenoides vel *scabiosicola* DC. *Ascochyta Scabiosæ* Rabenh. — Maculis orbicularibus fusco-purpureis, pallido-cinctis, dein centro albidis, scariosis; peritheciis epiphyllis, minutis, nigris, paucis (1-3); sporulis filiformibus, rectiusculis, 40-50 \approx 0,7-1 $\frac{1}{2}$ parce et obsolete septatis v. 5-6-guttulatis, hyalinis.

Hab. in foliis Scabiosæ arvensis, Sc. atropurpureæ, Sc. ochroleucæ et Succisæ in Gallia, Britannia, Italia, Lusitania, Belgio, Sibiria asiat.

447. **Septoria succisicola** Sacc. Mich. I. p. 191. — Maculis indeter- 3000

minatis obsoletis; peritheciis sparsis epiphyllis, punctiformibus, atris; sporulis filiformibus, 20 \approx $\frac{1}{2}$, minute 5-6-guttulatis, hyalinis.

Hab. in pag. sup. foliorum nondum emortuorum Succisæ pratensis in silva Montello Ital. bor. — A *Sept. scabiosicola* f. *Succisæ* toto cælo diversa.

448. **Septoria fullonum** Sacc. *Septoria Dipsaci* Schiedermayer Hedw. 3001

1878, p. 174. — Peritheciis minutissimis 120 \approx 80, gregariis, ovato-globosis, rugoso-reticulatis, fusco-atris; maculis aridis sordide-albescentibus immersis, ostiolo prominulo; sporulis longissimis, 60-80 \approx 2, curvatis, filiformibus, hyalinis.

Hab. in pagina utraque foliorum Dipsaci Fullonum in Austria.

449. **Septoria Dipsaci** West. Bull. ac. roy. belg. II. Ser. t. XII. n. 7. 3002

— Maculis epiphyllis, initio brunneis, dein albis et eburneis, minutis, rotundatis vel angulosis, nervis foliorum limitatis, sparsis vel confluentibus; peritheciis nigris, minutissimis, sparsis; sporulis cylindricis, rectis, 60 \approx 1,2.

Hab. in foliis Dipsaci azurei in horto bot. Louvain in Belgio (E. MARTENS), et Dipsaci fullonum, Plezzo in agro gori-tiensi (BOLLE). — Forte hæc forma postrema ad *Septoriam fullonum* pertinet.

450. **Septoria Xanthii** Desm. 14 Not. 1847, pag. 25. — Epiphylla; 3003
maculis nullis vel sordide flavo-griseis, indeterminatis; peritheciis
exilissimis, numerosis, subgregariis, nigris, prominulis, globosis
dein collapsis, poro pertusis; cirris tenuissimis albis; sporulis ba-
cillari-linearibus, arcuatis, subacutis, $40 \approx 2$, 8-10-guttulatis, hya-
linis.

Hab. in foliis languidis Xanthii strumarii pr. Treviso et
Parma in Italia et in Gallia.

451. **Septoria inconspicua** B. et C. North Amer. Fungi n. 439^{bis}. — 3004
Peritheciis minimis in macula albida indefinita insidentibus; spo-
rulis rectis tenuibus, 20-28 \approx 1,5, continuis.

Hab. in foliis Plantaginis lanceolatae in Carolina sup.
et in horto botanico Parma Ital. bor.

452. **Septoria Plantaginis** (Ces.) Sacc. *Ascochyta Plantaginis* Ces. 3005
in Kl. Herb. myc. p. 1742. — Maculis griseis subbullatis, primi-
tus orbicularibus, limitatis; peritheciis minutissimis subepidermi-
cis; sporulis fasciculato-erumpentibus filiformi-clavatis, hyalinis,
continuis (?), crustulam canam efficientibus.

Hab. in foliis Plantaginis lanceolatae gelu tactis in Ita-
lia bor. et in Rhenogovia.

453. **Septoria plantaginea** Pass. Fungh. Parm. Sept. n. 105. — Pe- 3006
ritheciis minimis immersis, in maculis e livido exaridis vix ostio-
lo punctiformi erumpentibus; sporulis filiformi-clavatis rectis aut
vix arcuatis, pluriseptatis, hyalinis, 55 \approx 2,5.

Hab. in foliis languidis Plantaginis lanceolatae, Langhi-
rano, Parma in Italia. — β . **Plant. majoris** Sacc. Mich. II. p. 167.
A typo differt sporulis brevioribus et angustioribus, nempe 30 \approx
1-1 $\frac{1}{4}$, guttulatis, hyalinis; peritheciis lenticularibus, 60-70 μ . diam.
— In foliis Plantaginis majoris ad utramque paginam, Ca-
vaso Ital. bor. (A. Rossi).

454. **Septoria pamparum** Speg. F. Arg. Pug. III n. 109. — Maculis 2007
epiphyllis, latis $\frac{1}{2}$ -1 $\frac{1}{2}$ cent., albo-pallescens, sæpe confluenti-
bus, indeterminatis; peritheciis centralibus, sparsis, minutis 90-
100 μ . diam., lenticularibus, ostiolo impresso pertusis, membrana-
ceis, contextu parenchymatico, olivaceo; sporulis bacillari-fusoi-
deis, utrinque obtusiusculis, medio non v. 1-septatis, hyalinis, 12-
15 \approx 1-1,5.

Hab. in foliis vivis Pircuniæ dioicæ en el Bagnado de Flo-
res Argentinae.

455. **Septoria polygonina** Thüm. Pilzfl. Sibir. n. 621. — Peritheciis 3008

epiphyllis, paucis, minimis, lenticulari-applanatis, emersis, fuscis in centro maculis orbiculatis, ochroleucis, late violaceo-marginatis; sporulis numerosissimis, anguste cylindræis, leniter curvatis, utrinque acutatis, continuis v. obscure biseptatis, hyalinis, 36-48 \approx 1,5.

Hab. in foliis vivis Polygoni alpini in silvis subalpinis pr. fl. Baraksan Sibiriae asiat.

456. **Septoria Polygonorum** Desm. Ann. Sc. nat. 1842, XVII. p. 108. 3009

— Epiphylla; maculis parvis, rotundatis, fulvis, in ambitu purpureis; peritheciis innatis, minutissimis, fusco-pallidis, ore orbiculari late apertis, dein concavis; sporulis filiformibus, leniter flexuosis, 4-5-guttulatis, hyalinis, 25 \approx 1.

Hab. in foliis Polygoni Bistortæ, P. amphibii, P. Persicariæ, P. nodosæ in Italia, Belgio, Britannia, Lusitania, Amer. bor., Sibiria asiat. — β . **Sieboldii**: maculis expansis, griseis; peritheciis paullo majoribus; sporulis iisdem. — In foliis Polygoni Sieboldii culti in Italia bor.

457. **Septoria Rhapontici** Thüm. Pilzfl. Sibir. n. 813. — Peritheciis 3010

subgregariis, epiphyllis, primo tectis postremo liberatis, hemisphæricis, nigris, vix ostiolatis in maculis arescendo ochraceo-griseolis, indeterminatis, late sed indistincte purpureo-coccineo-marginatis; sporulis fusiformibus, lunulatis, utrinque acutatis, numerosis, continuis, enucleatis, hyalinis, 16-18 \approx 2,5-3.

Hab. in foliis vivis Rhei Rhapontici in monte Borus Sibiriae asiaticæ.

458. **Septoria Menispermii** Thüm. Pilzfl. Sibir. n. 818. — Peritheciis 3011

epiphyllis, gregariis, convexo-lenticularibus, mediis, vix prominulis, fuscis in maculis exaridis, pallide ochraceis, griseo-fusco-marginatis; sporulis bacillaribus, utrinque truncatis, arcuatulis, continuis vel obsolete uniseptatis, hyalinis, 40 \approx 1,5.

Hab. in foliis vivis Menispermii dahurici pr. Maidaschi Sibiriae asiaticæ.

459. **Septoria Spinaciæ** West. in Kickx Fl. crypt. Flandr. I. p. 425. — 3012

Peritheciis epiphyllis, minutissimis, brunneis, numerosis in maculis luteis, rotundatis sparsis; sporulis linearibus, utrinque attenuatis, curvatis, 4-8-nucleolatis.

Hab. in foliis languidis Spinaciæ oleraceæ in Belgio. — Dubito an huc pertineat *Sphæria* (Depazea) *Spinaciæ* Fr. S. M. II. p. 532: maculis difformibus, indeterminatis, cinereo-nigris; peritheciis sparsis, minimis, punctiformibus, nigris. In foliis Spinaciæ in Germania.

460. **Septoria Betæ** West. Exs. n. 296 et in Kickx Fl. crypt. Fl. I. 3013
p. 425. — Maculis brunneo-pallidis, centro albicantibus, brunneo-fusco-cinctis; peritheciis epiphyllis, nigris, minutis, prominulis; sporulis cylindricis rectis vel curvatis, plurinucleatis; cirris albidis.

Hab. in foliis Betæ cultæ in Belgio.

461. **Septoria Atriplicis** (West.) Fuck. Symb. p. 390, Sacc. Mich. I. 3014
p. 190. *Phyllosticta Atriplicis* West. Bull. Ac. Brux. 1851, p. 397, Desm. Exs. III. n. 683. Cooke F. B. II. n. 41. — Maculis e viridi sordide ochraceis vel albidis; peritheciis sparsis amphigenis, globoso-lenticularibus, 110 μ . diam., pertusis; sporulis cylindræis vel subfusoidis, 25-35 = 4½-5, utrinque obtusiusculis, rectis vel leniter curvulis, 2-5-truncato-nucleatis vel spurie 1-3-5-septatis, hyalinis.

Hab. in foliis Atriplicis patulæ et Chenopodii muralis etc. in Germania, Gallia, Italia, Belgio, Sibiria, Amer. merid. — In forma Chenopodii maculæ initio minimæ, obsoletæ, tandem latæ et distincte ochraceæ fiunt; sporulæ 20-25 = 3-3½ tantum.

462. **Septoria Chenopodii** West. in Bull. Ac. d. sc. Bruxelles 1851, 3015
p. 396. — Maculis albo-viridibus dein luteis, luteo-olivaceo vel brunneo-cinctis; peritheciis sparsis, epiphyllis, numerosis, minutis, nigris; sporulis cylindricis rectis vel curvulis, utrinque obtusis, 6-10-guttulatis, hyalinis.

Hab. in foliis vivis Chenopodii albi, C. muralis, viridis in Italia, Lusitania, Belgio, Germania.

463. **Septoria Iresines** Speg. F. Argent. Pug. II. n. 106. — Maculis 3016
amphigenis orbicularibus v. ellipticis, determinatis, 2-10 mill. lat., zona fulvescente cinctis, candidis, subhyalinis; peritheciis amphigenis, centralibus, densiuscule gregariis, perparvulis 60-70 μ . d., parenchymati innatis, lenticularibus, ostiolo minuto, impresso pertusis, tenui-membranaceis, contextu parenchymatico-olivaceo; sporulis filiformibus, rectis v. flexuosis, continuis v. indistincte septulatis granuloso-farctis, hyalinis, 40-50 = 1-1,5.

Hab. in foliis languidis Iresines celosioïdis in herbosis de la Boca del Riachuelo Argentinæ.

464. **Septoria rarissima** Speg. F. Argent. Pug. II. n. 108. — Maculis 3017
parvulis ½-1 mill. diam., candidis, areola latissima, fulvescente ornatis, epiphyllis; peritheciis perpauca, atris, minutis 80-90 μ . d., lenticularibus ostiolo impresso pertusis, tenui-membranaceis, contextu parenchymatico, olivaceo-fuligineo; sporulis cylindræis,

rectis, utrinque obtusiusculis, continuis, granuloso-farctis, 30-35 \approx 1-1,5, hyalinis.

Hab. in foliis languidis Scleropi amaranthoidis prope Buenos Aires Argentinæ.

465. **Septoria Urticæ** Desm. et Rob. 14 Not. 1847, p. 24. — Maculis amphigenis, ochraceis, orbiculatis vel irregularibus; peritheciis epiphyllis, minutissimis, numerosis, fuscis, poro pertusis; sporulis elongatis, tenuissimis, curvatis vel flexuosis, obsolete guttulatatis, 40-50 \approx 2, hyalinis.

3018
La Pila
vulgata
macule
civ. spor.
oblongæ

Hab. in foliis Urticæ dioicæ et U. urentis in Gallia, Belgio, Italia, Britannia, Austria. *Argentina -*

466. **Septoria Cannabis** (Lasch) Sacc. *Septoria cannabina* West. 3019
Bull. ac. roy. belg. II. ser. t. XII. n. 7. Sacc. Mich. II. p. 279, *Ascochyta Cannabis* Lasch in Kl. II. M. n. 1059 (1846). — Maculis variis arescendo sordide ochraceis; peritheciis sæpe epiphyllis, dense gregariis, innatis, globoso-depressis, poro amplo pertusis, 90 μ . diam.; sporulis bacillari-filiformibus, utrinque acutiusculis, 45-55 \approx 2-2 $\frac{1}{4}$, rectis v. curvulis, obsolete 3-septatis, hyalinis.

Hab. in foliis nondum emortuis Cannabis sativæ pr. Padova, Parma, Plezzo Ital. bor. et in Belgio.

467. **Septoria Humuli** West. in Kickx Fl. cr. Fl. I. p. 433. — Peritheciis lentiformibus, 50-60 μ . diam., epiphyllis sparsis in centro macularum irregularium, parvarum pallide fuliginosarum; sporulis filiformibus, leniter flexuosis, 25-35 \approx 1, utrinque obtusiusculis, eguttulatis, hyalinis.

Hab. in foliis languidis Humuli Lupuli in Italia, Belgio, Sibiria asiatica.

468. **Septoria Mercurialis** West. Exs. n. 488. Kickx Fl. cr. Fl. I. 3021
p. 425. — Peritheciis amphigenis, minutis, nigris, in maculis irregularibus initio cinereis dein pallide brunneis fusco-cinctis sparsis; sporulis cylindricis, utrinque truncatis, 3-6-nucleatis.

Hab. in foliis Mercurialis annuæ in Belgio.

469. **Septoria Pileæ** Thüm. in Torr. Bot. Cl. Oct. 1879 et Peck 34 3022
Rep. St. Mus. 45. — Maculis minutis, sparsis, angulosis vel suborbicularibus, definitis arescendo albidis late fusco-olivaceo-cinctis; peritheciis paucis, epiphyllis, minutis, brunneis vel nigro-brunneis, globoso-depressis; sporulis filiformibus, hyalinis, 22-28 \approx 1,5-2, lenissime curvis, continuis.

Hab. in foliis vivis Pileæ pumilæ, Sandlake et St. Louis Amer. bor. — Species Peckiana a Thümeniana non differre videtur.

470. **Septoria Aristolochiæ** Sacc. Mich. I. p. 181. — Maculis nullis; 3023
peritheciis hypophyllis, gregariis, punctiformibus, lenticularibus,
40 μ . diam., anguste pertusis; sporulis bacillari-clavulatis, curvu-
lis, 15-20 \approx 1 $\frac{3}{4}$ -2, eguttulatis, hyalinis.

Hab. in pag. inferiore foliorum *Aristolochiæ Clematidis*,
Conegliano Italiæ bor. (SPEGAZZINI).

471. **Septoria Asari** Sacc. Mich. I. p. 181. — Maculis epiphyllis e 3024
rotundo angulosis arescendo dealbatis, nigro-cinctis; peritheciis
parcis punctiformibus atris; sporulis cylindraceo-fusoideis, 14 \approx 1 $\frac{3}{4}$,
lenissime curvis, continuis v. 1-septatis, hyalinis.

Hab. in foliis *Asari europæi* in silva Montello Italiæ bor.
— Sporulis breviusculis a genere paululum desciscit.

B) *Carpogeneæ*.

472. **Septoria Catalpæ** Sacc. Mich. I. p. 179. — Maculis nullis v. ob- 3025
soletis; peritheciis punctiformibus, hinc inde maculiformiter den-
se congregatis, lenticularibus, 60-70 μ . diam., atris, pertusis; spo-
rulis bacillaribus, 10-15 \approx 1 $\frac{1}{2}$, curvulis, utrinque obtusiusculis, con-
tinuis, eguttulatis, hyalinis.

Hab. in capsulis *Catalpæ syringifoliæ*, Conegliano Ital.
bor. (SPEGAZZINI).

473. **Septoria Scopariæ** West. V. Not. Hypox. Belg. p. 35. — Ma- 3026
culis minutis, subcircularibus, 3-4 mill. latis, brunneo-pallidis, ele-
vato-atro-marginatis; peritheciis brunneis, sparsis, parcis; sporu-
lis cylindraceis, utrinque attenuatis, 60-80 μ . longis, 10-13-gut-
tulato-septulatis, hyalinis.

Hab. in leguminibus subviviis *Spartii scoparii* in Belgio.

474. **Septoria fructigena** B. et C. North Americ. Fungi n. 443^{bis}. 3027
— Peritheciis sparsis minimis; sporulis filiformibus sursum hama-
tis, 35 μ . longis.

Hab. in fructibus *Passifloræ* in Carolina inf. Amer. bor.

475. **Septoria Ralfsii** B. et Br. Ann. N. H. n. 745, t. 15, f. 6. — 3028
Subcutanea, initio epidermide elevata tecta; centro pustularum al-
bo; sporulis rectis, multi-(sæpius 6-)nucleatis, 30 μ . longis.

Hab. in fructibus putridis *Piri* in Britannia. — Maculas atras
irregulares format, pustulis albo-punctatis conspersas.

476. **Septoria oleaginea** Thüm. Pilze d. Celb. p. 20. — Peritheciis 3029
sparsis majusculis, semimmersis, atris, hemisphæricis, in macula
irregulari pallide ochraceo-fusca, arescente, prominula sitis; spo-
rulis rectis v. subcurvis, acicularibus, utrinque vix rotundatis, ob-

solete 2-3-septulatis, ad septa non constrictis, subinde nucleolatis, 10-15 \approx 1,5.

Hab. in fructibus Oleæ europææ in Austria.

477. **Septoria epicarpii** Thüm. in Fungi pomicoli p. 121, Symb. myc. 3030

Austr. III. — Peritheciis gregariis vel solitariis, mediis, sine ordine dispositis, punctiformi-orbiculatis, minime elevatis vel subplanis, subimmersis, nitido-atris in maculis determinatis, primo orbiculatis demum valde irregularibus, fusco-griseis, anguste nigro-marginatis; sporulis fusoideo-cylindricis, utrinque subobtusis-acutiusculis, subrectis vel arcuatis, interdum lunulatis, obsolete bi-triseptatis, plurinucleatis, hyalinis, 22 \approx 4-5.

Hab. in epicarpio vivo Juglandis regiæ, Klosterneuburg in Austr. inf., et Parma in Ital. bor.

478. **Septoria nigro-maculans** Thüm. Symb. myc. Austr. III. n. 66. 3031

— Maculis maximis, irregularibus, sed plus minusve orbiculatis, fusco-nigricantibus non limitatis et marginatis, sæpe confluentibus; peritheciis dense gregariis, interdum confluentibus, lenticularibus, pro ratione maximis, erumpentibus, subnitidis; sporulis cylindraceis, minime curvulatis, utrinque acutato-subrotundatis, obsolete uniseptatis, enucleatis, achrois, 8-12 \approx 2,5-3.

Hab. in epicarpio fructuum maturorum Juglandis regiæ, Klosterneuburg in Austria inf.

479. **Septoria conigena** Sacc. et Roum. Sacc. Mich. II. p. 625. — Pe- 3032

ritheciis gregariis erumpentibus, globoso-deplanatis, astomis, 140-150 μ . diam., contextu minute parenchymatico, olivaceo-fusco; sporulis bacillari-acicularibus, 50-75 \approx 1 $\frac{3}{4}$ -2 $\frac{1}{2}$, pluriguttulatis, hyalinis, e strato prolifero lutescente per basidia brevissima oriundis.

Hab. in squamis conorum Abietis excelsæ in Arduennis (LIBERT).

480. **Septoria vestita** B. et C. North Americ. Fungi n. 449. — Pe- 3033

ritheciis prominulis applanatis margine furfuraceo vestitis; sporulis brevioribus curvis, 12 μ . longis.

Hab. in fructibus Cucurbitæ in Pennsylvania, Amer. bor.

481. **Septoria leguminum** Desm. 10 Not. p. 10 Kickx Fl. Fland. p. 3034

424, non *S. leguminum* β . *Pisorum* Kickx ibid. nec *Ascochyta Pisi* Lib. — Peritheciis punctiformibus, globosis, atris, superficialibus, in area fusca indeterminata, sparsis; sporulis bacillaribus, rectis vel vix curvis, apicibus obtusis, integris vel obscurissime septulatis, nubiloso-hyalinis, 30-45 \approx 3,7-4.

Hab. in leguminibus Phaseoli vulgaris et Pisi sativi in Gallia, Italia, Belgio.

II. In Monocotyledoneis ¹⁾.

482. **Septoria Passerinii** Sacc. *Sept. murina* Passer. F. Parm. Sept. 3035
n. 149, nec Thüm. — Peritheciis longitrorsum seriatis vel sparsis, punctiformibus, atris; sporulis filiformibus rectis vel vix curvis, continuis, hyalinis, 30-45 \approx 2.
Hab. in foliis Hordei murini et in spicis Lolii perennis, Vigheffio pr. Parma Italiæ bor.
483. **Septoria arctica** B. et C. F. N. Pac. Exp. n. 125. — Peritheciis globosis immersis, siccis collabentibus; sporulis sursum attenuatis linearibus 3-7-septatis. 3036
Hab. in culmis Dupontiae Fischeri in insula Orukampchatne maris Pacifici.
484. **Septoria simplex** (Schröeter) Sacc. *Hendersonia simplex* Schrö- 3037
ter, Ein Beitrag zur Kenntniss der nordischen Pilze p. 16. — Peritheciis gregariis subrotundis, 0,1 mill. circ. diam., depressis, nigris; sporulis bacillaribus, 17-26 \approx 2,2-3, utrinque obtusis, continuis, rectis curvulisve, fuscidulo-chlorinis.
Hab. in culmis emortuis Melicæ nutantis in Lapponia, Suecia.
485. **Septoria Melicæ** Passer. F. Parm. Sept. n. 140. — Maculis rufis oblongis tandem exaridis; peritheciis tectis, sparsis, punctiformibus; sporulis bacillaribus, rectis vel curvis, apicibus rotundatis vel subinde attenuatis, 3-septatis, hyalinis, 28 \approx 3. 3038
Hab. in foliis Melicæ unifloræ, Collecchio pr. Parma Italiæ borealis.
486. **Septoria Kœleriae** Cocc. et Mor. Enumer. Funghi prov. Bologna II. n. 176, fig. II. — Peritheciis 40-45 μ . diam., in foliis et vaginis foliorum insidentibus, in maculis elongatis albido-lutescentibus, numerosissimis; sporulis hyalinis, filiformibus, continuis, luteolis, nunc recurvis nunc undulatis, in apicibus rotundatis, 46-54 \approx 1,5. 3039
Hab. in foliis vaginisque Kœleriae phleoidis pr. Bologna Italiæ borealis (Cocconi).
487. **Septoria gracilis** Passer. F. Parm. Sept. n. 148. — Maculis li- 3040

¹⁾ Species sequentes, in Monocotyledoneis obviæ, nempe: *Septoria arctica*, *Epigejcs. donacina*, *littoralis*, *ophioides*, *megaspora*, *sarmenticia*, ob perithecia majuscula, caulicola et non maculicola ad *Rhabdosporam* essent ducendæ; verum ne seponerem ab aliis affnibus sed adhuc dubiis, eas ad interim hoc loco retinui.

nearibus fuscis, areola flavida mox circumdatis; peritheciis minutis, tectis, atris; sporulis tenuibus brevibus, rectis vel vix arcuatis, integris, hyalinis, 10-12 \approx 0,7.

Hab. in foliis Agropyri repentis pr. Parmam Italiæ bor.

488. **Septoria glumarum** Passer. F. Parm. Sept. n. 147. — Maculis 3041
nullis; peritheciis punctiformibus sparsis epidermide tectis, atris; sporulis bacillaribus, rectis vel curvulis triseptatis, hyalinis, 20-25 \approx 3, loculis nucleolatis.

Hab. in glumis Tritici vulgaris in agro parmensi Italiæ borealis.

489. **Septoria Tritici** Desm. IX. Not. (1842) pag. 17. — Amphigena; 3042
maculis sublinearibus longitudinalibus, albidis, atropurpureo-marginatis; peritheciis innatis, minutissimis, nigris, ovatis rotundatisve, ore orbiculari apertis; cirris carneis; sporulis cylindraceuto-fusoideis, leniter curvis, 60-65 \approx 3 $\frac{1}{2}$ -5, curvulis, 3-5-septatis, hyalinis.

Hab. in foliis languescentibus Triticorum cultorum, Brachypodii, Festucæ, Glyceriæ fluitantis in Gallia, Italia, Britannia.

490. **Septoria Curtisiana** Sacc. *Septoria Tritici* B. et Curtis, North 3043
Americ. Fungi n. 441^{bis}, nec Desm. — Caulicola in macula pallida insidens; peritheciis hysteriiformibus; sporulis tenuissimis.

Hab. in culmis Triticorum in Pennsylvania (MICHENER).

491. **Septoria nodorum** Berk. Gard. Chron. 1845, p. 601. — Macu- 3044
lis pallide ochraceis, fusco-cinctis, depressis vel confluentibus; peritheciis prominulis, initio rubescentibus dein atris; sporulis oblongis, elongatis, leniter curvatis, vel irregularibus.

Hab. in nodis culmi Triticorum ante fructuum maturitatem in Britannia.

492. **Septoria Leersia** Passer. F. Parm. Sept. n. 136. — Maculis 3045
nullis; peritheciis superficialibus, sparsis, punctiformibus, atris; sporulis cylindrico-fusififormibus, subinde clavulatis, rectis vel leniter arcuatis, integris, crebre nucleolatis, hyalinis, 25 \approx 2,5.

Hab. in foliis siccis Leersia oryzoidis, Gajone pr. Parmam Italiæ borealis.

493. **Septoria macropoda** Passer. F. Parm. Sept. n. 141, *S. graminum* f. *Sclerochloæ duræ* Thüm. Mycoth. univ. n. 593, Rabh. 3046
Fung. eur. n. 2255. — Maculis nullis; peritheciis undique crebre sparsis, lenticularibus atris; sporulis filiformibus tenuissimis rectis,

arcuatis vel flexuosis, continuis, basidiis crassis bulbiformibus ful-
tis, hyalinis, 30-40 \approx 0,7.

Hab. in omnibus partibus *Sclerochloæ duræ* pr. Parmam
Italiæ borealis.

494. **Septoria tenella** C. et Ell. in Grevillea. — Sparsa; peritheciis 3047
atris, punctiformibus, prominulis; sporulis linearibus, rectis vel
curvulis, hyalinis, 40 μ . longis.

Hab. in *Festuca tenella*, New Jersey Amer. bor.

495. **Septoria Poæ** Catt. Contrib. allo studio dei miceti del Riso p. 3048
4, nec Oud. — Peritheciis hypophyllis, minutis, hemisphæricis,
albis, in maculis subquadratis nigris insidentibus, collabascendo
concavis, virescentibus, poro pertusis; sporulis exilissimis, 50 μ .
longis, luteo-hyalinis.

Hab. in foliis *Oryzæ sativæ* in Italia boreali.

496. **Septoria Oryzæ** Catt. Contrib. allo studio dei Miceti del Riso 3049
p. 5. — Peritheciis innato-prominulis, perexiguis, nigris, nume-
rosis, aggregatis, poro apertis, intra nervos in series parallelas
dispositis; sporulis minutissimis, cylindricis, rectis vel curvatis,
triseptatis, subhyalinis, 21 \approx 3.

Hab. in foliis et eorum vaginis *Oryzæ sativæ* in Ital. bor.

497. **Septoria Cynodontis** Fuck. Symb. myc. p. 389. — Peritheciis 3050
minutissimis, in stromate spurio nigro seriatim dispositis; ostioliis
minutis, papillatis, prominulis; cirris amorphis, sordidis; sporulis
filiformibus, longissimis, hyalinis, 50-65 \approx 1,7-2.

Hab. in foliis *Cynodontis Dactyli* in Rhenogovia et Italia.

498. **Septoria Bromi** Sacc. Mich. I. p. 194. — Maculis obsoletis ex- 3051
pallentibus, elongatis; peritheciis copiosis globoso-lenticularibus,
pertusis; sporulis filiformi-clavulatis, hinc acutis, illinc obtusis,
50-60 \approx 2, leniter curvis minute pluriguttulatis, hyalinis.

Hab. in foliis *Bromi mollis*, Conegliano Ital. bor. (SPEGAZ-
ZINI), in foliis glumisque *Bromi mollis* et *Phalaridis arundi-*
nacæ pr. Parma. — β . **Brachypodii** Sacc.: sporulis filiformibus, 30-
40 \approx 1-1,2, flexuosis. In ejusdem foliis in Gallia. — γ . **Alopecuri**
Karst. Symb. XV. p. 151: maculis nullis; peritheciis 80-100 μ .
diam.; sporulis dilutissime flavidis, 58-65 \approx 2,5-3. In foliis *Alope-*
curi pratensis in Fennia.

499. **Septoria Holci** Passer. F. Parm. Sept. n. 139. — Peritheciis 3052
in maculis parvulis griseis subrotundis sepultis, extus haud per-
spicuis, minutissimis globosis atris; sporulis vermiformibus trise-
ptatis hyalinis, endoplasmate opaco, 20-25 \approx 3.

Hab. in foliis languidis Holci lanati, Collecchio in Ital. boreali. — Ob sporulas ad *Sept. affinem* accedit, a qua differt ob peritheciolorum macularumque naturam.

500. **Septoria Epigejos** Thüm. Fungi aliq. Kirghis n. X. — Peritheciis dense gregariis, lineatim dispositis, majusculis, sine macula, ellipsoideis, emersis, nigris, epidermide tectis; sporulis bacillaribus, leniter curvatis, utrinque obtusatis, 4-5-septatis, numerosis, hyalinis, $45 \approx 3,5-4$. 3053

Hab. in culmis, vaginis et foliis subaridis Calamagrostidis Epigeios, Schorlyk (Orenburg) Rossia.

501. **Septoria affinis** Sacc. Mich. I. p. 194. — Maculis linearibus, longitudinalibus, arescendo dealbatis, rufo-cinctis; peritheciis lenticularibus, punctiformibus, 200 μ . diam., latiuscule pertusis, nigricantibus; sporulis bacillaribus, subflexuosis, $25-30 \approx 2-2\frac{1}{2}$, utrinque obtusiusculis, 4-5-septatis, non constrictis, e hyalino dilutissime chlorinis. 3054

Hab. in foliis Brachypodii pinnati in silva Montello, et in glumis Bromi mollis in agro parmensi.

502. **Septoria Brachypodii** Passer. F. Parm. Sept. n. 142. — Maculis nullis; peritheciis hypophyllis sparsis, punctiformibus atris; sporulis bacillari-fusiformibus, obscurissime multiseptatis, plurinucleolatis, dilute melleis $45-55 \approx 3,5$. 3055

Hab. in foliis aridis Brachypodii silvatici, Vigheffio in Italia boreali.

503. **Septoria Oudemansii** Sacc. Sept. Poæ Oud. Aanwinsten Fl. mycolog. van Nederland p. 9, nec Catt. — Peritheciis sparsis, minutissimis; sporulis hyalinis, 1-septatis, lanceolatis, $12 \approx 2,3$. 3056

Hab. in culmis siccis Poæ nemoralis pr. Broxmeer Hollaudia.

504. **Septoria silvatica** Pass. F. Parm. Sept. n. 143. — Maculis et peritheciis ut in *Sept. Brachypodii*; sporulis bacillaribus utrinque obtusis, integris, parce nucleolatis, hyalinis, $28-30 \approx 2,5$. 3057

Hab. in foliis siccis Brachypodii silvatici, Vigheffio pr. Parmam Italia borealis.

505. **Septoria Bellunensis** Speg. Dec. Mycol. 116. Sacc. Mich. II. p. 167. — Hypophylla v. amphigena; maculis exaridis, pallescentibus, primo oblongo-ellipticis, dein irregularibus sæpeque totum folium occupantibus; peritheciis minutis, 80-90 μ . diam., hinc inde sparsis, parum prominulis, contextu tenui-membranaceo; sporulis cylindræis, $20-30 \approx 3-4$, utrinque obtusiusculis, 1-2-septatis v. continuis, hyalinis. 3058

Hab. ad folia languida Moliniæ cœruleæ, Belluno Ital. bor.

(SPEGAZZINI).

506. **Septoria Grylli** Sacc. Mich. I. p. 195. — Maculis obsolete, ex- 3059
pallentibus; peritheciis inordinate sparsis, globoso-lenticularibus,
punctiformibus, atris; sporulis filiformibus, longissimis, 75-85 \approx 1,
utrinque obtusiusculis, eguttulatis, hyalinis.

Hab. in foliis Andropogonis Grylli, Padova Ital. bor.

507. **Septoria arundinacea** Sacc. Mich. I. p. 195. — Maculis oblon- 3060
gis, amphigenis, sordide ochraceis, fusco-cinctis; peritheciis gre-
gariis, innatis, e globoso lenticularibus, $\frac{1}{2}$ mill. diam., nucleo albo,
contextu exquisite laxe celluloso, fuligineo; sporulis bacillaribus,
60-70 \approx 5-6, curvulis, utrinque vix attenuatis, rotundatis, 6-7-se-
ptatis, non v. lenissime constrictis, prope septa guttulas minutas
foventibus, e hyalino dilute olivaceis.

Hab. in foliis Phragmitis communis, Padova Ital. bor. et in
Gallia (THERRY). — β . **major** Sacc.: sporulis 50-55 \approx 4-7, hyalinis,
10-15-guttulato-septulatis, in cirrum pallide carneolum denique
expulsis. In foliis languidis graminum pr. Lyon Galliæ (THERRY).
— β . **rhizomatum** Sacc. Mich. II. p. 345: sporulis bacillaribus 50-
70 \approx 3 $\frac{1}{3}$ -4 $\frac{1}{2}$, 8-9-nucleatis, subhyalinis. In rhizomate Arundinis
Donacis in Gallia australi.

508. **Septoria donacina** Sacc. Mich. I. p. 195. — Maculis nullis v. 3061
obsolete expallentibus; peritheciis sparsis, innato-erumpentibus e
globoso depressis, $\frac{1}{4}$ mill. diam., ostiolo exiguo, contextu minute
parenchymatico; sporulis dense fasciculatis, filiformibus, 65-80 \approx
1 $\frac{1}{2}$, vehementer curvatis, utrinque obtusiusculis, obsolete 6-10-
guttulato-septulatis, hyalinis.

Hab. in culmis, præsertim in eorum interiore pariete, Arun-
dinis Donacis in alveo Plavis, Susegana Ital. bor.

509. **Septoria Arundinis** (Mont.) Sacc. *Ascospora Arundinis* Mont. 3062
Cent. VI. l. c., p. 47, Syll. n. 1004. — Peritheciis sparsis innato-
prominulis ovoideis atris nitidis, poro apicali perforatis intus cor-
neis; sporulis oblongo-linearibus hyalinis, specie 3-septatis, 20 \approx 3.

Hab. in culmis Phragmitis in Gallia australi (CASTAGNE).

510. **Septoria Phragmitis** Sacc. Mich. I. p. 195. — Maculis subova- 3063
tis, arescendo dealbatis, fusco-marginatis; peritheciis punctiformi-
bus, lenticularibus, atris; sporulis cylindræis, utrinque attenua-
tis, 20-30 \approx 1 $\frac{1}{2}$ -2, curvulis, minute guttulatis, hyalinis.

Hab. in foliis Phragmitis communis, Vidòr (Treviso) Ita-
licæ bor. — A *Septoria* (*Ascospora*) *Arundinis* Mont. Syll. 275

longe diversa. — β . **minor** Sacc. Mich. II. p. 626: sporulis 15-18 \approx 1. In foliis graminum minorum, Elbeuf in Gallia (MALBRANCHE).

511. **Septoria littoralis** Speg. in Sacc. Mich. I. p. 486. — Peritheciis 3064
5-8 gregariis primo tectis dein erumpentibus, subsuperficialibus, globulosis, atris, ostiolo papillato, sicco umbilicato, donatis; contextu membranaceo, densissime parenchymatico, fuligineo-atro; sporulis cylindraceutis, rectis, vel curvulis apice rotundatis, basi subtruncatis, 50-65 \approx 3 $\frac{1}{2}$ -4, 3-septatis, pluri-guttulatis, hyalinis in sterigmatibus, ampulluliformibus (ut hyphæ *Chalaræ Ampullulæ*), guttulatis, 10 \approx 4-5, hyalinis.

Hab. in pagina interna vaginarum Phragmitis communis in insula Lido dicta, apud Venetias, Ital. bor.

512. **Septoria Donacis** Passer. in Rabh. Fung. eur. n. 2452. — Peritheciis 3065
punctiformibus, atris in maculis parvulis, exaridis, albicantibus, sparsis vel seriatis; sporulis fusiformibus, integris, rectis vel sæpius curvis, hyalinis, 25-35 \approx 2-2,5.

Hab. in foliis languidis Arundinis Donacis in Italia, Gallia, Lusitania. — Maculæ obsoletæ; perithecia ubique disseminata, innato-prominula, tecta; sporulæ fusoidæ 25-30 \approx 2-2 $\frac{1}{2}$, rarius tantum 20 \approx 2, deorsum acutiores nubilosæ.

513. **Septoria oxyspora** Penz. et Sacc. F. Mortol. tav. IV. fig. 13. 3066
— Peritheciis in maculis aridis plus minusve extensis foliorum insitis, minutissimis, dense congregatis, nonnunquam confluentibus, depressis, ostiolatis, 100-130 μ . diam., contextu brunneo, parenchymatico; sporulis fusiformibus, utrinque attenuatis, cuspidatis, curvulis, falciformibus vel flexuosis, hyalinis, eguttulatis, 20-23 \approx 3,5-4; basidiis brevibus, filiformibus, dein deliquescentibus.

Hab. in foliis languentibus Arundinis Donacis, Mortola Italiæ borealis (O. PENZIG).

514. **Septoria ophioides** Sacc. Mich. II. p. 143. — Peritheciis spar- 3067
sis innato-erumpentibus, globoso-depressis v. horizontaliter ovoideis, nigris, $\frac{1}{4}$ - $\frac{1}{3}$ mill. diam., contextu subparenchymatico ochraceo-fusco; ostioli obtusis; sporulis bacillaribus rectiusculis, 75-105 \approx 2, dense fasciculatis, utrinque obtusis, pluriguttulatis, denique creberrime minute septulatis, hyalinis.

Hab. in culmis vaginisque graminum minorum cum Astragalus in Persia australi (herb. patav.).

515. **Septoria graminum** Desm. Ann. Sc. nat. 1843, p. 339. *Sept. Tri-* 3068
tici Thüm. Herbar. mycol. œcon. n. 403. *S. cerealis* Passer. in

Herb. myc. œc. n. 602. *Depazea graminicola* Berk. Ann: N. H. n. 103. — Peritheciis in maculis plus minus elongatis, expallentibus, sæpius anguste fusco-marginatis, nervis limitatis, seriatis vel subsparsis, tectis, ægre nisi lente perspicuis, fuscis; sporulis tenuissimis, rectis vel sæpius curvis aut flexuosis, integris, minute nucleolatis, 55-75 \approx 1-1,3.

Hab. in foliis Graminacearum, præcipue Bromi sterilis, Brachypodii silvatici, Tritici vulgaris, Panici etc. in Gallia, Italia, Britannia, Austria, America.

516. **Septoria Maydis** Schulz. et Sacc. Micr. Slav. n. 57, Schulz. Ill. 3069 Fung. Slav. n. 704. — Peritheciis subgregariis epidermide velatis, globulosis, vix erumpentibus 0, 1 mill. diam.; sporulis cylindraceis, utrinque rotundatis, medio guttulatis, 20-22 \approx 2, hyalinis.

Hab. in vaginis emortuis Zeæ Maydis prope Vinkovce Slavoniæ.

517. **Septoria punctoidea** Karst. Hedw. 1884, p. 38. — Peritheciis 3070 subgregariis, subcutaneis, demum erumpentibus, sphæroideis, poro pertusis, atro-fuscis, humectatis fusco-pallentibus, 40-60 μ . diam.; sporulis fusoido-bacillaribus, curvulis vel rectis, guttulatis, hyalinis, 12-16 \approx 1,5-2.

Hab. in foliis aridis Caricis misandræ ad Adventbay Lapponiæ (Th. FRIES).

518. **Septoria caricinella** Sacc. et Roum. Reliq. Libert. IV. n. 152. 3071 — Maculis oblongis albicantibus fusco- v. rufo-marginatis; peritheciis innatis globoso-lenticularibus; sporulis filiformibus flexis v. rectiusculis, 4-6-guttatis, continuis, 60-70 \approx 1,5, hyalinis.

Hab. in foliis Caricis depauperatæ in Arduennis (LIBERT). — A *Septoriis caricicola*, *Caricis* et *riparia* prope diversa.

519. **Septoria gracillima** (Cooke) Sacc. *Darlucæ gracillima* Cooke 3072 Præcursor Monogr. Henders. p. 26. — Peritheciis.....; sporulis linearibus, rectis, multinucleatis, 30 \approx 2.

Hab. in foliis Caricis in Britannia (?).

520. **Septoria Caricis** Passer. Funghi Parm. Sept. n. 135. — Peri- 3073 theciis minutissimis tectis sparsis atris; sporulis cylindricis rectis vel vix curvis aut flexuosis, continuis, hyalinis, intus granulosis, 32-40 \approx 2,5.

Hab. in foliis siccis Caricis divulsæ, Parma in Ital. bor.

521. **Septoria caricicola** Sacc. Mich. I. p. 196. — Maculis subcircu- 3074 laribus, variis arescendo dealbatis, latiuscule brunneo-marginatis; peritheciis punctiformibus, atris; sporulis cylindraceis, utrinque ob-

tusis, $50 \approx 4$, leniter curvis, 7-8-septulatis minuteque guttulatis e hyalino dilute flavidulis.

Hab. in foliis *Caricis ripariæ*, Padova in Ital. bor. — Paululum ad *Hendersoniam* vergit.

522. **Septoria riparia** Passer. F. Parm. Sept. n. 134. — Peritheciis 3075
sparsis subglobosis atris, primo tectis dein erumpentibus et epidermide rupta cinctis; sporulis filiformibus vix curvis, continuis, minutissime nucleolatis hyalinis, $37-57 \approx 2$.

Hab. in foliis siccis *Caricis ripariæ*, Parma in Ital. bor.

523. **Septoria lineolata** Sacc. et Sp. Mich. II. p. 279. — Maculis ob- 3076
soletis; peritheciis lineari-seriatis, laxiusculis, e globoso depressis, $\frac{1}{8}-\frac{1}{6}$ mill. diam., pertusis, initio velatis dein semierumpentibus; sporulis filiformi-acicularibus, deorsum leniter incrassatis rotundatisque, $60-70 \approx 1\frac{3}{4}-2$, hyalinis.

Hab. in foliis arescentibus *Caricis glaucæ* etc., Conegliano in Ital. bor. et prope Rouen in Gallia. — A *S. caricicola*, *S. riparia*, *S. Caricis* dispositione perithecorum formaque sporularum diversa.

524. **Septoria Debauxii** Roum. F. Gall. n. 27. — Peritheciis innatis, 3077
globulosis, atris, punctiformibus, in maculis subcircularibus candidis v. albidis, brunneo-cinctis sitis, paucis: sporulis linearibus, leniter arcuatis, in cirrum album exeuntibus.

Hab. in calamis *Scirpi littoralis* in Gallia merid.

525. **Septoria Scirpi** Sacc. Mich. I. p. 196. — Maculis indetermina- 3078
tis expallentibus; peritheciis gregariis punctiformibus, atris; sporulis bacillaribus $38-40 \approx 3-3\frac{1}{2}$, utrinque obtusiusculis, curvulis, 3-septatis, hyalinis.

Hab. in calamis *Scirpi lacustris* ad lacum Benacum Ital. bor., sociâ *Sphaerellâ Scirpi-lacustris* cujus forte spermogonium.

526. **Septoria Peckii** Sacc. *Cryptosporium Scirpi* Peck 25 Rep. p. 3079
84. — Peritheciis gregariis subglobosis v. subquadrangularibus, nigris, in macula pallida sitis; sporulis elongato-fusoideis, leniter curvis, hyalinis, $15-18 \mu$. longis.

Hab. in foliis calamisque *Scirpi fluviatilis*, Castleton Rensselaer county Amer. bor.

527. **Septoria lacustris** Sacc. et Thüm. Mich. II. p. 347. — Peri- 3080
theeciis gregariis epidermide jugiter tectis, globoso-lenticularibus, $\frac{1}{4}-\frac{1}{3}$ mill. diam., poro pertusis, contextu parenchymatico pure nigricante; sporulis bacillari-acicularibus, curvulis, $75-85 \approx 3-3\frac{1}{2}$, utrinque attenuato-obtusiusculis, initio pluriguttulatis, dein (spu-

rie?) 10-12-septatis e hyalino dilutissime fuscidulis, humiditate mox in cirros filiformes, spiraliter tortos fumosos eximie protrusis.

Hab. in calamis Scirpi lacustris diu aqua immersis prope Lyon in Gallia (THERRY).

528. **Septoria Scirpoidis** Passer. Funghi Parm. Sept. n. 133. — Pe- 3081
 ritheciis crebre sparsis, tectis subglobosis atris, pustulatim epidermidem sublevantibus, non erumpentibus; sporulis oblongo-clavatis, basidiis filiformibus fultis, integris, hyalinis, 25-30 \approx 5, intus granulosus, opacis.

Hab. in apice calami Scirpi Holoschœni, S. Ruffino pr. Parmam in Italia bor.

529. **Septoria Holoschœni** (Mont.) Pass. Funghi Parm. Sept. n. 132, 3082
Ascospora Holoschœni Mont. Syll. n. 1003 et Cent. VI. n. 34, p. 46. — Peritheciis sparsis, epidermide longitrorsum fissa tectis, subsphæricis fusco-atris, ostiolo brevissimo pertenui erumpente instructis, intus albis; sporulis linearibus rectis aut curvulis, 8-12-septatis, obscure nucleolatis, 40-55 \approx 3, utrinque obtusis.

Hab. in calamis Scirpi Holoschœni præcipue ad summitatem arescentem, Perpignan et Montaud Galliæ (MONT. CAST.) et pr. Parmam Ital. (PASSERINI).

530. **Septoria narvisiana** Sacc. *Septoria Holoschœni* Sacc. Mich. I. 3083
 p. 196, non Mont. — Maculis obsoletis; peritheciis globulosis, minutissimis, innato-erumpentibus; sporulis cylindræo-fusoideis, 50 \approx 4, utrinque acutis, 5-7-septatis, non constrictis, curvulis dilutissime olivaceis.

Hab. in calamis Scirpi Holoschœni in alveo Plavis, Narvesa Ital. bor. — Paullulum ad *Hendersoniam* vergit. An status spermogonicus *Leptosphæriæ Micropogonis* Sacc.? Sporulis subfusoideis olivaceis a *Sept. Holoschœni* certe differt.

531. **Septoria Arisari** (Dur. et Mont.) Sacc. *Rhabdospora Arisari* Dur. 3084
 et M. Fl. Alg. I. p. 594, Mont. Syll. crypt. p. 278. — Amphigena; peritheciis minutis atris opacis in maculas nigrescentes irregulares aggregatis, 50 μ . d.; sporulis linearibus rectis, 15-20 \approx 1,6.

Hab. in foliis Arisari vulgaris in Algeria.

532. **Septoria Ari** Desm. 14 Not. 1847, p. 18, Pass. F. Parm. Sept. 3085
 n. 125. — Peritheciis punctiformibus, atris, in maculis subcircularibus, exaridis candidis, fusco-cinctis aggregatis; sporulis filiformibus utrinque leniter attenuatis, rectis vel curvulis, continuis, plurinucleolatis, flavidulis, 42-50 \approx 2,5.

Hab. in foliis *Ari maculati* et *Ari italici* in Gallia et in Italia.

533. **Septoria Callæ** (Lasch) Sacc. *Rhabdospora Callæ* (Lasch) Ra- 3086
benh. Herb. Myc. II. n. 554. *Depazea Callæ* Lasch H. M. n. 368
(diagnosim non vidi).

Hab. in foliis *Callæ* in Germania.

534. **Septoria Junci** Desm. 21 Not. 1853, p. 1. — Culmigena; peri- 3087
theciis immersis, numerosissimis, 150-200 μ . diam. subseriatis, fu-
scis, globoso-conicis, demum depressis, epidermide canescenti tectis,
ostiolo brevissimo prominulo pertuso instructis; nucleo albido aut
argillaceo; sporulis magnis, longissimis, 50-80 \approx 3, subrectis vel
flexuosis, 12-20-nucleatis, nucleis opacis.

Hab. in culmis exsiccatis *Junci maritimi* et *articulati* in Gallia.

535. **Septoria Rhynchosporæ** Dur. et Mont. Fl. Alg. I. p. 594. *Rhab-* 3088
dospora Rhynchosporæ Mont. Syll. Crypt. p. 278. — Peritheciis
minutissimis 80 μ . diam., erumpenti-innatis atris; sporulis oblon-
go-fusiformibus, obscure septatis, septo medio evidentiori, 10 \approx 3,5.

Hab. in foliis *Rhynchosporæ laxæ* in Algeria.

536. **Septoria menispora** B. et Br. Ann. N. H. n. 425. — Perithe- 3089
ciis epidermide tectis, ellipsoideis, nigris; ostiolo prominulo erum-
pente; sporulis longissimis, curvatis, utrinque acutis, pluri-nucleo-
latis, nucleolis non æquidistantibus.

Hab. in foliis *Typhæ latifoliæ*, Spye Park in Britannia et Liege in Belgio.

537. **Septoria angusta** (Cooke) Sacc. *Darlucæ angusta* Cooke Præc. 3090
Monogr. Henders. p. 26. — Peritheciis.....; sporulis subfusifor-
mibus, rectis vel curvulis, multinucleatis, pallide olivaceis, 30 \approx 3.

Hab. in *Typha* in America boreali.

538. **Septoria filispora** (Cooke) Sacc. *Darlucæ filispora* Cooke Præc. 3091
Monogr. Henders, p. 25. — Peritheciis.....; sporulis filiformibus,
multinucleatis, flaveolis, 60 \approx 2.

Hab. in *Typha* in specimine *Desmazierii* cum *Hendersonii* *Typhoidearum* commixta, in Gallia.

539. **Septoria Sparganii** Passer. Funghi Parm. n. 124. — Peritheciis 3092
minimis sparsis punctiformibus acutis atris; sporulis subfusifor-
mibus rectis vel curvulis, pluriseptatis, hyalinis, pallidissime fla-
vidis, 43-45 \approx 2,5.

Hab. in foliis aridis *Sparganii ramosi*, Parma in Ital. bor.

540. **Septoria Alismatis** Oudem. Mat. Myc. Ned. p. 4. Hedwigia 1876, 3093

p. 101. — Maculis fuliginosis subcircularibus demum centro griseo-albicantibus in utraque pagina visibilibus; peritheciis minimis atris, vix lente acriori conspicuis, magis hypophyllis; sporulis cylindricis, rectis, continuis ad polos nucleatis, medio septatis hyalinis, 15-18 \approx 3.

Hab. in foliis languidis *Alismatis Plantaginis*, Collecchio in Italia, pr. Driebergen Hollandiæ et in Austria. — Inter *Septoriam* et *Ascochyta* ambigit. An *Depazea Alismatis* West. huc spectat? *Septoria Alismatis* Thüm. Herb. eadem est.

541. **Septoria hydrophila** Sacc. et Sp. Mich. I. p. 195. — Maculis nullis; peritheciis cladogenis, sparsis, punctiformibus, 120-150 μ . d., lenticularibus, pertusis, contextu laxiuscule parenchymatico, fuligineo; sporulis bacillaribus utrinque attenuatis, 90 \approx 3, curvatis, pluriguttulatis hyalinis, basidiis filiformibus brevibus suffultis. 3094

Hab. in caulibus *Alismatis Plantaginis*, Conegliano in Italia boreali (SPEGAZZINI).

542. **Septoria alismatella** Sacc. Mich. I. p. 196. — Maculis nullis v. indeterminatis; peritheciis caulogenis e globoso depressis, subcutaneis, 70 μ . diam., pertusis; sporulis bacillaribus, rectiusculis, 15 \approx 1, utrinque acutatis, eguttulatis, hyalinis. 3095

Hab. in caule *Alismatis Plantaginis* in silva Montello Ital. bor. — A *Septoria Alismatis* Oud. prorsus aliena.

543. **Septoria Colchici** Passer. F. Parm. Sept. n. 131. — Peritheciis amphigenis in maculis oblongis arescentibus dense sparsis, epidermide tectis, fuscis; sporulis bacillaribus rectis vel curvulis, continuis, intus granulosis, hyalinis, 20-25 \approx 1,7. 3096

Hab. in foliis Colchici alpini in Apennino prope *la Cisa* in Italia.

544. **Septoria sublineolata** Thüm. Pilzfl. Sibir. n. 116. — Peritheciis epiphyllis, sparsis, sublinearibus, mediis vix emersis, planis, in maculis lineariformibus, exaridis, albidis, fusco-marginatis; sporulis cylindraceo-fusiformibus, pauci-curvatis, utrinque rotundo-acutatis, nucleatis, hyalinis, 60 \approx 4. 3097

Hab. in foliis vivis *Veratri nigri*, Minussinsk in Sibiria asiatica.

545. **Septoria Asphodeli** Mont. in Ann. Sc. nat. t. XI. p. 48 (1849) et Syll. Crypt. n. 1002. — Peritheciis epidermide innatis subtectis globoso-ovoideis sparsis, ostiolo prominulo atro albo-pulverulento; sporulis oblongo-linearibus, 20 \approx 7, hyalinis, utrinque 1-guttulatis, hyalinis. 3098

Hab. in caulibus *Asphodeli fistulosi* in Galloprovincia (CASTAGNE). — « An potius *Phoma?* »

546. **Septoria asphodelina** Sacc. *Septoria Asphodeli* West. Bull. Ac. 3099
Belg. Ser. II. f. XII. n. 7. — Maculis epiphyllis, magnis, rotundatis, pallido-brunneis, centro albicantibus, fusco-cinctis; peritheciis minutis, nigris, sparsis; cirris albis; sporulis cylindricis rectis, 30 \approx 2,5.

Hab. in foliis languidis *Asphodeli albi* in Belgio (R. P. DUMONT).

547. **Septoria ornithogalea** Oud. Aanw. Fl. myc. Hederland VI. p. 6. 3100
— Maculis pallidioribus, semioblongis, ad latera foliorum emarcescentium sitis; peritheciis amphigenis, parvis, nigris, sparsis, unico strato cellularum formatis, poro apicali minuto apertis, nucleo roseo; sporulis singulis hyalinis, linearibus vel lineari-acuminatis, septatis (?), 50-70 \approx 2-3.

Hab. in foliis *Ornithogali umbellati* pr. Lugdunum Batavorum (Leyden) Hollandiæ. — A *Sept. Ornithogali* differre videtur ob perithecia maculas foliorum laterales incolentia, quæ in *Sept. Ornithogali* foliorum apices arescentes semper occupant.

548. **Septoria Ornithogali** Passer. in Thüm. Mycoth. Univ. n. 496. 3101
Flora 1877, N. 13, Spegazzini Decades mycologicæ italicæ n. 20.
— Peritheciis punctiformibus fuscis in folii tractu superiore plus minus longo exarido sparsis; sporulis filiformibus, utrinque leniter attenuatis, rectis vel curvulis, sæpe spurie pluriseptatis, hyalinis, in cirrum longum albidum vel flavidum ejectis, 31-65 \approx 2,5.

Hab. in foliis *Ornithogali umbellati*, Parma et Conegliano in Italia bor.

549. **Septoria Scillæ** West. in Kichx Flor. Fl. I. p. 423. Fuck. Symb. 3102
p. 389. — Peritheciis subimmersis, planis, perforatis, atris; cirris contortis, albis; sporulis filiformibus, longissimis, curvatis vel rectis, hyalinis, 50-75 \approx 2,7, spurie 5-6-septatis.

Hab. in apice foliorum nondum emortuorum *Scillæ bifoliæ*, *S. maritimæ*, *S. nutantis*, *Muscari comosi* in Belgio, Germania, Italia, Lusitania.

550. **Septoria Urgineæ** Pass. et Beltr. F. Sicul. n. 25. — Peritheciis 3103
minutis, superficialibus atris, subglobosis, inter folii nervos gregariis et maculas fuscas, striæformes, protractas formantibus; sporulis fusiformibus rectis, medio septatis, hyalinis, 35 \approx 5.

Hab. in foliis languidis *Urgineæ Scillæ*, Licata in Sicilia.

551. **Septoria Alliorum** West. Bull. Acad. Brux. 1851, p. 396, Kickx 3104

F. cr. Fl. I. p. 423. — Peritheciis epiphyllis, semiimmersis, rufo-brunneis, in maculis irregularibus, subviridibus centro albicantibus, sparsis; sporulis cylindricis, flexuosis, utrinque obtusis, 4-6-nucleolatis.

Hab. in foliis Allii Porri etc. in Belgio et Ronchi in Italia boreali.

552. **Septoria alliacea** Cooke in Grevillea. — Sparsa, punctiformis; 3105
peritheciis immersis, tectis, vix distinctis; sporulis filiformibus, flexuosis, 50-60 μ . longis.

Hab. in foliis Allii specie, Belgaum Indiæ orientalis (J. HEBSON).

553. **Septoria viridi-tingens** Curt. in Peck Rep. on the St. Mus. 3106
New York. — Maculis obscuris, vagis, confluentibus, viridi-tinctis v. viridi marginatis; peritheciis numerosis, minutis, succineis, molliusculis, raro dein nigricantibus; sporulis continuis filiformibus, 25-30 μ . longis.

Hab. in foliis Allii tricocci in Mont. Helderberg in America boreali.

554. **Septoria Yuccæ** (Schwein.) Sacc. *Sphæria Yuccæ-gloriosæ* 3107
(Schwein.). Curr. Comp. Sphær. p. 286, t. 49, fig. 208. — Peritheciis innatis, epidermide cinerea secedente tectis, globulosis; ostioli punctiformibus; sporulis hyalinis, linearibus, 25-45 μ . longis, non septatis.

Hab. in foliis emortuis Yuccæ gloriosæ in Pennsylvania Amer. bor. — Cfr. Syll. II. p. 399.

555. **Septoria yuccogena** Sacc. *Septoria Yuccæ* Thüm. Contr. Fun- 3108
ghi Litor. n. 200 t. 1, fig. 6, nec Schw. — Peritheciis amphigenis, sparsis, conicis, prominulis, minutis, vel etiam subgregariis, nigris; sporulis cylindræis, utrinque acutatis, enucleatis, uniseptatis, hyalinis, 10 = 2,5-3.

Hab. ad folia emortua Yuccæ gloriosæ in agro goritiensi. — «An potius *Ascochyta*?»

556. **Septoria megaspora** Speg. Arg. Pug. I. p. 188. — Peritheciis 3109
majusculis, 250-325 μ . diam., globosis, subcarbonaceis, levibus, atris, parenchymati foliorum immersis, sursum ostiolo conoideo erumpentibus, sparsis, maculis nullis; sporulis cylindræis, crassis, rectis vel vix curvulis, utrinque obtusis, primo continuis, granuloso-farctis, guttulatis, dein 1-septatis, non vel vix constrictis, hyalinis, 60-100 = 10-12.

Hab. in foliis emortuis Agaves Americanæ ubique vulgarissima in campestribus agri bonaerensis Argentinæ.

557. **Septoria Bellynckii** West. Bull. Acad. Brux. Ser. II. t. XII. n. 7. 3110

— Maculis nullis; peritheciis numerosis, nigris, nitidis, punctiformibus in areis arescentibus vage sparsis; cirris albidis; sporulis cylindricis rectis vel leniter curvatis, $15 \approx 1,5$.

Hab. in foliis Aloës variegatæ, Namur in Belgio (BELLYNCK).

558. **Septoria Erythronii** Sacc. et Sp. Mich. I. p. 197. — Maculis 3111

subcircularibus sinuosisque, albicantibus; peritheciis gregariis, punctiformibus, lenticularibus, prominulis, 80–100 μ . diam., subastomis; contextu minute parenchymatico subochraceo; sporulis filiformibus, subtortuosis, 45–50 \approx 4, utrinque acutiusculis, pluriguttulatis obsoleteque septatis, hyalinis.

Hab. in foliis Erythronii Dentis-canis, Conegliano in Italia boreali.

559. **Septoria Trillii** Peck Bot. Gaz. 1879, p. 170. — Maculis sub- 3112

orbicularibus, albidis; peritheciis numerosis, in centro macularum præcipue aggregatis, nigris; sporulis filiformibus, rectis vel curvulis, 20–40 μ . longis.

Hab. in foliis vivis Trillii, Illinois Amer. bor.

560. **Septoria brunneola** (Fr.) Niessl Mähr. Crypt. p. 35 Sacc. Mich. 3113

I. p. 197. *Sphæria brunneola* Fr. S. M. II. p. 526. — Peritheciis gregariis, globosis, minimis, subastomis e macula oblonga brunnea nigricante emergentibus; sporulis filiformibus, 75–100 \approx 2, continuis hyalinis.

Hab. in foliis Convallariæ majalis in Suecia, Italia, Moravia.

561. **Septoria Convallariæ** West. Les crypt. d'après leurs stat. nat. 3114
p. 40 (nomen).

Hab. in foliis Convallariæ majalis et Polygonati in Belgio et Sibiria.

562. **Septoria carpophila** Sacc. et Roum. Reliq. Lib. Ser. IV. n. 153. 3115

— Peritheciis gregariis, epidermide velatis, globoso-depressis, $\frac{1}{3}$ mill. diam., pertusis; sporulis anguste fusiformibus, acutis, curvis, continuis, hyalinis, 27–30 \approx 3.

Hab. in baccis Convallariæ majalis putrescentibus.

563. **Septoria Maianthemii** West. Exs. n. 940, Kickx Fl. crypt. Fl. 3116

I. p. 429. — Peritheciis hypophyllis, brunneo-nigricantibus, dein applanatis, in maculis latis numerosis indeterminatis, griseo-plumbeis, griseo-nigris, sparsis; sporulis cylindricis, subinde apice vel basi incrassatis, utrinque obtusis, 6–9-nucleolatis, 50–70 \approx 3; cirris albidis.

Hab. in foliis Maianthemii bifolii prope Louvain Belgii (ED. MARTENS). — An huc spectat *Sphæria crispans* in Wallr. Fl. crypt. n. 3711?

564. **Septoria Paridis** Passer. F. Parm. Sept. n. 128. — Maculis 3117 parvis irregularibus albo-exaridis ferrugineo-marginatis; peritheciis punctiformibus atris; sporulis filiformibus integris rectis vel leniter curvis, 20 = 1.

Hab. in foliis Paridis quadrifoliæ in Apennino prope la Cisa Ital. bor.

565. **Septoria sarmenticia** Sacc. Miscell. Myc. F. Gall. n. 2249. — 3118 Peritheciis gregariis, globosis, papillatis, $\frac{1}{6}$ mill. diam., subepidermicis; sporulis bacillari-fusoideis, utrinque acutis, continuis, hyalinis, 7-11 = 1,5.

Hab. in caule Tami communis, Rouen in Gallia (MALBRANCHE).

566. **Septoria Tami** West. Bull. Ac. Brux. t. XIX. n. 9. — Maculis 3119 epiphyllis, irregularibus, rotundatis vel angulosis, linea incrassata rugosa limitatis, purpureo-fusco-cinctis; peritheciis immersis, minutis, raris, sparsis; sporulis cylindricis, brevibus, utrinque obtusis, 7-8-globoso-nucleolatis.

Hab. in foliis Tami communis, Namur in Belgio.

567. **Septoria smilacina** Dur. et Mont. Fl. Alger. I. p. 591. Mont. 3120 Syll. n. 1006. — Hypophylla; maculis nullis; peritheciis immersis, prominulis, ovoideis, sparsis pro ratione magnis, apice albo-cinctis, nucleo niveo faretis; sporulis bacillaribus, rectis, hyalinis, obtusis, 20-40 = 2,7 nucleolatis dein 4-septatis.

Hab. in foliis exsiccatis Smilacis mauritanicæ, in Algeria Africæ et Coimbra Lusitanicæ.

568. **Septoria Smilacinæ** Ell. et Mart. Amer. Nat. 1882, p. 1001. — 3121 Maculis cinereis, oblongis, fusco-nigricantibus, marginatis; peritheciis pallido-brunneis, conoideis, sæpe epiphyllis; sporulis hyalinis, filiformibus, guttulatis, 63-114 = 3.

Hab. in foliis Smilacinæ, Chester in Pennsylvania.

569. **Septoria Gladioli** Passer. in Rabh. Fung. eur. 1956, Funghi Parm. 3122 Sept. n. 127. — Peritheciis punctiformibus, atris in maculis exaridis fulvo-marginatis; sporulis cylindricis subrectis, continuis, hyalinis, cirrose ejectis.

Hab. in foliis Gladioli segetum, Parma in Italia, et Gladioli gandavensis, Coimbra in Lusitania.

570. **Septoria murina** Thüm. Contr. Myc. Lusit. n. 387. — Perithe- 3123

ciis dense gregariis, epiphyllis, murinis, minutissimis, globulosis in maculis parvis, orbiculatis vel oblongis, tuberculatis, griseis, vix obscurius cinctis; sporulis numerosis, bacillaribus, tri-quinqueseptatis, ad septa constrictulis vel quinqueguttulatis, rectis vel leniter arcuatis, hyalinis, 8-14 \approx 3.

Hab. in foliis vivis Iridis fœtidissimæ, Coimbra in Lusitania.

571. **Septoria Epipactidis** Sacc. Mich. I. p. 197. — Maculis oblongis, 3124
arescendo albicantibus; peritheciis lenticularibus, atris, pertusis;
sporulis cylindraceo-bacillaribus, 28-30 \approx 2, utrinque obtuse atten-
nuatis, curvatis, 4-6-guttulatis, hyalinis.

Hab. in foliis Epipactidum, Cadore in Ital. bor. (S. VENZO).

572. **Septoria Gymnadeniæ** Thüm. Pilzfl. Sibir. n. 817. — Perithe- 3125
ciis amphigenis, submagnis, dense gregariis, exsertis, globoso-co-
nicis, saturate fuscis vel nigris in maculis sordide viridibus, inde-
terminatis latissime sordide albo-viridi-marginatis; sporulis fusi-
formibus, apice acutatis et curvatis, uni-biseptatis vel plurigut-
tulatis, hyalinis, 24-26 \approx 3, basidiis brevibus, irregularibus suffultis.

Hab. in foliis subaridis Gymnadeniæ conopseæ in silvis Ssamodourowha Sibiricæ asiat. — A *Septoria Orchidearum* West. et *S. Epipactidis* Sacc. characteribus indicatis diversa.

573. **Septoria Orchidearum** West. Exs. n. 638, Kickx Fl. cr. Fl. I. 3126
p. 423. Sacc. Mich. I. p. 197, *Sept. Winteri* Kunze in Rab. F.
Eur. — Maculis obsolete expallentibus, brunneis, subinde areola
pallidiore cinctis; peritheciis epiphyllis, minutis, luteo-succineis,
dein brunneis vel nigris; sporulis bacillaribus, utrinque acutis, 18-
22 \approx 1, rectiusculis, hyalinis, 6-8-nucleolatis.

Hab. in foliis vaginisque Orchidis latifoliæ, O. Morionis, Listeræ ovatæ, Platantheræ bifoliæ in Belgio, Italia, Gallia.

574. **Septoria Martineziæ** Thüm. Contr. Myc. Lusit. n. 402. — Pe- 3127
ritheciis sparsis, solitariis, oblongis, subemersis, hemisphæricis,
mediis, atris, epiphyllis, in maculis irregularibus, arescendo ochra-
ceis, spadiceo-cinctis, primo fuligineo-brunneis; sporulis bacillari-
bus, rectis, utrinque obsolete uniseptatis vel fere continuis sed
semper subguttulatis, achrois, 32 \approx 4.

Hab. ad folia languida Martineziæ caryotæfoliæ in calidariis horti botanici, Coimbra in Lusitania (MOLLER).

III. *Acotyledoneis et in Insectis.*

575. **Septoria Equiseti** Desm. in Moug. Stirp. Vog. n. 1264. *Libertella Equiseti* Desm. 14 Not. p. 179. — Maculis minutis, ferrugineis; pustulis sparsis, parvulis, subhemisphæricis, epidermide tectis, dein poro pertusis; sporulis linearibus curvatis, utrinque obtusis, hyalinis, pluriguttulatis, 40 = 4. 3128

Hab. in caulibus languidis *Equiseti arvensis* in Gallia. — Quum cl. Desmazières ad *Septoriam* suam *Libertellam Equiseti* serius transtulerit, perithecia adesse censendum est.

576. **Septoria detospora** Sacc. Mich. I. p. 529. — Peritheciis laxe gregariis, epidermide æquali velatis, lentiformibus, diam. $1\frac{1}{2}$ mill.; sporulis bacillaribus, flexuosis, 60 = 3, pluriguttulatis, hyalinis, prope basim processu laterali brevi inter se connexis. 3129

Hab. in caule *Equiseti limosi* pr. Saintes in Gallia (BRUNAUD).

577. **Septoria mirabilis** Peck 25 Rep. p. 87. — Maculis luteis vel brunneis angulosis, venulis foliorum limitatis; peritheciis hypophyllis, minutis, poro rotundo pertusis, pallidis vel luteis; cirris longis, albis, fragilibus; sporulis latis, simplicibus, oblongo-obovatis, uno apice acutioribus vel subfusiformibus, 32-40 = 12. 3130

Hab. in frondibus *Onocleæ sensibilis*, Sandlake Amer. bor. — «An potius ad *Nectrioideas* spectans?».

578. **Septoria aquilina** Passer. in Erb. critt. it. ser. II. n. 817, Fungghi Parm. Sept. n. 150. — Peritheciis tectis, vix epidermidem in pagina supera sublevantibus, luce transversa punctum pellucidum sistentibus; sporulis baculiformibus clavatis, crebre articulatis, extremo altero acuto, altero rotundato, hyalinis, opacis, 50-65 = 4, loculis interdum guttulatis. 3131

Hab. in frondibus aridis brunneo-maculatis *Pteridis aquilinæ*, Collecchio et Sala in Italia bor.

579. **Septoria Scolopendrii** Sacc. Mich. I. p. 197. — Maculis indeterminatis arescendo ochraceo-rufescentibus obsoletisve; peritheciis hinc inde aggregatis, punctiformibus, lenticularibus, 50-80 μ . diam., anguste pertusis; contextu denso, atro-olivaceo; sporulis filiformibus, rectis curvatisve, 24-28 = $1\frac{1}{2}$ -2, utrinque obtusiusculis, guttulatis, hyalinis. 3132

Hab. in fronde *Scolopendrii officinarum*, Selva Conegliano in Ital. bor. (SPEGAZZINI). — An *Sept. Scolopendrii* Lac. in

Rev. Myc. II. p. 62 (in ejusdem foliis, Havre Galliæ) huc spectet, deficiente diagnosi, non liquet.

580. **Septoria thecicola** B. et Br. Intell. Obs. 1863, p. 9, f. 1, *Sphæ-* 3133
ropsis thecicola Berk. Ann. N. H. n. 424. — Peritheciis superficialibus, convexis, collabentibus, nigris, rugosis poro pertusis; sporulis delicatis, linearibus, rectis, longitudine variis.

Hab. in capsulis Polytrichi piliferi, Aberdeen Britannia.

581. **Septoria pterophila** Sacc. Mich. I. 93, Fungi ital. tab. 90. — 3134
Peritheciis laxè sparsis, e globoso lenticularibus, 100-150 μ . diam., innato-prominulis, ostiolo impresso indistincto, atro-fuligineis; sporulis cylindræo-vermicularibus utrinque obtusiusculis, 45-50 \approx 3 $\frac{1}{4}$ -4, 6-7-septatis, ad septa non constrictis, e hyalino chlorino-olivaceis.

Hab. in alis putrescentibus Cicadæ Orni, Conegliano in Ital. bor. (SPEGAZZINI).

PHLEOSPORA Wallr. Fl. crypt. With. Rust. Cab. p. 7. (Ety. *phleo* effundo, et *spora*), *Septorella* Berk. *Fusarium* Auct. p. p. — Perithecia imperfecte evoluta, late pertusa, subcuticularia, e contextu matricis mutato plerumque formata. Sporulæ fusoideo-bacillares, crassiusculæ, 2-pluriseptatæ, hyalinæ. — Ad *Septoglæum* inter Melanconieas valde accedit.

1. **Phleospora Aceris** (Lib.) Sacc. *Septoria Aceris* (Lib.) B. et Br. 3135
Ann. N. H. n. 432, Sacc. Mich. I. p. 527, *Ascochyta Aceris* Lib. Exsicc. n. 54, *Sept. acericola* Desm. 21 Not. p. 11. — Peritheciis genuinis nullis, sed nucleis minutis, brunneis, acervulatis, sub-epidermicis; sporulis fusoideo-clavatis, 22-28 \approx 5, 3-septatis, non constrictis, hyalinis; cirris minutis pallidis.

Hab. in foliis *Aceris campestris*, *Platanoidis* et *Pseudo-Platani* in Italia, Britannia, Gallia, Austria. — Sec. Passer. Sept. Parm. n. 19, sporulæ 2-3-septatæ, 33-36 \approx 2. An ergo species diversa? — *Sept. castanicola* et *Sept. quercicola* affines sunt sed perithecia magis distincta videntur.

2. **Phleospora Mori** (Lév.) Sacc. *Septoria Mori* Lév. in Ann. Sc. nat. 3136
1846. V. p. 279, Sacc. Mich. I. p. 175, *Fusarium maculans* Bè-reng. Atti Congr. Mil. 1844, *Fusisporium Mori* Mont. Bull. Soc. Agr. 1853. — Maculis albidis vel ochraceis brunneo-cinctis; peritheciis innatis plerumque epiphyllis globosis, gregariis, sæpe parum distinctis; sporulis cylindricis, curvulis, sursum attenuatis, utrin-

que obtusiusculis, 3-septatis guttulisve hyalinis, 40-50 = 4, basidiis brevibus variis fultis.

Hab. in foliis Mori albæ et M. nigræ in Britannia, Gallia, Italia, Germania, Austria inf. — Ob perithecia sæpe indistincta ad *Septoglœum* vel *Fusarium* vergit. Folia, necando, excidere cogit.

3. **Phleospora moricola** (Pass.) Sacc. *Septoria moricola* Pass. in Myc. 3137
univ. n. 394. — A *Septoria Mori* Lév.: maculis indeterminatis, non rufo-limitatis; peritheciis præcipue hypophyllis, minoribus, sparsis vel laxe gregariis, non centralibus, nec circinatis et sporulis exquisite multiseptatis, differre videtur. — An ejusdem forma peculiaris autumnalis?

Hab. in foliis languidis Mori albæ per autumnum, Parma, Padova in Italia bor. — Folia multo minus vexat quam *Ph. Mori*.

4. **Phleospora Ulmi** (Fr.) Wallr. Comp. Fl. Crypt. Germ. n. 1545, 3138
Sept. Ulmi Fr. Nov. Fl. Suec. V. p. 78 (1819), *Stilbospora Uredo* DC. (1815), *Sphæria ulmicola* Biv. Bern. (1815), — Maculis brunneis; peritheciis tenuibus, sparsis, hypophyllis; cirris albidis; sporulis cylindræco-botuliformibus, utrinque rotundatis, initio guttulis, dein 4-septatis, 55 = 6.

Hab. in foliis Ulmi campestris in tota Europa et in Amer. bor. — Spermogonium *Phyllachoræ Ulmi* (Sow.) Fuck. Ob perithecia subinde obsoleta ad *Septoglœum* nutat.

5. **Phleospora Oxyacanthæ** (K. et S.) Wallr. Comp. Fl. Crypt. Germ. 3139
n. 1546, *Septoria Oxyacanthæ* Kunze et Schm. Mykol. Hefte II. p. 108, Sacc. Mich. I. p. 176. — Maculis flaventibus vel obsoletis; peritheciis lenticularibus, plerumque hypophyllis, subinde imperfectis; cirris lutescentibus; sporulis bacillaribus, deorsum subincrassatis, 70-80 = 6-8, initio granulosis, dein 6-8-septatis, hyalinis.

Hab. in foliis vivis Cratægi *Oxyacanthæ* in Suecia, Italia, Lusitania, Britannia, Germania, Austria inf. — Ob perithecia minus distincta ad *Septoglœum* vergit.

RHABDOSPORA Mont. in Fl. Alg. Bot. p. 592, emend. Sacc. Mich. II. p. 6. (Etym. *rhabdos* virga, baculus, et *spora*). — Perithecia subcuticulari-erumpentia, globulosa vel depressa, typice papillata, solidiuscula, subinde subhysterioidea, atra vel fusca, plerumque non maculicola, nec foliicola. Sporulæ bacillares vel filiformes, pluriguttatæ vel pluriseptatæ, hyalinæ. Basidia varia vel obsoleta. — A *Septoria* differt fere ut *Phoma* a *Phyllosticta*. Species in Mono-

cotyledoneis obvias interdum sub *Septoria* retinui. Cfr. p. 560 in nota. Nonnullæ species, ubi perfectius exploratæ, forte ad *Phlyctænâ* ducendæ erunt.

I. In *Dicotyledoneis lignosis*.

1. **Rhabdospora ribicola** (B. et C.) Sacc. *Septoria ribicola* B. et C. 3140
North Amer. Fungi n. 444^{bis}. — Ramulicola; peritheciis sparsis nitidis; sporulis linearibus curvulis, 25 μ . longis.
Hab. in ramulis dealbatis *Ribis rotundifolii*, Wisconsin.
2. **Rhabdospora applanata** (Pr.) Sacc. *Filospora applanata* Preuss 3041
F. Hoyersw. n. 319. — Peritheciis globoso-depressis, subtectis; ostiolo minuto, punctiformi, perforato, parvo, atro; maculis elongatis, determinatis, nigris, insidentibus cum floccis pertectis; sporulis filiformibus, albis cum multis guttulis oleosis.
Hab. ad caules herbarum, Hoyerswerda.
3. **Rhabdospora Lebretoniana** Sacc. et Roum. Reliq. Libert. Ser. IV. 3142
n. 155 (*Septoria*). — Peritheciis innato erumpentibus, prominentibus, globoso-inæqualibus, brevissime papillatis, gregariis, subinde confluentibus, subcoriaceis, atris, $\frac{3}{4}$ mill. diam.; sporulis filiformibus, sursum conspicue hamatis, 20-24 \approx 1,5, continuis, hyalinis; basidiis sporulâ paullo brevioribus, filiformibus fasciculatis.
Hab. in ramis corticatis *Genistæ* in Arduennis (LIBERT).
4. **Rhabdospora phomatoides** Sacc. Mich. I. p. 175 (*Septoria*). — 3143
Maculis expallentibus, indeterminatis, cladogenis; peritheciis hinc inde gregariis, subtectis, e globoso lenticularibus, 100 μ . diam., pertectis; sporulis bacillaribus rectis curvulisve, utrinque obtusis, 15-25 \approx 1-1 $\frac{1}{2}$, pluriguttulatis hyalinis.
Hab. in ramulis *Genistæ tinctoriæ* in silva Montello Ital. bor. — β . **brachyspora** Sacc. Mich. II. p. 626: sporulis quam in typo brevioribus, nempe 10 \approx 1-1,5, guttulatis, hyalinis. In caule *Thesii humifusi*, Dessenens Galliæ (TERRY).
5. **Rhabdospora umbonata** (Pr.) Sacc. *Filospora umbonata* Preuss 3144
F. Hoyersw. n. 318. — Peritheciis parvis, atris, basi applanatis, insertis sub epidermide; ostiolo dein erumpente pertectis, ipso pseudostromate ambiente effuso; basidiis brevissimis; sporulis filiformibus, albis, flexuosis.
Hab. in ramis languidis *Spartii scoparii*, Hoyerswerda.
6. **Rhabdospora Cordobensis** (Sp.) Sacc. *Septoria Cordobensis* Speg. 3145
F. Argent. Pug. II. n. 115. — Maculis nullis vel pallide cinerescens indeterminatis; peritheciis globoso-lenticularibus, atris

subepidermicis, prominulis, poro papillato pertusis, contextu dense et indistincte parenchymatico, fuligineo-olivaceo; sporulis bacillaribus, utrinque obtusis, flexuosis, crassiusculis, 25-40 \approx 4-5, 4-magniguttulatis vel 3-pseudoseptatis, hyalinis.

Hab. in ramulis vivis Heterothalami spartioidis in sepibus prope Cordoba Argentinae.

7. **Rhabdospora Preussii** Sacc. *Filospora peritheciæformis* Preuss 3146
F. Hoyersw. n. 321. — Stromate villosio-furfuraceo, conferto, conico-acuto, tum circumscripto, aperto; basi latissime crustaceo-effuso et infra basin linea lignum penetrante circumscripto; peritheciis singulis vel plurimis irregulariter circinatis; pulpa sporularum albo-rosea; basidiis brevissimis; sporulis flexuosis filiformibus, albis.

Hab. sub epidermide ramorum Cytisi Laburni, Hoyerswerda.

8. **Rhabdospora breviuscula** (B. et C.) Sacc. *Septoria breviuscula* 3147
B. et C. North Amer. Fungi n. 450^{bis}. — Ramicola; peritheciis epidermide elevata conditis; sporulis allantoideis, 25 μ . longis.

Hab. in ramis Robiniae in Carolina inferiore.

9. **Rhabdospora Magnoliæ** (Thüm.) Sacc. *Cryptosporium Magnoliæ* 3148
Thüm. F. Austr. n. 1069. — Peritheciis epidermide primo tectis, demum liberis, vix erumpentibus, nigris; sporulis leniter curvatis, acuminatis.

Hab. in ramulis emortuis Magnoliæ Umbellæ in hortis, Tetschen Bohemiæ sept.

10. **Rhabdospora inæqualis** Sacc. et Roum. Reliq. Libert. Ser. IV. 3149
n. 156 (*Septoria*). — Peritheciis dense gregariis innato-erumpentibus globoso-depressis, valde inæqualibus, vix papillatis, atris, $\frac{1}{4}$ mill. diam.; sporulis fusoides, utrinque acutis, curvatis, continuis hyalinis, 15-18 \approx 3; basidiis filiformibus, prælongis, variis, 20-40 \approx 2,5, hyalinis.

Hab. in cortice levi Sorbi aucupariæ in Arduennis (LIBERT).

11. **Rhabdospora Caprifolii** Sacc. Mich. I. p. 174 (*Septoria*). — Ma- 3150
culis indeterminatis, expallentibus, cladogenis; peritheciis punctiformibus, initio epidermide velatis; sporulis filiformibus utrinque attenuatis, 35 \approx $1\frac{3}{4}$, obsolete septatis, hyalinis.

Hab. in sarmentis nondum emortuis Loniceræ Caprifolii in silva Montello Italiae bor.

12. **Rhabdospora ramealis** (Desm. et Rob.) Sacc. *Septoria ramealis* 3151
Desm. et Rob. Exsicc. n. 2189, *Ascochyta Ruborum* Lib. Exsicc. n. 244 (?). — Maculis cauliculis purpureis vel brunneo-rufis, dein

pallidescentibus albidis et aridis; peritheciis oblongis, convexis, plerumque subseriatis, $\frac{1}{4}$ - $\frac{1}{2}$ mill. diam., poro minuto pertusis, innatis, dein epidermide fissa, subprominulis; sporulis linearibus, 15-25 = 1, rectis, brevibus, 5-7-nucleolatis; cirro albo.

Hab. in sarmentis vivis Ruborum in Gallia et Belgio.

13. **Rhabdospora? persica** Sacc. Mich. I. p. 174 (*Septoria*). — Ma- 3152
culis nullis vel expallentibus indeterminatis, cladogenis; peritheciis oblongo-lenticularibus inæqualibus, gregariis, tectis dein prominulis, minutis, atris, pertusis, hyphis filiformibus conidiophoris cinctis; conidiis in hypharum apice acrogenis ovoideis, 10 = 4, 2-guttulatis, hyalinis; sporulis fusoides, sæpe curvulis 1-(rarius 2-3-) septatis, ad septa constrictis, 13-18 = 2-2,5, hyalinis.

Hab. in ramulis junioribus (quos enecat?) Persicæ vulgaris, Padova Italiæ bor. — Hyphis conidiophoris exstantibus, an status *Capnodii Persicæ* Turp.?

14. **Rhabdospora hamata** Schulz. et Sacc. Micr. Slav. n. 60, Schulz. 3153
Ill. Fung. Slav. n. 86. — Peritheciis, cortice secedente, superficialibus, globoso-conicis, inæqualibus, basi plana adnatis, $\frac{1}{6}$ mill. d.; sporulis filiformibus, apice hamatis, 25 μ . longis, hyalinis; basidiis obsolete.

Hab. in ramis Cydoniæ prope Vinkovce Slavoniæ. — «An *Phlyctæna?*».

15. **Rhabdospora ampelina** (Thüm.) Sacc. *Cryptosporium ampelinum* 3154
Thüm. Symb. Myc. Austr. I. n. 4. — Peritheciis minutis, primo tectis, demum epidermidem perforantibus, sæpe seriatis, subplanis, depresso-globosis, nigris; sporulis cylindræis, rectis, continuis, utrinque obtusiusculis, 10-14 = 1-1,5, hyalinis.

Hab. in sarmentis subputridis Vitis viniferæ, Klosterneuburg Austriæ.

16. **Rhabdospora Muggenburgii** (Pir.) Sacc. *Septoria Muggenburgii* 3155
Pirotta Funghi parassiti dei Vitigni p. 66. — Peritheciis minutis, sphericis, nigris, cortice immersis, demum erumpentibus; sporulis bacillari-fusiformibus, curvulis, dilute fuscis, 9-nucleatis, 46-63 = 3.

Hab. ad ramulos Vitis viniferæ in Slavonia.

17. **Rhabdospora tomipara** (Pass.) Sacc. *Septoria tomipara* Passer. 3156
F. Parm. Sept. n. 23. — Peritheciis minutis, atris, per epidermidem dealbatam erumpentibus; sporulis basidiis filiformibus longis fultis, bacillaribus, rectis vel vix flexuosis, tenuissimis, crassis, septulatis, in articulos mox secedentibus, hyalinis, 30 = 2,5 (continuis?).

Hab. in sarmentis emortuis *Vitis viniferæ*, Vigheffio Italiæ borealis.

18. **Rhabdospora Falx** (B. et C.) Sacc. *Septoria Falx* B. et C. No- 3157
tices of North Amer. Fungi p. 76, n. 446^{bis}, Sacc. Mich. II. p. 436,
Fungi ital. t. 1173. — Ramincola; maculis nullis vel expallenti-
bus; peritheciis dense gregariis, numerosissimis, majusculis, sphæ-
roideis, demum erumpentibus, brunneolis, circa ostiolum nigrescen-
tibus; sporulis in cirrum album longissimum expulsis, filiformibus,
utrinque vix attenuatis, falcatis, 18-20 \approx 2-2,5, continuis, eguttu-
latis, hyalinis; basidiis longiusculis, 12-16 \approx 2-2,5, rectis, hyalinis.

Hab. in ramis *Vitis* in Carolina inf. Amer. sept. (RAVENEL)
et in trunco ramisque vivis Citrorum in frigidariis horti botani-
ci patavini Italiæ bor. (O. PENZIG).

19. **Rhabdospora flexuosa** (Penz.) Sacc. *Septoria flexuosa* Penz. Fun- 3158
ghi Agrumic. in Sacc. Mich. II. p. 437, Fungi ital. t. 1174. —
Maculis nullis; peritheciis sparsis vel laxe gregariis, immersis, glo-
bosis, atro-brunneis; sporulis filiformibus, flexuosis, utrinque ob-
tusiusculis, continuis, eguttulatis, 25-28 \approx 1,5-2, hyalinis; basidiis
obsoletis vel nullis.

Hab. in cortice ramorum vivorum Citri Aurantii in frigi-
dariis horti botanici patavini Italiæ bor. (O. PENZIG).

20. **Rhabdospora Loniceræ** (C. et Ell.) Sacc. *Cryptosporium Loni-* 3159
ceræ C. et Ellis in Grevillea t. 99, f. 2. — Subgregaria, tecta,
epidermide elongato-fissa; peritheciis distinctis, atris; sporulis cy-
lindræis, arcuatis, utrinque obtusis, hyalinis, 25 μ . longis.

Hab. in ramis Loniceræ, New Jersey Amer. bor.

21. **Rhabdospora decipiens** (B. et C.) Sacc. *Septoria decipiens* B. et 3160
C. North Amer. Fungi n. 445. — Ramulicola; peritheciis demum
denudatis; sporulis tenuissimis, longissimis, flexuosis.

Hab. in ramulis dealbatis Loniceræ in Carol. inf. Amer. bor.

22. **Rhabdospora lentiformis** Schulz. et Sacc. Micr. Slav. n. 58, Schulz. 3161
Ill. Fung. Slav. n. 843. — Peritheciis lentiformibus, h. e. valde
depressis, subcutaneis, non vel vix erumpentibus, intus pallidis,
250-300 \approx 70; sporulis cylindricis, utrinque obtusiusculis, varie cur-
vatis, hyalinis, 24-34 \approx 2.

Hab. in ramis corticatis Fraxini excelsioris prope Viu-
kovce Slavoniæ.

23. **Rhabdospora myelostromatica** (Pr.) Sacc. *Septoria myelostro-* 3162
matica Preuss F. Hoyersw. n. 21. — Peritheciis sphæricis, cor-
neis, atro-fuscis, myelostromati insidentibus, ostiolis perforatis; spo-

rulis naviculiformibus, uniseptatis, albis; nucleo interno; basidiis nullis.

Hab. in cortice dejecto Fraxini, Hoyerswerda.

24. **Rhabdospora interrupta** (B. et C.) Sacc. *Septoria interrupta* B. 3163 et C. North Amer. Fungi n. 446. — Ramulicola; peritheciis sparsis; sporulis linearibus, flexuosis, multinucleatis, 50 μ . longis.

Hab. in ramulis Viburni Opuli in Pennsylvania (MICHENER).

25. **Rhabdospora Oleandri** Dur. et Mont. Fl. Alg. I. p. 593, Mont. 3164 Syll. crypt. p. 278. — Punctiformis; peritheciis membranaceis minutissimis, 70-100 μ . diam., innato-prominulis atris, intus massa ceracea albida fartis; sporulis fusiformibus obscure multiseptatis 20 \approx 2.

Hab. in ramo dejecto Nerii Oleandri ad Bone in Algeria.

26. **Rhabdospora imperialis** Sacc. Mich. I. p. 174 (*Septoria*). — Ma- 3165 culis cladogenis, oblongis, expallentibus; peritheciis gregariis, punctiformibus, sublenticularibus, e globoso depressis, 30 μ . d., ostiolo lato pertusis, contextu parenchymatico fuligineo; sporulis cylindraceis utrinque acutiusculis, curvatis, 16-18 \approx 2, continuis, hyalinis.

Hab. in ramulis Paulowniæ imperialis, Conegliano Italiæ borealis.

27. **Rhabdospora verruciformis** (B. et C.) Sacc. *Septoria verruciformis* B. et C. North Amer. Fungi n. 447. — Peritheciis majusculis rugosis; sporulis tenuissimis subrectis.

Hab. in ramis Cephalanthi, Alabama Amer. bor. (PETERS).

28. **Rhabdospora Passerinii** Sacc. *Septoria ramealis* Passer. F. Parm. 3167 Sept. n. 18, nec Desm. — Peritheciis carbonaceis epidermide, tandem rupta et decidua, tectis; sporulis cylindricis, utrinque vix attenuatis, rectis, 3-septatis, hyalinis, 30-32 \approx 2,5.

Hab. in ramis Negundinis fraxinifoliæ, Parma Ital. bor.

29. **Rhabdospora notha** Sacc. Mich. II. p. 103. (*Septoria*). — Peri- 3168 theciis innato-erumpentibus, corticulis, hinc inde in acervulos aggregatis, depresso-globosis, $\frac{1}{3}$ - $\frac{1}{4}$ mill. diam.; sporulis filiformi-arcuatis, 30 \approx 1, hyalinis, basidiis teretibus, 9-11 \approx 1, rectis suffultis.

Hab. in ramis corticatis Aceris Platanoidis, Saintes in Gallia (BRUNAUD). — Probabiliter spermogonium *Diaporthes Hystriçis* (Tode) Sacc. — Var. **Coryli** Sacc.: differt a typo sporulis rectiusculis, 30-35 \approx 0,7; basidiis longioribus. In ramis Coryli in Arduennis (LIBERT). — « An *Phlyctæna?* ».

30. **Rhabdospora fusicoccoides** Sacc. et Roum. Reliq. Libert. Ser. IV. 3169 n. 157 (*Septoria*). — Peritheciis subcutaneo-erumpentibus grega-

riis, globulosis, vertice subinde impressis, atris, $\frac{1}{2}$ mill. diam., intus ceraceis pallidis; sporulis fusoideis, utrinque acutis, curvis, 16-18 \approx 3, hyalinis, continuis; basidiis bacillaribus, sporulâ dimidio brevioribus, hyalinis.

Hab. in cortice levi Carpini (ut videtur) in Arduennis (LIBERT).

31. **Rhabdospora maculans** (B. et C.) Sacc. *Septoria maculans* B. 3170
et C. North Amer. Fungi n. 448^{bis}. — Maculis cladogenis plus minusque definitis, pallidis, obscurius limbatis; peritheciis punctiformibus gregariis; sporulis tenuissimis flexuosis, 25 μ . longis.

Hab. in ramulis tenellis Alni in Carolina inf. Amer. bor.

32. **Rhabdospora princeps** (B. et Br.) Sacc. *Septoria princeps* B. et 3171
Br. Ann. N. H. n. 940, t. 15, f. 11. — Peritheciis majusculis, depressis, papillatis, epidermide tectis; sporulis cylindricis, oblongis, 5-6-septatis, hyalinis, 50 μ . longis, in massulas varias erumpentibus.

Hab. in ramis Fagi, Batheaston Britannicæ.

33. **Rhabdospora Juglandis** (Schw.) Sacc. *Septoria Juglandis* Schw. 3172
B. et C. North Amer. Fungi pag. 76, *Sph. Juglandis* Schw. (ubi?). — Peritheciis gregariis, innatis, vix erumpentibus, atris; sporulis bacillaribus, sursum breviter hamatis.

Hab. in ramis Juglandis nigræ in Pennsylvania (MICHENER).
— «An *Phlyctæna?*»

34. **Rhabdospora Montagnei** Sacc., *Sphæria peregrina* Mont. et Fries 3173
Syll. p. 235. — Obtecta, sparsa, raro confluens; peritheciis cylindrico-conicis, truncatis, atris, opacis, spiraliter plicato-striatis, epidermide adnata tectis, ostiolo tandem poro pertuso; sporulis filiformi-linearibus curvulis.

Hab. in ramis Broussonetiæ papyriferæ, Lyon Gallicæ (MONTAGNE).

35. **Rhabdospora Populorum** Schulz. et Sacc. *Micr. Slav. n. 59*, Schulz. 3174
Ill. Fung. Slav. n. 14. — Peritheciis gregariis subsuperficialibus, globoso-conicis, punctiformibus, obtuse papillatis, 300 μ . d.; sporulis cylindricis, arcuatis, utrinque rotundatis, continuis hyalinis, 16-20 μ . longis, e strato prolifero lutescente oriundis; basidiis.....

Hab. in cortice duriore Populi, Eperjes Slavonicæ.

36. **Rhabdospora diaporthoides** Sacc. *Mich. II. p. 278 (Septoria)*. — 3175
Peritheciis gregariis, subepidermicis, globoso-lenticularibus, $\frac{1}{5}$ mill. diam., fuligineis; sporulis anguste fusoideis, curvatis, 37-38 \approx 2-3, pluriguttulatis, hyalinis.

Hab. in ramis salicinis prope Schio Ital. bor. (A. Rossi).

37. **Rhabdospora salicella** (B. et Br.) Sacc. *Septoria salicella* B. et Br. Ann. N. H. n. 746, t. XV. f. 7. — Subepidermica; peritheciis subglobulosis epidermide pustulatim elevata tectis; sporulis fusiformibus, 3-septatis, 30 μ . longis, cirris rubescentibus, irregularibus.
Hab. in ramulis salicinis in Belgio et Britannia. 3176
38. **Rhabdospora Pini** (B. et C.) Sacc. *Cryptosporium Pini* B. et C. North Amer. Fungi n. 396. — Peritheciis papilliformibus nigris cuticula tectis denique erumpentibus; sporulis angustis, curvatis, uniseptatis utrinque attenuatis, 70 μ . longis; basidiis sporulæ tertiam partem æquantibus. 3177
Hab. in cortice levi Pini, New England Amer. bor. (SPRAGUE).
39. **Rhabdospora pinea** Karst. Hedw. 1884, p. 58. — Peritheciis laxe gregariis, subinde cæspitosis vel sparsis, erumpenti-superficialibus, forma varia, ut plurimum rotundatis, scabriusculis, atris vel fusciscenti-atris, astomis, 0,4 mill. diam.; sporulis fusoideo-bacillaribus, curvulis vel subrectis, solito 3-septatis, chlorino-hyalinis, 22-40 \simeq 3-4. 3178
Hab. in ramis corticatis emortuis Pini silvestris, Mustiala Fenniæ.
40. **Rhabdospora pithyophila** Sacc. Mich. I. p. 175 (*Septoria*). — Maculis albicantibus v. obsoletis; peritheciis sparsis minutissimis erumpenti-superficialibus e globoso angulosis, atronitidis, denique collapsis; sporulis bacillari-fusoideis, falcatis, 30 \simeq 3-4, pluriguttulatis, hyalinis, basidiis filiformibus, 30 \simeq 1, fultis. 3179
Hab. in cortice ramorum Abietis, Conegliano in Italia bor. (SPGAZZINI).
41. **Rhabdospora Ephedræ** (Auersw.) Sacc., *Sphæropsis Ephedræ* Auersw. in Willk. Sertum Floræ Hisp. p. 171. — Peritheciis minutis, rugulosis, astomis, epidermidem tenuiter perforantibus; sporulis continuis, filiformi-cylindricis, leviter curvatis, utrinque rotundatis. 3180
Hab. ad ramos emortuos Ephedræ vulgaris, Valencia Hispaniæ.
42. **Rhabdospora ephedrina** Sacc. Misc. Myc. F. Gall. n. 2250 (*Sept. Ephedræ*). — Peritheciis gregariis, globoso-depressis, pertusis, 80-100 μ . diam., epidermide initio velatis; sporulis bacillaribus, curvis, utrinque obtusiusculis, 26-30 \simeq 1,5, 6-10-guttulatis, hyalinis. 3181
Hab. in ramulis Ephedræ, Rouen Galliæ (LETENDRE). — « An diversa a *Sept. Ephedræ*? ».
43. **Rhabdospora Kirghisorum** Sacc. *Septoria Ephedræ* Thüm. Fungi 3182

aliq. in terra Kirghis. n. IX. — Peritheciis parvulis emergentibus, demum pertusis, atris, inæqualiter globosis, dense gregariis absque macula; sporulis cylindræis, subarcuatis, utrinque acutiusculis, continuis, hyalinis, 20-24 \approx 3.

Hab. in ramulis Ephedræ distachiaæ prope Orenburg et Minussinsk Rossiaæ.

44. **Rhabdospora Lituus** (B. et Br.) Sacc. *Septoria Lituus* B. et Br. 3183
Ann. Nat. Hist. n. 744, t. XV. f. 5. — Subepidermica, pustulata; peritheciis depressis; sporulis filiformibus, apice curvatis, 37 μ . longis, basidia paullo superantibus.

Hab. in ramis levioribus in Britannia. — An *Phlyctæna*?

45. **Rhabdospora pustulata** (Pr.) Sacc. *Septoria pustulata* Preuss F. 3184
Hoyersw. n. 23. — Gregaria erumpens; peritheciis insertis, convexis atris, ostioli perforatis; basidiis nullis; sporulis naviculiformibus, in aliis oblongis, transverse septatis albis.

Hab. in cortice ramulorum dejecto, Hoyerswerda. — «An potius *Stagonospora*?».

46. **Rhabdospora Dianæ** (B. et C.) Sacc. *Septoria Dianæ* B. et C. 3185
North Amer. Fungi p. 445^{bis}. — Ramulicola; peritheciis majusculis apice complanatis; sporulis arcuatis longissimis, nucleolatis utrinque acutissimis.

Hab. in ramis plantæ arboreæ ignotæ, New England Amer. bor. (MURRAY).

47. **Rhabdospora fibriseda** (Berk.) Sacc. *Hendersonia fibriseda* Berk. 3186
Hook. Journ. 1853, p. 42, t. III. f. 10. — Peritheciis subglobosis, minutis fibrisequis in maculis albis sparsis, nigro-azureis; sporulis elongatis, flexuosis, utrinque obtusis, 37 \approx 5, obscure nucleolatis; basidiis brevibus, obtusis.

Hab. in ligno betulino, King's Cliffe in Anglia.

II. In Dicotyledoneis herbaceis.

48. **Rhabdospora Trifolii** (Ellis) Sacc. *Septoria Trifolii* Ellis Bull. 3187
Torrey botan. Club 1822, p. 74. — Peritheciis subcuticularibus, mox epidermide decedente, subdenudatis, gregariis, maculas elongatas minutas formantibus vel regulariter sparsis; sporulis fusiiformibus curvatis, granulosis, 20-38 \approx 5.

Hab. in caulibus emortuis Trifolii pratensis in Amer. bor.

49. **Rhabdospora allantoidea** (B. et C.) Sacc. *Septoria allantoidea* 3188
B. et C. North Amer. Fungi n. 442. — Caulicola, in macula elongata pallida insidens; sporulis leviter allantoideis, 15-12 μ . longis.

Hab. in caulibus Medicaginis sativæ in Pennsylvania (MICHENER).

50. **Rhabdospora hortensis** Sacc. Mich. II. p. 103 (*Septoria*). — Peri- 3189
theciis gregariis, epidermide velatis, globoso-depressis, pertusis, $\frac{1}{5}$
mill. diam.; sporulis bacillaribus, curvulis, utrinque obtusis, 30-
40 \approx 3, nubilosis vel 2-3-pseudo-septatis, hyalinis.

Hab. in caulibus cirrisque Pisi sativi prope Saintes Galliæ.

51. **Rhabdospora cæspitulosa** Sacc. Mich. I. p. 529 (*Septoria*). — 3190
Peritheciis in cæspitulos elevatos, epidermide cinctos, $\frac{1}{2}$ mill. d.,
nigros aggregatis, minutis, globulosis, contextu denso fusco-oliva-
ceo; sporulis filiformibus, flexuosis, 24-28 \approx 1, hyalinis, eguttula-
tis. basidiis bacillaribus subæquilongis, subsimplicibus suffultis.

Hab. in caule Pelargonii zonalis in calidariis Saintes Galliæ (BRUNAUD). — Habitus *Botryosph. Berengerianæ* De Not.

52. **Rhabdospora nicæænsis** (Thüm.) Sacc. *Septoria nicæænsis* Thüm. 3191
Contr. F. Litor. n. 344. — Maculis obsoletis; peritheciis densis-
sime gregariis vel interdum subsparis, mediis, epidermide primo
velatis demum erumpentibus, punctiformibus, nigris; sporulis ba-
cillaribus, utrinque truncatis, rectis vel leniter arcuatis, conti-
nuis, enucleatis, hyalinis, 10-12 \approx 2,5-3.

Hab. in caulibus subaridis Euphorbiæ nicæænsis, Pola in Littorali Istriæ.

53. **Rhabdospora Thümeniana** (Pass.) Sacc. *Septoria Thümeniana* 3192
Pass. Fungh. Parm. Sept. n. 108, *Leptostroma herbarum* f. *Eu-
phorbiæ exiguæ* Thüm. Fung. austr. n. 552. — Peritheciis spar-
sis punctiformibus, epidermide tectis, membranaceis fuscis; sporu-
lis filiformibus clavulatis, integris minute nucleolatis, 36-38 \approx 1,5-2.

Hab. in ramis, caulibus foliisque languidis et mox siccis Euphorbiæ exiguæ, Vigheffio prope Parmam Italiæ bor.

54. **Rhabdospora trichophila** Sacc. Mich. II. p. 528. — Peritheciis 3193
gregariis, erumpenti-superficialibus, globoso-conicis, 130 μ . diam.,
atro-nitidulis, pertusis; sporulis bacillaribus, flexuosis, 35-50 \approx 1 $\frac{1}{2}$,
minute guttulatis, hyalinis.

Hab. in caule tomentoso Althææ officinalis prope Rouen Galliæ (LETENDRE).

55. **Rhabdospora Tunicæ** Sacc. Mich. I. p. 193 (*Septoria*). — Ma- 3194
culis nullis; peritheciis gregariis, lenticulari-prominulis, puncti-
formibus, 60-70 μ . diam., pertusis; sporulis bacillaribus, 15-18 \approx
1 $\frac{1}{2}$ -1 $\frac{3}{4}$, curvulis, tenuiter 1-3-septatis, hyalinis.

Hab. in caulibus languidis Tunicæ Saxifragæ, Padova in Italia boreali.

56. **Rhabdospora nigrella** Sacc. Mich. I. p. 194 (*Septoria*). — Ma- 3195
culis obsoletis; peritheciis hinc inde dense aggregatis areolasque
atras elongatas efficientibus, punctiformibus, lenticularibus, 60-80
 μ . d., pertusis; sporulis bacillaribus, curvulis, 12-15 \approx 1 $\frac{1}{4}$, utrin-
que obtusiusculis, continuis, eguttulatis, hyalinis.

Hab. in caulibus Lychnidis dioicæ, Padova Ital. bor. —

β . **Antirrhini** Sacc. Mich. II. p. 103: sporulis 18-20 \approx 1 $\frac{1}{2}$, subcon-
tinuis, utrinque obtusiusculis; peritheciis hemisphæricis, pertusis,
100-120 μ . diam. In caule Antirrhini majoris prope Rouen
Galliæ (LETENDRE).

57. **Rhabdospora longissima** Sacc. Mich. II. p. 280 (*Septoria*). — Peri- 3196
theciis (?) subsparsis, innato-erumpentibus, globoso-depressis, atris,
astomis; sporulis fasciculatis filiformibus, tortuosis, 90-100 \approx 1, hya-
linis, continuis, basidiis furcatis, 15-16 \approx 1 $\frac{1}{2}$, suffultis.

Hab. in caule Arabidis in M. Grappa Ital. bor. (A. Rossi).

58. **Rhabdospora helleborina** Sacc. Mich. I. p. 529 (*Septoria Helle-* 3197
bori). — Peritheciis spuriis, subtectis, globulosis, $\frac{1}{8}$ mill. diam.,
fulvescentibus; sporulis filiformi-falcatis, 30 \approx 1 $\frac{3}{4}$, utrinque obtu-
siusculis, 3-5-nucleolatis, hyalinis.

Hab. in caule Hellebori fœtidi, Rouen in Gallia (LETENDRE).

59. **Rhabdospora Vitalbæ** Sacc. Mich. I. p. 193 (*Septoria*). — Ma- 3198
culis oblongis, obsolete dealbatis, indeterminatis; peritheciis gre-
gariis, punctiformibus, 70-80 μ . d., lenticularibus, pertusis; spo-
rulis bacillari-fusoideis, 12-15 \approx 3, rectis curvulisve, 2-nucleatis
simulateque 1-septatis, non vel vix constrictis hyalinis.

Hab. in caulibus adhuc vivis Clematidis Vitalbæ, Selva
Italiæ borealis.

60. **Rhabdospora pleosporoides** Sacc. Mich. I. p. 128 (*Septoria*). — 3199
Maculis nullis; peritheciis sparsis cladogenis, epidermide velatis,
globoso-depressis, $\frac{1}{2}$ mill. diam., ostiolo papillato brevi; perithecii
contextu celluloso fuligineo; sporulis filiformibus, rectis curvulisve,
38-50 \approx 1-1 $\frac{1}{2}$, continuis, obsolete guttulatis, hyalinis.

Hab. in caulibus herbarum majorum prope Berolinum et in
caule Gei urbani in Thiergarten Berolini (P. MAGNUS); in caule
Rumicum, Romæ (BAGNIS); in caule Chærophylli temulenti
Solidaginis Virgaureæ in Gallia (LETENDRE); in caulibus emor-
tuis Ranunculi aconitifolii in Helvetia (MORTIER). — β . **Bo-**
sciana Sacc.: sporulis brevioribus et crassioribus, 20 \approx 2-2 $\frac{1}{2}$. In

caule herbarum prope Paris (Bosc). — γ . **rubescens** Karst. Symb. Myc. XV. p. 151: peritheciis maculæ rubescenti insidentibus; sporulis obsolete guttulatis, 35-45 \approx 1,5-2. In caule emortuo Angelicæ silvestris prope Vasa Fennicæ. — Perithecia habitu et magnitudine *Pleosporæ herbarum*.

61. **Rhabdospora nebulosa** (Desm.) Sacc. *Septoria nebulosa* Desm. 3200
10 Not. 1843, p. 7. — Erumpens; maculis griseis, effusis vel elongatis; peritheciis minutissimis, 66 μ . diam., nigris, numerosissimis, dense sparsis v. in series longissimas parallelas aggregatis; ostiolo simplici pertuso; cirris tenellis albis; sporulis linearibus, rectis v. curvatis, 30-40 μ . longis, 10-15 nucleatis.

Hab. in caulibus siccis Apii petroselini in Gallia. — Var. **minor** Desm. 21 Not. 1853 p. 6: maculis elongatis, griseis. In foliis et caulibus siccis Barkhausiæ torosifoliæ in Gallia.

62. **Rhabdospora Scandicis** (Desm. et Rob.) Sacc. *Septoria Scandicis* 3201
Desm. et Rob. 21 Not. 1853, pag. 7. — Maculis oblongis, pallide brunneis vel viridescentibus; peritheciis numerosis, sparsis, subglobosis, innato-promiuulis, 125-150 μ . diam., epidermide tectis, dein subnudis, fuscis, depressis; cirris albis; sporulis elongatis linearibus, curvulis aut flexuosis, 30-40 \approx 1,6, indistincte nucleatis.

Hab. in ramis languidis fructibusque Scandicis Pectinis Veneris in Gallia.

63. **Rhabdospora Nebula** Sacc. Mich. I. p. 193 (*Septoria*). — Maculis 3202
nullis vel obsolete cinerescentibus, indeterminatis; peritheciis late densiuscule gregariis, punctiformibus lenticularibus, 50-60 μ . d., pertusis, atris; sporulis bacillaribus, curvulis, 15 \approx 1, obsolete 1-septatis, hyalinis.

Hab. in caulibus Heraclei Sphondylii, Vittorio Ital. bor. — β . **Anethi** Sacc. Mich. II. p. 103: sporulis linearibus, 12-15 \approx 1, continuis. In caulibus Fœniculi, Toulouse Gallicæ. — A *Septoria nebulosa* Desm. X. Notic. p. 7 probe diversa.

64. **Rhabdospora eupyrena** Sacc. et Thüm. Mich. II. p. 347 (*Septoria*). 3203
— Peritheciis gregariis epidermide velatis, dein liberis, globoso-depressis, papillatis, $\frac{1}{3}$ - $\frac{1}{2}$ mill. diam., contextu parenchymatico solidiusculis; sporulis bacillaribus vel acicularibus, rectiusculis, 90 $\frac{1}{2}$ -2, hinc inde guttulatis simulateque 8-10-septatis, hyalinis.

Hab. in caulibus putrescentibus Heraclei Sphondylii prope Lyon Gallicæ (THERRY). — A *Septoria pleosporoide* Sacc. differt imprimis sporulis multo longioribus.

65. **Rhabdospora polita** (Fr.) Sacc. *Sphæria polita* Fr. S. M. II. p. 3204

426, p. p.? *Sphæropsis polita* (Fr.) Fuck. Symb. p. 397. — Peritheciis cæspitose erumpentibus, nitidulis, subastomis; sporulis linearibus obscure multiseptatis, $70 \approx 2-3$, hyalinis.

Hab. in caulibus putrescentibus Chærophylli aurei in Jura Helvetiæ (MORTIER), et Heraclei Sphondylii in Saxonia (SCHUBERT). — Cfr. Syll. I. p. 464.

66. **Rhabdospora Brunaudiana** Sacc. Mich. I. p. 528 (*Septoria*). — Peritheciis laxè gregariis, subcutaneis, lenticularibus, 115μ . diam., pertusis, denique detectis; sporulis filiformibus, curvis, $25-30 \approx 1$, hyalinis, eguttulatis, basidiis clavatis crassiusculis sporula dimidio brevioribus suffultis. 3205

Hab. in caule Fœniculi officinalis Saintes Galliæ (BRUNAUD). — A *Sept. nebula* et *nebulosa* peritheciis majoribus, basidiorum præsentia etc. differt.

67. **Rhabdospora cauligena** Sacc. Mich. I. p. 529 (*Septoria*). — Peritheciis sparsis, tectis dein erumpentibus, lenticularibus, 100μ . diam., pertusis; sporulis prælongis, filiformibus, $50-60 \approx 1-1\frac{1}{2}$, 6-8-guttulatis, hyalinis. 3206

Hab. in caule Scandicis Cerefolii, Saintes Galliæ (BRUNAUD). — A *Sept. caulicola* Sacc. sporulis longioribus et angustioribus differt.

68. **Rhabdospora Sceptri** Karst. Symb. Myc. Fenn. XII. 1883, p. 112 et XIV. p. 151. — Maculis nullis; peritheciis sparsis, mediocribus vel minutis, e sphæroideo lentiformibus, demum solito (siccis) cupulato-depressis, epidermide tandem leniter rupta velatis, astomis, atris; sporulis simplicibus, bacillari-fusoideis, falcatis, sursum clavulatis, hyalinis, $21-35 \approx 2$, sterigmatibus brevissimis suffultis. 3207

Hab. in caulibus languidis Pedicularis Sceptri-carolini in Suboviguba Lapponiæ rossicæ; et in caule Dianthi superbi, Kola Lapp. rossicæ.

69. **Rhabdospora verbenicola** Sacc. Mich. I. p. 528 (*Septoria*). — Peritheciis laxè gregariis, sub-epidermico-erumpentibus, globoso-lenticularibus, $70-80 \mu$. diam., late pertusis; sporulis acicularibus, leniter curvis, $30 \approx 1$, hyalinis. 3208

Hab. in caule ramisque Verbenæ officinalis, Rouen in Gallia (LETENDRE) et in Italia bor.

70. **Rhabdospora hedeomina** (Peck) Sacc. *Septoria hedeomina* Peck 3209
33 Rep. St. Mus. p. 25. — Maculis nullis; peritheciis sparsis, minutis, $120-140 \mu$. diam., applanatis, inconspicuis, nigris; sporulis filiformibus, valde curvatis, hyalinis, $30-40 \mu$. longis.

Hab. in caulibus calycibusque emortuis *Hedeomatis pulegioidis*, Sandlake Amer. bor.

71. **Rhabdospora Origani** (Brun.) Sacc. *Septoria Origani* Brunaud 3210
 Revue Mycolog. IV. p. 225. — Maculis nullis; peritheciis sparsis, epidermide circum circa nigra tectis, dein prominulis, lenticularibus, nigris, lucidis, pertusis; sporulis cylindrico-bacillaribus, rectis vel curvatis, utrinque leniter acutis, pauci-guttulatis vel indistincte septatis, 35-42 \approx 3.

Hab. in caulibus emortuis *Origani vulgaris*, Saintes Galliæ.

72. **Rhabdospora Chloræ** Sacc. et Speg. Mich. I. p. 192 (*Septoria*). — 3211
 Maculis obsolete v. vage albescentibus; peritheciis gregariis, punctiformibus, globulosis, prominulis, subastomis, contextu densiuscule parenchymatico nigricante; sporulis filiformibus flexuosis, 35-40 \approx 1, 4-6-septulatis, hyalinis.

Hab. in foliis caulibusque *Chloræ perfoliatæ*, Conegliano Ital. bor. (SPEGAZZINI). — Ad *Septoriam* quoque multum accedit.

73. **Rhabdospora cynanchica** Sacc., Bomm. et Rouss. in litt. et herb. 3212
 — Peritheciis laxè gregariis, lenticularibus, pertusis, atris, $\frac{1}{7}$ mill. diam., epidermide velatis; sporulis cylindræis utrinque obtusiusculis, 4-6-guttulatis, curvulis, 25-30 \approx 3, hyalinis; basidiis brevibus paliformibus.

Hab. in caule *Cynanchi Vincetoxici* pr. Bruxelles Belgii.

74. **Rhabdospora peregrina** Dur. et Mont. Fl. Alg. I. p. 592, Mont. 3213
 Syll. crypt. p. 278, non *Sphæria peregrina* Mont. (= *Rhabdospora Montagnei*). — Epiphylla; peritheciis sparsis epidermide tandem fissa cingenteque tectis atris, 350 μ . diam., intus fuliginosis, puncto centrali albo; sporulis cylindricis brevissime pedicellatis rectis, utroque fine truncatis, 20 \approx 7,5.

Hab. in caule, ramis foliisque *Rubiæ peregrinæ* ad Philippeville in Algeria.

75. **Rhabdospora Wahlenbergii** (Speg.) Sacc. *Septoria Wahlenbergii* 3214
 Speg. F. Arg. Pug. IV. n. 296. — Caulibus et foliis infectis areolatis-cinereis; peritheciis hypodermicis, prominulis, lenticularibus, 90-100, densiuscule sparsis, membranaceis, contextu sinuoso-parenchymatico, fusco-fuligineo, circa ostiolum densissimo, subcarbonaceo; sporulis cylindræo-bacillaribus, utrinque obtusiusculis, 30-40 \approx 1,5, continuis, hyalinis.

Hab. ad caules foliaque *Wahlenbergiæ linearoidis* in aridis prope la Chacarita Argentinæ.

76. **Rhabdospora Solidaginis** (C. et E.) Sacc. *Cryptosporium Soli-* 3215

daginis C. et Ellis in Grevillea t. 99, f. 1. — Gregaria, exigua, brunnea, tecta; peritheciis subapplanatis, pertusis; sporulis numerosissimis, arcte fusiformibus, utrinque acutis, leniter curvulis, hyalinis, 30-35 μ . longis.

Hab. in caule *Solidaginis*, New Jersey Amer. bor.

77. **Rhabdospora Nubecula** Sacc. Mich. II. p. 103 (*Septoria*). — Peritheciis (spuriis) lenticularibus, punctiformibus, velatis, gregariis; sporulis fusoido-falcatis, 20 \approx 3 $\frac{1}{2}$, continuis, hyalinis, basidiis tetratis, 15 \approx 3, obtusiusculis suffultis. 3216

Hab. in caule *Solidaginis Virgaureæ*, sociâ *Sphærellâ nebulosâ* in Gallia australi.

78. **Rhabdospora helianthicola** (C. et H.) Sacc. *Septoria helianthicola* Cooke et Harkn. Grev. 1880, p. 6. — Peritheciis semiimmersis, atris, maculas nigras formantibus; sporulis rectis vel flexuosis, linearibus, achrois, 30-35 \approx 1. 3217

Hab. in caulibus *Helianthi* in California Amer. bor.

79. **Rhabdospora Cirsii** Karst. Symb. Myc. XV. p. 151. — Maculis nullis; peritheciis laxè gregariis subsuperficialibus, rotundatis vel sphæroideo-depressis, sæpe cupulatis, papilla minuta subinde elongata perithecium dimidium subæquante; basi hyphis parcis, fuscis obsessis, atris, 0,3-0,5 mill. diam.; sporulis filiformibus, utrinque attenuatis, rectis, raro curvulis, pluriguttulatis, 45-52 \approx 1-1,5. 3218

Hab. in caulibus emortuis *Cirsii* nec non *Solani tuberosi*, *Trifolii medii* et *Gnaphalii silvatici*, Vasa et Mustiala Fennicæ.

80. **Rhabdospora caulicola** Sacc. Mich. I. p. 192 (*Septoria*). — Maculis albicantibus vel obsoletis; peritheciis sparsis, minutis e globoso lentiformibus, solidiusculis epidermide tandem leniter rupta velatis, atris, latiuscule pertusis; sporulis bacillari-fusoides, sursum clavulatis, falcatis, 40 \approx 2 $\frac{1}{2}$, hyalinis, sterigmatibus brevibus, crassiusculis fultis. 3219

Hab. in caulibus languidis *Scabiosæ graminifoliæ* prope Arco (Trentino).

81. **Rhabdospora Centranthi** (Brun.) Sacc. *Septoria Centranthi* Brun. in Roum. Rev. Mycolog. 1881, Janv. p. 14. — Maculis nullis; peritheciis minutissimis, epidermide tectis, sparsis vel aggregatis, lenticularibus, nigris; sporulis bacillaribus, leniter curvatis, utrinque obtusis, non septatis, hyalinis, 18-20 \approx 2-3. 3220

Hab. in caulibus exsiccatis *Centranthi rubri*, Saintes in Gallia. — «An diversa a *Sept. Calcitrapæ* Thüm.?».

82. **Rhabdospora Calcitrapæ** (Thüm.) Sacc. *Sept. Calcitrapæ* Thüm. 3221
Contrib. Myc. Lusit. I. p. 24 (1878). — Peritheciis gregariis, cauliculis, minimis nigris, punctiformibus, globulosis, pseudomaculas irregulares nebulosas, indeterminatas, parvas, plus minusve lineares formantibus; sporulis cylindraceo-fusoideis, utrinque subrotundatis, arcuatis, simplicibus, v. obscure biseptatis, hyalinis, 14-18 \approx 2.
Hab. in caulibus emortuis *Centranthi Calcitrapæ*, Coimbra Lusitaniæ.
83. **Rhabdospora continua** (B. et C.) Sacc. *Septoria continua* B. et C. 3222
C. Not. of North Amer. Fungi p. 11, n. 444. — Caulicola; peritheciis æqualiter sparsis epidermide abditis, prominulis; sporulis filiformibus, rectiusculis; basidiis sporulâ dimidio brevioribus.
Hab. in scapis emortuis *Plantaginis majoris* in Pennsylvania (MICHENER).
84. **Rhabdospora petiolina** Penz. et Sacc. Fung. Mortol. n. 29, tab. IV. 3223
fig. 14 (*Septoria*). — Peritheciis laxè congregatis, majusculis, sub-superficialibus, sphæroideis, depressis, ostiolo maximo instructis, atris, mycelio atro-brunneo, toruloideo insidentibus, 200-220 μ . d., contextu parenchymatico; sporulis cylindraceis, haud attenuatis, utrinque rotundatis, æqualibus, continuis, in arcum flexis, 20-24 \approx 1,5-2; basidiis obsoletis.
Hab. in petiolis *Rhei* (?), Mortola Ital. bor. (O. PENZIG).
85. **Rhabdospora caudata** (Karst.) Sacc. *Sept. caudata* Karst. Hedw. 3224
1884, p. 38. — Maculis nullis; peritheciis gregariis, superficialibus, hemisphæricis, siccitate vulgo depressis, immo depresso cupulatis, corrugatis, astomis vel ostiolo obsolete papillato, tenuissimis, contextu celluloso fuligineo-atris, 0,2 mill. diam.; sporulis fusoideo-falcatis, guttulatis, 15-25 \approx 2, sursum in setulam circiter 15 μ . longam productis, hyalinis.
Hab. ad caules siccos in Beeren Eiland (TH. FRIES).
86. **Rhabdospora herbarum** (Pr.) Sacc. *Septoria herbarum* Preuss F. 3225
Hoyersw. n. 22. — Peritheciis gregariis, immersis, convexis, minutis, atris; ostiolis perforatis; sporulis elongatis tenuiseptatis, albis.
Hab. ad caules herbarum frequens, Hoyerswerda.

PHLYCTÆNA Mont. et Desm. Ann. Sc. Nat. 1847, p. 16. (Etym. *phlyctæna* bulla). — Perithecia subcutanea, interdum erumpentia, globoso-oblonga, subhysterioideo-dehiscencia, fere incompleta. Sporulæ fusoideo-elongatæ vel filiformes, basidiis variis suffultæ, continuæ, hyalinæ. — Species nonnullæ ad *Rhabdosporam* nunc du-

ctæ, ubi perithecia plenius innotescant, rectius forte huc transferendæ forent.

1. **Phlyctæna vagabunda** Desm. Ann. Sc. Nat. 1847, p. 16, *Ascochyta* 3226
caulium Lib. Exs. n. 248, *Phoma Tami* Lamy in Moug. Stirp.
n. 1086. — Maculis nullis vel minutissimis, brunneis fibrillosis;
pseudo-peritheciis numerosis, sparsis; sporulis hyalinis, curvatis,
elongatis, linearibus, obtusiusculis, 7-9-guttulatis, 18-25 μ . longis.
Hab. in caulibus herbaceis emortuis e. g. *Phytolaccæ*, *Tami*
ecc. in Gallia, Belgio, Britannia et America boreali.
2. **Phlyctæna septorioides** Sacc. *Septoria phlyctænoides* B. et C. 3227
North Amer. Fungi n. 441. — Caulicola, in macula alba elongata
insidens; peritheciis hysteriiformibus; sporulis filiformibus, sursum
curvatis, hyalinis, circ. 25 μ . long.
Hab. in caulibus *Phytolaccæ* *Pensylvanicæ*, New Eu-
gland Amer. bor. (MICHENER).
3. **Phlyctæna orthospora** B. et C. North Amer. Fungi n. 472. — Pu- 3228
stulis oblongis fusco-marginatis, epidermide tectis; sporulis oblon-
gis, 6,2 μ . longis.
Hab. in *Phytolacca* in Pennsylvania (MICHENER). — «An
potius *Phomæ* species?».
4. **Phlyctæna complanata** (B. et C.) Sacc. *Septoria complanata* B. 3229
et C. North Amer. Fungi n. 443. — Caulicola; peritheciis gran-
diusculis, subplanis, hysteriiformibus; sporulis tenuissimis, subre-
ctis, longissimis.
Hab. in caulibus *Polygoni Virginici* in Pennsylvania (Mi-
CHENER).
5. **Phlyctæna Buffoniæ** Mont. Cent. VI. n. 43, in Ann. 3, XI. p. 52, 3230
et Syll. n. 1023. — Maculis nullis; pseudo-peritheciis dimidiatis
minutis, orbicularibus convexis, poro amplo pertusis, fuscis tandem
circumscissis; nucleo gelatinoso; sporulis fusiformibus, hyalinis gut-
tulatis, 20 \approx 4.
Hab. in foliis calycinis *Buffoniæ* annuæ in agro ligeri-
cino, circa Mende Galliæ (BOUVIN).
6. **Phlyctæna phomatella** Sacc. Mich. I. p. 528 (*Septoria*). — Peri- 3231
theciis dense gregariis, tectis, vix erumpentibus, inæqualiter glo-
bulosis, $\frac{1}{4}$ mill. diam. subincompletis; sporulis filiformi-uncinatis,
20 \approx 1, hyalinis, basidiis brevioribus acicularibus suffultis.
Hab. in ramis corticatis *Ulmi campestris* prope Rouen in
Gallia (LETENDRE). — β . **Symphoricarpi racemosæ** Sacc. Mich.
Fungi Gall. n. 872: sporulis 20-22 \approx 1, basidiis 8-10 \approx 1. In ramis

ejusdem Saintes (BRUNAUD). — Spermogonium videtur *Diaporthes Ryckholtii*.

7. **Phlyctæna Gossypii** Sacc. Mich. II. p. 144 (*Septoria*). — Peritheciis globosis, depressis, $\frac{1}{3}$ mill. diam., subtectis, contextu parenchymatico pallide fusco; nucleo griseo; sporulis filiformibus, sursum uncinatis, 25-30 \approx 1-1 $\frac{1}{4}$, hyalinis, basidiis bacillaribus brevioribus suffultis.

Hab. in caulibus Gossypii in Carolina (RAVENEL). — *Septorice phomatellæ* Sacc. proxima.

8. **Phlyctæna Lappæ** (Karst.) Sacc. *Septoria Lappæ* Karst. Hedw. 3233 1884, p. 58. — Maculis nullis; peritheciis sparsis vel laxe gregariis, subcutaneis, oblongatis, applanatis, poro pertusis, 0,2 mill. d.; sporulis fusoido-bacillaribus, inferne falcato-curvatis, rarius flexuosis vel subrectis, 18-24 \approx 1.

Hab. in caulibus emortuis Lapparum in Fennia australi.

9. **Phlyctæna arcuata** Berk. North Amer. Fungi n. 471. — Pustulis 3234 minutis, convexiusculis epidermide tectis; sporulis filiformibus, apice hamatis, 25 μ . longis.

Hab. in caule emortuo Solidaginis, New England Americæ borealis (RUSSELL).

10. **Phlyctæna simulans** (B. et C.) Sacc. *Septoria simulans* B. et C. 3235 North Amer. Fungi n. 442^{bis}. — Caulicola in macula elongata pallida insidens; peritheciis hysteriiformibus; sporulis linearibus curvis, 25 μ . longis.

Hab. in caulibus Nabali, New England Amer. bor.

11. **Phlyctæna Johnstonii** B. et Br. Ann. N. H. n. 639*. — Maculis 3236 latiusculis; pseudo-peritheciis brunneis; sporophoris flexuosis, longis; sporulis elongatis, curvatis, medio nodulosis, hinc inæqualibus.

Hab. in caule emortuo Senecionis Jacobææ, Berwick Britannicæ. — Sporulæ multoties longiores quam in *Ph. vagabunda*.

12. **Phlyctæna Pseudophoma** Sacc. Mich. I. p. 528, F. ital. t. 1176 3237 (*Septoria*). — Peritheciis laxe gregariis, epidermide velatis, demum erumpentibus, oblongo-ellipticis, depressis, aterrimis, 360-400 \approx 280-300 μ . d.; sporulis filiformibus, tenuibus, apice curvatis, continuis, hyalinis, 24-28 \approx 1-1,5.

Hab. in ramis corticatis Populi albæ in Gallia (LETENDRE), et in cortice ramisque decorticatis Citrorum, in frigidariis r. horti botanici patavini (O. PENZIG). — Forte spermogonium *Diaporthes* cujusdam.

13. **Phlyctæna? hysterioides** (Pr.) Sacc. *Filospora hysterioides* Preuss 3238

F. Hoyer sw. n. 320. — In ligno superne, stroma sine subiculo, atrum, late tectum, interne cavernulis, perithecium incompletum infra obducens tumescens et rima dehiscens; nucleis gelatinosis fusco-roseis erumpentibus, globosis; sporulis longissimis, filiformibus.

Hab. in ligno Salicis (in circulo doliari), Hoyerswerda. — An *Cytosporina*?

14. **Phlyctæna dissepta** Berk. Fl. New Zeal. p. 194. — Linea nigra 3239
geographica cincta; peritheciis spuriiis convexis, poro pertusis (ab epidermide atrata formatis?); sporulis tenuissimis, elongatis, filiformibus, apice curvis, 42-46 μ . diam; sporophoris filiformibus.

Hab. in caulibus emortuis Rhipogoni, Titiokura Novæ Zealandiæ (COLENZO).

15. **Phlyctæna Smilacis** Cooke F. Texas n. 141. — Tecta, minuta, 3240
brunnea, dense gregaria, leniter elevata; sporulis filiformibus, elongatis, ad apicem curvulis, 20-25 μ . longis.

Hab. in caule Smilacis, Houston Texas Amer. bor.

GELATINOSPORIUM Peck 25 Rep. on the St. Mus. p. 48 (Etym. *gelatina* et *spora*). — Perithecia submembranacea, erumpentia, apice latiuscule dehiscencia, in sicco rugosa. Sporulæ elongatæ, filiformes, continuæ. — Perithecia madore apice hiant ostenduntque nucleum albidum gelatinosum sporularum. — «An genus satis diversum a *Micropera*?»

1. **Gelatinosporium betulinum** Peck 25 Rep. St. Mus. New York. p. 84. 3241
— Peritheciis majusculis, cæspitose-aggregatis, prominentibus per epidermidem transverse fissam erumpentibus, vertice irregulariter hiantibus, nigris; sporulis hyalinis, subfiliformibus, apicibus acuminatis, nucleatis, 32-40 μ . longis.

Hab. in ramis emortuis Betulæ lentæ, Greenbush Amer. bor. — Perithecia plerumque bina v. terna in quoque acervulo, quæ in sicco corpus irregulare unicum conflare videntur.

2. **Gelatinosporium abietinum** Peck 25 Rep. p. 84. — Peritheciis mi- 3242
nutis, sparsis, nigris; sporulis maxime elongatis, subfiliformibus, utrinque cuspidatis, curvis, pluriguttulatis, subhyalinis, 65-75 μ . longis.

Hab. in ramis emortuis Abietis canadensis (*Hemlock tree*), Greenbush Amer. bor.

SPHÆROGRAPHIUM Sacc. (Etym. quasi *Sphaerocema* ad *Graphium nutans*). — Perithecia verticalia, conica vel spiniformia, rigidula

atra. Sporulæ fili-fusoideæ, continuæ, hyalinæ, sæpius stipitellatæ guttulatæque. — Num omnes species huc vere spectent, vel (si sporulæ exogenæ) ad genus stilbeum *Harpographium*, adhucdum dijudicare nequeo.

1. **Sphærographium Loniceræ** (Fuck.) Sacc. *Sphæronæma Loniceræ* 3243
Fuck. Symb. pag. 275. — Peritheciis spuriis, sparsis, 1 mill. altis, acicularibus, acutis, atris, globulo albo minutissimo terminali; sporulis angustissimis, fusoideis, curvatis, 4-guttulatis, $32 \approx 2$, hyalinis.

Hab. in ramis subviviis Loniceræ Xylostei et alpigenæ in Jura Helvetiæ, sociâ *Dothiorâ Loniceræ*.

2. **Sphærographium squarrosum** (Riess) Sacc. *Sphæronæma squarrosum* 3244
Riess Bot. Zeit. 1853, p. 133, t. III. f. 36-39. — Peritheciis atris, subcylindricis, sursum attenuatis, squarroso-squamulatis, ore fimbriato pallidiore; sporulis fusiformibus utrinque acutis, curvatis, pellucidis, 30 μ . longis.

Hab. in cortice adhuc virente ramulorum Loniceræ Xylostei, Allendorf Germaniæ.

3. **Sphærographium capillare** (Ell. et Harkn.) Sacc. *Sphæronæma capillare* 3245
Ell. et Harkn. Bull. Torr. Cl. 1881, p. 51. — Peritheciis capillaribus, nigris, $2\frac{1}{2}$ mill. alt., basi apiceque tenuiter incrassatis; globulo terminali pallido, conidiis cylindræis, obtusis, curvulis v. flexuosis, plurinucleatis, 25-37 \approx 3,5-5.

Hab. in cortice ramorum Castaneæ, Bethlehem in Pennsylvania Amer. bor.

4. **Sphærographium hystricinum** (Ell.) Sacc. *Sphæronæma hystricinum* 3246
Ellis in Thüm. Myc. univ. n. 787 et in Bull. Torr. 1876, p. 106. — Peritheciis dense gregariis, cylindrico-subulatis, transverse rugosis, rufo-fuscis, globulo minuto, hyalino cum levi rufi coloris tinctura; sporulis angustis arcuatis, utrinque acuminatis, 3-4-nucleatis, circiter 25 μ . longis, hyalinis, cum stipite vero sæpe adhærente, 35 μ . longis.

Hab. in truncis ramulisque emortuis Azaleæ viscosæ, New Jersey Amer. bor. (J. B. ELLIS).

5. **Sphærographium echinatum** (B. et C.) Sacc. *Sphæronæma echinatum* 3247
B. et C. North Am. F. n. 398. — Peritheciis globosis; collo longo processibus echiniformibus subverticillatis ornato; sporulis filiformibus curvulis.

Hab. in ramis Rhododendri in montibus New York Americæ borealis.

6. **Sphærographium stellatum** (Ellis) Sacc. *Sphæroncema stellatum* 3248
Ellis Torr. Cl. 1876, p. 107. — Peritheciis cæspitosis, ovato-conicis acutis, apice rufescentibus; sporulis elongatis, arcuatis vel sigmoideis, 35-38 \approx 5, plurinucleatis.

Hab. in ramis emortuis Ilicis glabræ, South Jersey in America bor. — Habitus *Sph. cæspitosi*, sed sporulæ prorsus diversæ.

7. **Sphærographium seriatum** (B. et C.) Sacc. *Sphæroncema seriatum* 3249
B. et C. North Am. F. n. 405. — Peritheciis majoribus subcylindricis transversim seriatis erumpentibus, apice collapsis, contextu exteriori rufo-brunneo, interiori fusco-albido; sporulis filiformibus undulatis e strato pallide brunneo oriundis, hyalinis, basidio fuscidulo triplo longioribus.

Hab. in ramis corticatis Betulæ, Massachusetts Amer. bor. (SPRAGUE).

8. **Sphærographium Fraxini** (Peck) Sacc. *Sphæroncema Fraxini* Peck 3250
Rep. on St. Mus. New York. — Peritheciis cortice interiori nidulantibus, epidermide tectis, ostiolo erumpente longo, rigido, spiniformi; globulo albido; sporulis longis, angustis, curvis v. flexuosis, utrinque tenuatis, multinucleatis, hyalinis, 50-60 μ . longis.

Hab. in ramis emortuis Fraxini americanæ, socia *Tympanide Fraxini*, cujus forte spermogonium.

9. **Sphærographium Microperæ** (Cooke) Sacc. *Sphæroncema Microperæ* 3251
ræ Cooke in Grevillea. — Peritheciis in pustulis *Microperæ* nidulantibus, elongatis, supra attenuatis, rectis vel curvulis, atris; sporulis arcte fusiformibus, curvulis, continuis, hyalinis, 40 μ . long.

Hab. in pustulis *Microperæ*, Darien in Georgia Amer. bor.

CORNULARIA Karst. Hedw. 1884, p. 57 (sub nom. *Corniculariella*) (Etym. a *cornu*). — Perithecia e basi bulbosa v. æquali teretia v. tereti-clavata, superficialia, cæspitosa, raro simplicia, contextu membranaceo carbonaceo. Sporulæ fusoido-bacillares, vulgo falcatae, septatae, hyalinæ v. flavidæ. — Nisi sporulæ endogenæ, ad stilbeum genus *Arthrobotryum* valde accedit.

1. **Cornularia Abietis** Karst. Hedw. 1884, p. 58. — Peritheciis teretibus v. cylindræo-clavatis, clavula subinde rotunda, superficialibus, cæspitosis v. discretis, atris, nitidulis, fragilibus, 1-1½ mill. alt.; sporulis fusoido-bacillaribus, utrinque acutatis, falcatis, rarius rectis v. flexuosis, 7-septatis, chlorino-hyalinis v. hyalinis, 50-72 \approx 6-8.

Hab. in ramis corticatis emortuis *Abietis excelsæ*, *Mustia Fennicæ*, sociâ *Cytospora Abietis*.

2. **Cornularia Boudieri** (Rich.) Sacc. *Sphæronæma Boudieri* Ch. 3253
Rich. in Rev. Myc. II. p. 92, t. VI, f. 6. — Peritheciis gregariis, vix 1 mill. long. nigris, superne in collum fimbriatum productis et radiatim globulum cingentibus, medio ventricosis, basi angustatis; globulo sporulis aciculari-fusiformibus, diametro suo plus quam 10-plo longioribus curvulis, tenuiter 3-7-septatis non constrictis, gelatinæ immersis composito.

Hab. in cortice *Pinorum* pr. *Montmorency Gallicæ* (BOUDIER).

3. **Cornularia Persicæ** (Schw.) Sacc. *Sphæronæma Persicæ* (Schw.) 3254
Ell. N. A. F. n. 946, *Sporonyla Persicæ* Schw. Car. p. 99. — Peritheciis spiniformibus e basi bulbosa erumpente, nigris, rigidulis, globulo ovato-globoso, compacto; colli perithecii contextu e cellulis filiformibus brunneis conflato; sporulis ex ejusmodi cellulis interioribus enatis anguste fusoides, 7-8-septatis guttulatisque, 60-70 = 3-3,5, olivaceis, apice pallidioribus.

Hab. in ramis *Cerasi* et *Persicæ* in *America boreali*.

4. **Cornularia macrospora** (B. et C.) Sacc. *Sphæronæma macrosporum* B. et C. North Am. F. n. 404^{his}. — Subcylindricum, basi parce dilatatum; sporulis longis filiformibus flexuosis, 7-8-septatis radiantibus coronatum.

Hab. in ramis *Robinicæ* in *Carolina inf. Amer. bor.* — Perithecium (stroma?) leniter basi incrassatum, e cellulis elongatis formatum.

5. **Cornularia hispidula** (Ellis) Sacc. *Sphæronæma hispidulum* Ellis 3256
Torr. Cl. 1876, p. 106. — Peritheciis sparsis, lineari-clavatis, acutis, nigris, sub vitro minute hispido-pubescentibus, 1-1½ mill. alt.; globulo albido; sporulis lineari-lanceolatis, curvulis, 8-10-septatis, 60-65 = 5, pallide flavis, articulis extimis hyalinis.

Hab. in ramis emortuis *Nyssæ multifloræ* in *South Jersey Americæ borealis*.

6. **Cornularia sphæroidea** (Ell.) Sacc. *Sphæronæma sphæroideum* 3257
Ell. Bull. Torr. Bot. Cl. 1881, p. 65. — Initio epidermide tectum, setulis brunneis, asperis vestitum, dein erumpens depilatum, sed rugulosum, brassicæ seminis magnitudine, ostiolo subconico, mox collabescente; sporulis clavato-fusoides, leniter curvis, tenuiter 3-septatis, apice obtusis, deorsum tenuatis, stipitellatis, 35-38 μ . long. (cum stipite).

Hab. in caulibus herbaceis, *Pleasant Valley, Utah Amer. bor.*

7. **Cornularia microscopica** (Fuck.) Sacc. *Sphæria microscopica* 3258
 Fuck. Symb. p. 275, an Fries. — Peritheciis sparsis subsuperficialibus, minutissimis, rostro perithecio sublongiore, aciculari, 164 \approx 66 (fungo integro); sporulis anguste fusoideis, rectis curvulise obscure 8-10-septatis, 24 \approx 2-3, hyalinis.

Hab. in ramis putridis Populi italicæ, sociâ *Dothiorâ mutilâ* Fuck., cujus pycnidium, teste Fuck.

8. **Cornularia Viburni** Sacc. *Cenangii Viburni* pycnidium Fuck. 3259
 Symb. p. 272. — Peritheciis sparsis cæspitosisve, elongato-conicis, subinde parum ventricosis, acutis, quandoque ramosis, lineam longis, aterrimis, subtilissime perforatis, globulo sordido, minuto coronatis; sporulis anguste fusiformibus, curvatis, 1-3-septatis, septis obscuris, sed distinctis, multiguttulatis, 68 \approx 4 (medio), hyalinis.

Hab. in ramis corticatis Viburni Opuli in Rhenogovia.

ERIOSPORA B. et Br. Ann. N. H. n. 438, Berk. Outl. p. 323 (Etym. *erion* lana, et *spora*). — Stroma depressum intus multicellulare, loculi subglobosi; sporulæ fasciculato-quaternatæ v. senæ, filiformes, continuæ, hyalinæ, basidio brevi communi suffultæ, tandem per orificium commune ejectæ.

1. **Eriospora leucostoma** B. et Br. Ann. N. H. n. 438, p. 17, t. XI. 3260
 f. 1. Fuck. Symb. p. 398. — Maculis piceo-atris; stromate depresso, effuso, tenui, marginali, vix 2 mill. lat., centro ore punctiformi, albo-limbato, pulverulento dehiscente; loculis numero variis subglobosis v. mutua pressione subcompressis; sporulis fasciculato-quaterno-senis, filiformibus, continuis, hyalinis, basidio communi brevi crassiusculo suffultis, mox secedentibus et per os commune expulsis.

Hab. in foliis emortuis Typhæ, Caricis silvaticæ et strictæ in Britannia et Rhenogovia.

DILOPHOSPORA Desm. Ann. Sc. nat. 1840, pag. 67 (Etym. *dis* bis, *lophos* crista, et *spora*). — Perithecia globulosa, pertusa, sæpius crustula stromatica tecta. Sporulæ cylindræ, continuæ, hyalinæ, utrinque setuloso-penicillatæ.

1. **Dilophospora Graminis** Desm. Ann. Sc. nat. 1840, p. 67, t. I. f. 2, 3261
 Richon, Not. *Dilophosp.* cum icone. — Peritheciis minutis, crustula stromatica nigricante tectis, seriatis, subconnatis, globosis, stromate immersis, ostiolis punctiformibus, nigris, disco albido; sporu-

lis cylindricis, $10 \approx 1,7-2$, hyalinis, utrinque truncatis setulasque divergentes, 4-6 filiformes, subinde furcatas, 4-5 $\approx 0,5$ gerentibus.

Hab. in vaginis et spicis Alopecuri agrestis, Tritici, Festucæ ovinæ in Gallia, Britannia, Belgio.

2. **Dilophospora Geranii** Schröt. Nord. Pilz. p. 16. — Peritheciis gregariis, subepidermicis erumpentibusque, globoso-depressis, papillulatis, 0,3 mill. diam., nigris; sporulis oblongo-cylindræis, utrinque rotundatis, 14-17 $\approx 4,5-6$, continuis, hyalinis, infra apicem setulam 2-3-dichotomo-ramosam, teneram gerentibus, ramulis patulis, recurvis sporulam duplo triplove superantibus.

Hab. in petiolis emortuis Geranii silvatici, Quickjok et Wallibacken Lapponiæ suecicæ. — «Videretur fere *Pestalozziella* perithecio instructa.»

CYTOSPORINA Sacc. Mich. II. p. 263 (Etym. a *Cytospora*, cui affinis), *Dumortiera* West. Bull. Not. V. p. 29, nec Nees. — Stroma valseum, verruciforme v. effusum, corticale v. lignicolum; peritheciis subimmersis, ostiolis variis sæpe emergentibus. Sporulæ filiformes, curvulæ, hyalinæ, continuæ, basidiis variis suffultæ. — Hoc genus se habet præ *Cytospora* ut, inter Melanconieas, *Libertella* præ *Næmospora*.

1. **Cytosporina ludibunda** Sacc. Mich. I. p. 519 (*Cytospora*). — Stromatibus subcutaneis variis nigro-cinctis, pluricellularibus, aureofarctis; sporulis filiformi-hamatis, 25-30 ≈ 1 , hyalinis, basidiis acicularibus simpliciter verticillatis, 15-20 ≈ 2 , hyalinis suffultis, in cirros flavo-roseos protrusis.

Hab. in ramis Robiniæ Ulmi et Pruni in Italia et Gallia.

2. **Cytosporina Siliquastri** (West.) Sacc. *Dumortiera Siliquastri* West. 3264 Not. VIII. p. 6. Kickx Fl. crypt. Fl. I. p. 447. — Stromate effuso, *Eutypæ scabrosæ* analogo; peritheciis sphaericis, nigris, stromato ligneo immersis, ostiolis brevibus, papillatis; sporulis filiformibus, utrinque attenuatis, vehementer curvatis, hyalinis, 15 $\approx 1,5$; cirro flavo-carneo.

Hab. in ligno denudato Cercidis Siliquastri in Belgio (WESTENDORP).

3. **Cytosporina rostrata** (West.) Sacc. *Dumortiera rostrata* West. 3265 Not. V. p. 29, tab. I. f. 14. — Stromate effuso, atro; peritheciis immersis, ostiolis rostratis; sporulis fusoido-bacillaribus semilunari-arcuatis, utrinque attenuatis, 3-4-guttulatis, in cirros carneos, tortuosos dein ejectis.

Hab. in ligno putri Robiniæ (?) pr. Mons in Hollandia.

4. **Cytosporina millepunctata** Sacc. *Cryptosphæricæ millepunctatæ* 3266
st. spermog. Nits. Pyr. Germ. p. 160, Sacc. Syll. I. p. 182. — Stromatibus subglobosis, minutis, subunilocularibus, pallidis, sparsis, subcutaneis; sporulis subsessilibus, filiformi-cylindricis, longis hyalinis, varie curvatis, tandem in cirros pulchre roseos v. luteos protrusis, 40-48 \approx 1.

Hab. in ramis emortuis Fraxini excelsioris in Germania.

5. **Cytosporina myriocarpa** Sacc. *Cryptosphæricæ myriocarpæ* st. 3267
sperm. Nits. Pyr. Germ. p. 159. Sacc. Syll. I. p. 183. — Stromatibus cavernulas sistentibus minutissimas, simplices, suborbiculares vel ellipticas, pallidas sub peridermio translucido cortici vel stromati juniore immersis, sparsis; sporulis filiformibus, exilissimis, utrinque acutiusculis, hyalinis, curvulis, subsessilibus, 24 \approx 1.

Hab. in ramis exsiccatis Fagi silvaticæ prope Münster Germaniæ.

6. **Cytosporina stellulata** Sacc. *Eutypellæ stellulatæ* st. sperm. Nits. 3268
Pyr. Germ. p. 165. Sacc. Syll. I. p. 149. — Stromatibus multilocularibus, valsoideis, crustæformibus; sporulis filiformi-cylindricis, curvatis, 20-25 μ . longis, tandem in cirros aureos protrusis.

Hab. in ramis Ulmi campestris et U. effusæ in Suecia et in Germania.

7. **Cytosporina cerviculata** Sacc. F. V. Ser. IV. p. 16 (*Cytospora*) 3269
Eutypellæ cerviculatæ st. sperm. Sacc. l. c. et Syll. I. p. 146. — Stromatibus valsoideis, extus nigris, rugosis (non vero ostiolatis) intus fusco-rubrescentibus, minute plurilocularibus, loculis subglobosis; sporulis filiformibus, arcuatis, 20-22 \approx 0,7, sterigmatibus cylindræis sursum attenuatis 20 \approx 1 fasciculatis suffultis, tandem in cirros rubellos protrusis.

Hab. in ramis crassioribus Carpini Betuli in Italia bor.

8. **Cytosporina milliaria** Sacc. *Eutypæ milliariæ* st. sperm. Nits. Pyr. 3270
Germ. 149. — Stromatibus minutissimis, punctiformibus, pallidis, subglobosis, unilocularibus, ligni strato supremo leviter immersis, tandem poro vel rimula apertis; sporulis filiformibus, varie curvatis, 24 \approx 1.

Hab. in ligno dario Quercus, Fagi, Staphyleæ in Suecia et Germania.

9. **Cytosporina aspera** (Wallr.) Sacc. *Cytospora aspera* Wallr. Fl. 3271
crypt. 751 (?) Sacc. Mich. II. p. 264. — Stromatibus subcutaneis, corticem nonnihil elevantibus, vix perforantibus, subcircularibus,

plurilocularibus, nigris; sporulis cylindræis leniter curvis, 18-20 \approx 1½, hyalinis, quandoque 1-2-guttulatis, basidiis brevibus, tere-
tibus fasciculatis suffultis; cirris non visis.

Hab. in ramis corticatis Fagi silvaticæ in silva Cansiglio Ital. bor. et in Germania. — *Diatrypes disciformis* aut *Diatrypællæ asperæ* probabile spermogonium.

10. **Cytosporina Ailanthi** Sacc. Mich. II. p. 265 (*Cytospora*). — Stro- 3272
matibus plurilocularibus, nigris, stromate ligneo nigro-limitato in-
sidentibus corticeque obvelatis; sporulis filiformi-curvatis, 15 \approx 1½,
hyalinis, demum in cirros aureos capillares intricatos protrusis.

Hab. in ramis Ailanthi, Selva, Padova Ital. bor. — *Eutypællæ Ailanthi* st. sperm. Sacc. Syll. I. p. 157.

11. **Cytosporina heteracantha** Sacc. Mich. II. pag. 344 (*Cytospora*). 3273
— Stromatibus subunilocularibus, intus pallidis, sub epidermide ele-
vata nidulantibus, globosis, sursum fasciculos hypharum (ut peri-
thecia ascophora) emittentibus; sporulis filiformibus, 20-25 \approx 1, ar-
cuatis, hyalinis sterigmatibus brevibus fasciculatis fultis.

Hab. in ramis corticatis Juglandis regiæ, Salicis etc. in Italia boreali et Gallia. — *Eutypæ heteracanthæ* st. sperm. Sacc. Syll. I. pag. 177.

12. **Cytosporina juglandicola** Sacc. Mich. II. p. 263 (*Cytospora*). — 3274
Stromatibus atris subcutaneis epidermide tumidula, denique fissa
tectis, plurilocularibus, nucleis roseo-flavis; sporulis filiformi-ha-
matis 20 \approx ¾, copiosissimis, in cirros dilute flavos elongatos tortos
denique protrusis, sterigmatibus filiformibus ramosis simplicibusve,
30-50 μ . longis suffultis.

Hab. in ramis corticatis Juglandis regiæ, Padova Ital. bor.

13. **Cytosporina peregrina** (M. et Fr.) Sacc. *Sphæria peregrina* M. 3275
et Fries. Not. in Ann. Sc. nat. II. 1. p. 340, t. 11, f. 4. — Ob-
tecta, sparsa, raro confluens; peritheciis cylindrico-conicis trun-
catis, atris opacis, spiraliter plicato-striatis, epidermide adnata te-
ctis, ostiolo tandem poro pertuso; sporulis filiformi-linearibus cur-
vulis.

Hab. in ramis Broussonetiæ papyrifera pr. Lyon Gallia.

14. **Cytosporina Fusarium** (Niessl) Sacc. *Cytospora Fusarium* Niessl 3276
Mahr. Crypt. Fl. p. 41. — Stromatibus gregariis, conicis; peri-
theciis lageniformibus, ostiolis longis stromate immersis; sporulis
longissime fusoideis exilibus, curvis flexuosisque, acutis, 36-48 \approx
1,6, hyalinis, 5-7-guttulatis.

Hab. in ramis emortuis Populi pr. Brünn Moraviæ.

15. **Cytosporina leucomyxa** (Corda) Sacc. *Cytospora leucomyxa* 3277
(Corda) Rabenh. Deutsch. Crypt. Fl. n. 1341. *Næmaspora leucomyxa* Corda Ic. III. p. 27, fig. 71. — Pustulis gregariis, stromate atro partito, pseudostromate fusco; peritheciis carnosulis albis, paraphysibus catenulatis; sporulis longissimis curvatis, utrinque rotundatis hyalinis, pluriguttulatis, 62-74 = 4-5.

Hab. in ramis putrescentibus arborum frondosarum in Bohemia.

MICULA Duby in Hedw. 1858, n. 1., Sacc. Mich. II. p. 6 (Etym. a *micula*, ob parvitatem). — Perithecia erumpenti-subsuperficialia, discreta, gregaria, globoso-conica, subsuberosa. Sporulæ filiformes, curvulæ, continuæ, pluriguttulatæ hyalinæ, basidiis brevibus suffultæ. — *Microperæ* nimis affinis illique aptius forte subjungenda.

1. **Micula Mougeotii** Duby in Hedw. 1858, n. 1, t. I. f. A 1-8. *Sphæria Micula* Fr. Elench. II. p. 101. — Erumpens; peritheciis globosis pruinatis, albo-pallescentibus, ostiolo fuscescente; sporulis fusoideo-bacillaribus, 46 = 2-2,3 curvulis v. sigmoideis breve stipitatis. 3278

Hab. in ramis languentibus Rhamni alpini in Germania, Gallia, Helvetia. — Pycnidium *Cenangii Morthieri* Fuck. — Sparsa, erumpens, sed non valde prominens, minuta, puncto vix major, sub lente vero luculenter extus albido-pallescens, intus concolor, subfarcta; nucleo centrali atro. Ostiolum papilliforme, impressum, vel prominulum, fuscum.

2. **Micula Alni** Sacc. et Briard. — Peritheciis laxè gregariis, innato-erumpentibus, globulosis, papillulatis, sordide roseis, facile secedentibus; sporulis fusoideis, utrinque acutis, curvatis, 43-50 = 3, pluriguttulatis, hyalinis. 3279

Hab. in ramulis corticatis Alni glutinosæ prope Troyes Galliæ (BRIARD).

MICROPERA Lév. Ann. Sc. nat. 1846, p. 283, Sacc. Mich. II. p. 6. (Etym. *micros* parvus, et *pera* saccus). — Perithecia erumpenti-superficialia, sæpius dense cæspitosa, suberoso-coriacea, sæpe furfuracea, globoso-conica vel subelongata, ostiolo spurio. Sporulæ fusoideo-filiformes, flexuosæ v. arcuatæ, pluriguttulatæ, hyalinæ, basidiis brevibus suffultæ. — Pycnidia, ut videtur, *Cenangiorum*.

1. **Micropera rubida** B. et C. North Amer. Fungi n. 465. — Trans- 3280

versim erumpens, rubida; sporulis filiformibus longissimis plasma-
te hinc inde interrupto.

Hab. in ramis Cerasi in Pennsylvania Amer. bor. (MICHENER).

2. **Micropera Drupacearum** Lév. Ann. Sc. nat. III. 5, pag. 283. *M.* 3281

Cerasi Sacc. Myc. Ven. p. 160, t. XVII. f. 13-15. — Peritheciis
pustulatis, innatis, conico-subcylindræis, pro mutua pressione dif-
formibus rufo-fuscis; ostiolo albido; sporulis anguste cylindræo-
fusoideis, curvatis v. contortis, $50 \approx 3$, hyalinis, nucleo transverse
multipartito.

Hab. in ramis emortuis Cerasorum et Prunorum in Bri-
tannia, Italia, Gattia, Gorizia et America boreali. — Pycnidium
Cenangii Cerasi Fr.

3. **Micropera Cotoneastri** (Fr.) Sacc. *Sphæria Cotoneastri* Fr. in 3282

Kunze Myk. Heft. II. p. 46. — Gregaria, inter epidermidis mem-
branas incusa, erumpens; peritheciis subovatis, globiferis, nigris,
collabascendo depressis inæqualibus.

Hab. ad corticem Cotoneastri et aliarum arborum e fami-
lia Rosacearum in Germania et Suecia. — Forma valde in-
constans, sed situ facile dignoscitur. Junior mollis, globulo instru-
cta subfusca, dein pertusa, demumque rimose dehiscens. Intus ni-
gra, prominens.

4. **Micropera padina** (Pers.) Sacc. Mich. II. p. 104. *Sphæria padina* 3283

Pers. in Moug. et Nestl. Exs. n. 667. — Peritheciis subsolitariis,
ferrugineis, apice nigrescentibus, conico-umbilicatis, dein subpezi-
zoideis; sporulis cylindræo-fusoideis, $25-30 \approx 3\frac{1}{2}-4$, hyalinis, ba-
sidiis brevioribus, filiformibus suffultis.

Hab. in ramis emortuis Pruni Padi in Vogesis. — Ut sy-
nonymon *Sphæronæmatis brunneo-viridis* a quibusdam habetur,
sed satis differt. Cfr. Syll. III. p. 186.

5. **Micropera Sorbi** (Fr.) Sacc. Mich. II. p. 628. *Sphæria Cotoneastri* 3284

β. *Sorbi* Fr. S. M. II. p. 494 *Micropera Drupacearum* (in Sorbo)
Lév. — Peritheciis (spuriis) laxè gregariis, erumpentibus, globo-
so-depressis; sporulis fusoides utrinque acutis, curvulis $15-16 \approx$
 $1\frac{3}{4}-2$, hyalinis, basidiis verticillato-ramosis $20-25 \approx 2\frac{1}{2}$, suffultis,
strato sporigero fusco-violaceo.

Hab. in ramis corticatis Sorbi Aucupariæ in Arduennis
(LIBERT). — Sec. Fuck. pycnidium est *Cenangii inconstantis* (Fr.).

6. **Micropera betulina** Sacc. et Roum. Sacc. Mich. II. p. 628. — Pe- 3285

ritheciis (spuriis) laxè gregariis, cortice nidulantibus et vix erum-
pentibus globulosis, nucleo farcto; sporulis fusoides, rectiusculis

utrinque obtuse attenuatis, 18-20 \approx 3, hyalinis, basidiis simpliciter v. bis dichotome ramosis, 30-35 \approx 2-3 suffultis.

Hab. in cortice Betulæ in Arduennis (LIBERT). — Prob. pyrenidium cujusdam *Cenangii*.

7. **Micropera decorticans** Lév. Ann. Sc. nat. 1848, p. 254. — Peritheciis gregariis innatis, subcarnosis, conicis, basi applanatis, levibus, lutescentibus, epidermide rupta cinctis; sporulis rectis lineari-fusoideis, utrinque acutis, pellucidis, nucleatis. 3286

Hab. in ramis Ilicis Aquifolii in Vogesis.

8. **Micropera roseola** Lév. Ann. Sc. nat. 1846, p. 283. — Peritheciis innatis, confertis, elongatis v. globosis basi liberis, ostioliis transversim erumpentibus, subvillosis, roseolis; sporulis fusoideis, arcuatis. 3287

Hab. in cortice Cerasorum in Gallia. — «Videretur forma subsparsa *Micr. Drupacearum*.»

9. **Micropera tenella** Sacc. et Ell. Sacc. Mich. II. p. 573. — Peritheciis dense gregariis, subsuperficialibus, lateritiis, globosis, vix papillatis, denique collabascentibus, contextu cellulari, olivaceo-rufescente; sporulis bacillaribus, curvulis, 25-30 \approx 2, continuis, hyalinis (humiditate exsiliantibus); basidiis obsoletis. 3288

Hab. in cortice interiore Thujæ, Newfield N. J. Americae borealis (ELLIS).

10. **Micropera Pinastri** (Moug.) Sacc. Mich. II. p. 104. *Cenangium Pinastri* Moug. Stirp. Vog. Fr. S. M. II. p. 184. Fr., Erb. crittog. ital., nec Auct. recent. *Dothichiza Pinastri* Lib. in Roum. Rev. Mycol. — Peritheciis erumpenti-caespitosis, globoso-conicis, piceis, nitidis, duriusculis, apice dein apertis; sporulis fusoideo-falcatis, 50-60 \approx 5-7, pluriguttulatis, hyalinis, basidiis bacillaribus multo brevioribus fultis. 3289

Hab. in cortice Pinorum in Gallia, Germania, Italia, frequens.

11. **Micropera Taxi** Sacc. Mich. II. p. 539. — Peritheciis erumpenti-superficialibus, gregariis v. hinc inde aggregatis, $\frac{1}{6}$ - $\frac{1}{5}$ mill. diam., fuscescentibus, globosis apice obtusiusculis, pertusis; contextu sub-sinuoso-parenchymatico, ochraceo; sporulis fusoideo-acicularibus curvis v. tortuosis, utrinque acutis 50-60 \approx 3,5-4,5, 5-7-guttatopseudoseptatis, non constrictis, hyalinis; basidiis acicularibus brevibus e basi sporigera lutescente oriundis. 3290

Hab. in cortice Taxi baccatæ, Conegliano Italiae borealis (SPGAZZINI).

REPERTORIUM

SPHÆRIOIDEARUM SCOLECOSPORARUM

SECUNDUM MATRICES

Obs. C. indicat *Cornularia*. — Cy. *Cytosporina*. — D. *Dilophospora*. — E. *Eriospora*. — G. *Gelatinosporium*. — M. *Micula*. — Mo. *Micropera*. — P. *Phleospora*. — Pa. *Phlyctæna*. — R. *Rhabdospora*. — S. *Septoria*. — Sm. *Sphaerographium*.

N. 2254 — 2999 citantur 554 — 999

N. 3001 — 3290 citantur 1 — 290

- | | |
|---|-----------------------------|
| Abies — S. 737. 32. — R. 179. — Pa. 242. — C. 252. | Anemone — S. 820. 829. |
| Acanthus — S. 903. | Angelica — R. 199. |
| Acer — S. 571. 572. 573. 574. 575. 576. — P. 135. — R. 168. | Anoda — S. 559. |
| Achillea — S. 973. | Anthriscus — S. 877. |
| Aconitum — S. 849. 850. | Antirrhinum — R. 195. |
| Adenophora — S. 953. | Apium — R. 200. |
| Adoxa — S. 945. | Aplotaxis — S. 972. |
| Ægopodium — S. 870. 871. 872. | Apoecynum — S. 938. |
| Æsculus — S. 577. 578. 579. | Aquilegia — S. 851. |
| Ætheorrhiza — S. 994. | Arabis — S. 813. — R. 196. |
| Agave — S. 109. | Arauja — S. 939. 940. |
| Agropyrum — S. 40. | Arbutus — S. 661. |
| Ailanthus — Cy. 272. | Arisarum — S. 84. |
| Alisma — S. 93. 94. 95. | Aristolochia — S. 23. |
| Allium — S. 104. 105. 106. | Armoracia — S. 814. |
| Alnus — S. 734. 735. 736. — R. 170. — M. 279. | Arnica — S. 971. |
| Aloe — S. 110. | Artemisia — S. 970. |
| Alopecurus — S. 51. — D. 261. | Artocarpus — S. 698. 699. |
| Althæa — S. 791. 793. — R. 193. | Arum — S. 85. |
| Andromeda — S. 663. | Arundo — S. 60. 61. 65. 66. |
| Andropogon — S. 59. | Asarum — S. 24. |
| | Asphodelus — S. 93. |
| | Aster — S. 981. |
| | Astragalus — S. 748. |

- Atriplex — S. 14.
 Aucuba — S. 650.
 Azalea — Sm. 246.
- Baccharis — S. 962.
 Balsamina — S. 784.
 Baptisia — S. 749.
 Barkhausia — R. 200.
 Bellis — S. 975. 976.
 Berberis — S. 556.
 Berteroa — S. 815.
 Beta — S. 13.
 Betula — S. 730. 731. 732. 733. — R. 186. — Pa. 241. — Sm. 249. — Mo. 285.
 Bidens — S. 969.
 Bowlesia — S. 879.
 Brachychiton — S. 563.
 Brachypodium — S. 42. 51. 54. 55. 57. 68.
 Bromus — S. 51. 54. 68.
 Broussonetia — R. 173. — Cy. 275.
 Bryonia — S. 860.
 Buffonia — Pa. 230.
 Buddleja — S. 685. 686.
 Bumelia — S. 666.
 Bupleurum — S. 868. 869.
 Buxus — S. 691.
- Calamagrostis — S. 53.
 Calla — S. 86.
 Calycanthus — S. 639.
 Campanula — S. 947.
 Cannabis — S. 19.
 Capparis — S. 826.
 Cardamine — S. 818.
 Carex — S. 70. 71. 72. 73. 74. 75. 76. — E. 260.
 Carpinus — R. 169. — Cy. 269.
 Castanea — S. 720. 721. 722. 723. — Sm. 245.
 Catalpa — S. 25.
 Celtis — S. 693. 694.
 Centaurea — S. 989.
 Centranthus — R. 220. 221.
 Cephalanthus — R. 166.
- Cerasus — C. 254. — Mo. 280. 281. 287.
 Cerastium — S. 808.
 Ceratonia — S. 606.
 Cereis — S. 607. 608. — Cy. 264.
 Cestrum — S. 687.
 Chærophyllum — R. 199. 204.
 Cheiranthus — S. 823.
 Chelidonium — S. 827.
 Chelone — S. 892.
 Chenopodium — S. 14. 15.
 Chlora — R. 211.
 Chionanthus — S. 678.
 Cichorium — S. 990. 991.
 Cirsium — S. 985. 987. — R. 218.
 Citrus — S. 564. 565. 566. 567. 568. 569. 570. — R. 157. 158. — Pa. 238.
 Clematis — S. 841. 842. 843. 844. 845. 846. — R. 198.
 Colechicum — S. 96.
 Convallaria — S. 113. 114. 115.
 Convolvulus — S. 909. 910.
 Coptis — S. 853.
 Coriaria — S. 584.
 Cornus — S. 651. 652.
 Coronilla — S. 613.
 Corylus — S. 717. 718. — R. 168.
 Corynocarpus — S. 558.
 Cotoneaster — Mo. 282.
 Cratægus — S. 620. — P. 139.
 Cucurbita — S. 860. 33.
 Cuphæa — S. 779.
 Cyclamen — S. 889.
 Cyclanthera — S. 861.
 Cydonia — S. 621. 622. — R. 153.
 Cynanchum — S. 779. 935. 937. — R. 212.
 Cynara — S. 983.
 Cynodon — S. 50.
 Cytisus — S. 611. 612. — P. 146.
- Daphne — S. 689.
 Datura — S. 906.
 Delphinium — S. 847. 848.
 Deutzia — S. 640.
 Diapensia — S. 859.
 Dictamnus — S. 787.

- Digitalis* — S. 900.
Dipsacus — S. 1. 2.
Dianthus — S. 795. 796. 801. 802. 803.
 — R. 207.
Dolichos — S. 753. 754.
Doronicum — S. 972.
Dracocephalum — S. 926.
Drymis — S. 614.
Dupontia — S. 36.

Elæagnus — S. 690.
Ephedra — R. 180. 181. 182.
Epilobium — S. 780. 781.
Epipactis — S. 124.
Equisetum — S. 128. 129.
Eranthis — S. 831.
Erigeron — S. 963. 964.
Eryngium — S. 883.
Erysimum — S. 822.
Erythronium — S. 111.
Eucalyptus — S. 641. 642.
Eupatorium — S. 959.
Euphorbia — S. 788. 789. 790. — R.
 191. 192.
Evonymus — S. 594. 595.
Excæcaria — S. 700.

Fagus — S. 719. — R. 171. — Cy.
 267. 270. 271.
Festuca — q. 42. 47. — D. 261.
Ficaria — S. 833. 834.
Ficus — S. 695. 696. 697.
Fœniculum — R. 205.
Fragaria — S. 768.
Fraxinus — S. 669. 670. 671. 672. —
 R. 161. 162. — Sm. 250. — Cy. 266.
Fuchsia — S. 778.

Galeopsis — S. 923.
Galinsoga — S. 932.
Galium — S. 941. 942. 943. 944.
Garrya — S. 701.
Genista — R. 142. 143.
Gentiana — S. 931. 932.
Geranium — S. 785. 786. — D. 262.
Geum — S. 763. — R. 199.
Gladiolus — S. 122.

Globularia — S. 912.
Glyceria — S. 42.
Gnaphalium — R. 218.
Gossypium — S. 794. — Pa. 232.
Graminaceæ — S. 63. 67.
Gratiola — S. 897.
Gymnadenia — S. 125.

Hedeoma — R. 209.
Hedera — S. 642. 644. 645. 646.
Helleborus — S. 840. — R. 197.
Helianthus — R. 217.
Hepatica — S. 830.
Heracleum — S. 864. — R. 202. 203.
 204.
Heterothalamus — R. 145.
Hibiscus — S. 560. 561.
Hieracium — S. 998.
Hippophaë — S. 688.
Holcus — S. 52.
Hordeum — S. 35.
Hosackia — S. 750.
Hoya — S. 963.
Humulus — S. 20.
Hydrocotyle — S. 880. 881. 882.
Hypericum — S. 791.

laborosa — S. 643.
Iasminum — S. 667. 668.
Ilex — S. 598. 599. 600. — Sm. 248.
 — Mo. 286.
Impatiens — S. 783.
Inula — S. 965.
Iresine — S. 16.
Iris — S. 123.
Iuglans — S. 703. 30. 31. — R. 172.
 — Cy. 273. 274.
Iuncus — S. 87.
Iussiaëa — S. 776. 777.

Kalmia — S. 692.
Kœleria — S. 39.

Lactuca — S. 992. 993.
Lamium — S. 915. 916.
Lathyrus — S. 759. 760. 761. 762.
Lappa — S. 988. — Pa. 233.

- Atriplex — S. 14.
 Aucuba — S. 650.
 Azalea — Sm. 246.
- Baccharis — S. 962.
 Balsamina — S. 784.
 Baptisia — S. 749.
 Barkhausia — R. 200.
 Bellis — S. 975. 976.
 Berberis — S. 556.
 Berteroa — S. 815.
 Beta — S. 13.
 Betula — S. 730. 731. 732. 733. — R. 186. — Pa. 241. — Sm. 249. — Mo. 285.
 Bidens — S. 969.
 Bowlesia — S. 879.
 Brachychiton — S. 563.
 Brachypodium — S. 42. 51. 54. 55. 57. 68.
 Bromus — S. 51. 54. 68.
 Broussonetia — R. 173. — Cy. 275.
 Bryonia — S. 860.
 Buffonia — Pa. 230.
 Buddleja — S. 685. 686.
 Bumelia — S. 666.
 Bupleurum — S. 868. 869.
 Buxus — S. 691.
- Calamagrostis — S. 53.
 Calla — S. 86.
 Calycanthus — S. 639.
 Campanula — S. 947.
 Cannabis — S. 19.
 Capparis — S. 826.
 Cardamine — S. 818.
 Carex — S. 70. 71. 72. 73. 74. 75. 76. — E. 260.
 Carpinus — R. 169. — Cy. 269.
 Castanea — S. 720. 721. 722. 723. — Sm. 245.
 Catalpa — S. 25.
 Celtis — S. 693. 694.
 Centaurea — S. 989.
 Centranthus — R. 220. 221.
 Cephalanthus — R. 166.
- Cerasus — C. 254. — Mo. 280. 281. 287.
 Cerastium — S. 808.
 Ceratonia — S. 606.
 Cercis — S. 607. 608. — Cy. 264.
 Cestrum — S. 687.
 Chærophyllum — R. 199. 204.
 Cheiranthus — S. 823.
 Chelidonium — S. 827.
 Chelone — S. 892.
 Chenopodium — S. 14. 15.
 Chlora — R. 211.
 Chionanthus — S. 678.
 Cichorium — S. 990. 991.
 Cirsium — S. 985. 987. — R. 218.
 Citrus — S. 564. 565. 566. 567. 568. 569. 570. — R. 157. 158. — Pa. 238.
 Clematis — S. 841. 842. 843. 844. 845. 846. — R. 198.
 Colchicum — S. 96.
 Convallaria — S. 113. 114. 115.
 Convolvulus — S. 909. 910.
 Coptis — S. 853.
 Coriaria — S. 584.
 Cornus — S. 651. 652.
 Coronilla — S. 613.
 Corylus — S. 717. 718. — R. 168.
 Corynocarpus — S. 558.
 Cotoneaster — Mo. 282.
 Cratægus — S. 620. — P. 139.
 Cucurbita — S. 860. 33.
 Cuphæa — S. 779.
 Cyclamen — S. 889.
 Cyclanthera — S. 861.
 Cydonia — S. 621. 622. — R. 153.
 Cynanchum — S. 779. 935. 937. — R. 212.
 Cynara — S. 983.
 Cynodon — S. 50.
 Cytisus — S. 611. 612. — P. 146.
- Daphne — S. 689.
 Datura — S. 906.
 Delphinium — S. 847. 848.
 Deutzia — S. 640.
 Diapensia — S. 859.
 Dictamnus — S. 787.

- Digitalis* — S. 900.
Dipsacus — S. 1. 2.
Dianthus — S. 795. 796. 801. 802. 803.
— R. 207.
Dolichos — S. 753. 754.
Doronicum — S. 972.
Dracocephalum — S. 926.
Drymis — S. 614.
Dupontia — S. 36.

Elæagnus — S. 690.
Ephedra — R. 180. 181. 182.
Epilobium — S. 780. 781.
Epipactis — S. 124.
Equisetum — S. 128. 129.
Eranthis — S. 831.
Erigeron — S. 963. 964.
Eryngium — S. 883.
Erysimum — S. 822.
Erythronium — S. 111.
Eucalyptus — S. 641. 642.
Eupatorium — S. 959.
Euphorbia — S. 788. 789. 790. — R.
191. 192.
Evonymus — S. 594. 595.
Excæcaria — S. 700.

Fagus — S. 719. — R. 171. — Cy.
267. 270. 271.
Festuca — q. 42. 47. — D. 261.
Ficaria — S. 833. 834.
Ficus — S. 695. 696. 697.
Foeniculum — R. 205.
Fragaria — S. 768.
Fraxinus — S. 669. 670. 671. 672. —
R. 161. 162. — Sm. 250. — Cy. 266.
Fuchsia — S. 778.

Galeopsis — S. 923.
Galinsoga — S. 982.
Galium — S. 941. 942. 943. 944.
Garrya — S. 701.
Genista — R. 142. 143.
Gentiana — S. 931. 932.
Geranium — S. 785. 786. — D. 262.
Geum — S. 763. — R. 199.
Gladiolus — S. 122.

Globularia — S. 912.
Glyceria — S. 42.
Gnaphalium — R. 218.
Gossypium — S. 794. — Pa. 232.
Graminaceæ — S. 63. 67.
Gratiola — S. 897.
Gymnadenia — S. 125.

Hedeoma — R. 209.
Hedera — S. 642. 644. 645. 646.
Helleborus — S. 840. — R. 197.
Helianthus — R. 217.
Hepatica — S. 830.
Heracleum — S. 864. — R. 202. 203.
204.
Heterothalamus — R. 145.
Hibiscus — S. 560. 561.
Hieracium — S. 998.
Hippophaë — S. 688.
Holcus — S. 52.
Hordeum — S. 35.
Hosackia — S. 750.
Hoya — S. 963.
Humulus — S. 20.
Hydrocotyle — S. 880. 881. 882.
Hypericum — S. 791.

laborosa — S. 643.
Jasminum — S. 667. 668.
Ilex — S. 598. 599. 600. — Sm. 218.
— Mo. 286.
Impatiens — S. 783.
Inula — S. 965.
Iresine — S. 16.
Iris — S. 123.
Iuglans — S. 703. 30. 31. — R. 172.
— Cy. 273. 274.
Juncus — S. 87.
Jussiaëa — S. 776. 777.

Kalmia — S. 692.
Kœleria — S. 39.

Lactuca — S. 992. 993.
Lamium — S. 915. 916.
Lathyrus — S. 759. 760. 761. 762.
Lappa — S. 988. — Pa. 233.

- Lavandula — S. 914.
 Leersia — S. 45.
 Lepidium — S. 816. 817.
 Leucanthemum — S. 977. 978.
 Leycesteria — S. 656.
 Ligustrum — S. 680. 681.
 Ligusticum — S. 878.
 Linaria — S. 901. 902.
 Liquidambar — S. 704.
 Listera — S. 126.
 Lobelia — S. 886.
 Lolium — S. 35.
 Lonicera — S. 653. 654. — P. 150. —
 R. 159. 160. — Sm. 243. 244.
 Lophanthus — S. 918.
 Ludwigia — S. 775.
 Lupinus — S. 751.
 Lychnis — S. 804. 805. — R. 195.
 Lycopus — S. 928.
 Lysimachia — S. 890.
 Lythrum — S. 773. 774.

 Magnolia — S. 554. 555. — P. 148.
 Mahonia — S. 557.
 Maianthemum — S. 116.
 Malva — S. 917.
 Marsdenia — S. 937.
 Martinezia — S. 127.
 Matthiola — S. 821.
 Medicago — S. 747. — R. 188. 218.
 Melianthus — S. 583.
 Melica — S. 37. 38.
 Melissa — S. 921.
 Melittis — S. 922.
 Menispermum — S. 11.
 Mentha — S. 919. 920.
 Menyanthes — S. 887.
 Mercurialis — S. 21.
 Mespilus — S. 623.
 Micropera — Sm. 251.
 Molinia — S. 58.
 Morus — P. 136. 137.
 Mulgedium — S. 957.

 Nabalus — S. 966. — Pa. 235.
 Nasturtium — S. 820.
 Negundo — R. 167.

 Nerium — S. 682. 683. — R. 164.
 Nyssa — C. 256.

 Oenothera — S. 782.
 Olea — S. 675. 679. 29.
 Onoclea — S. 130.
 Orchis — S. 126.
 Origanum — R. 210.
 Ornithogalum — S. 100. 101.
 Orobus — S. 757. 758.
 Oryza — S. 48. 49.
 Ostrya — S. 716.

 Pæonia — S. 854. 855. 856.
 Paliurus — S. 596.
 Panicum — S. 68.
 Paris — S. 117.
 Passiflora — S. 27.
 Pastinaca — S. 866. 867.
 Paulownia — S. 684. — R. 165.
 Pedicularis — R. 207.
 Pelargonium — R. 190.
 Pentastemum — S. 899.
 Persica — P. 152. — C. 255.
 Petroselinum — S. 876.
 Peucedanum — S. 865.
 Phalaris — S. 51.
 Phaseolus — S. 34.
 Phillyrea — S. 674. 676. 677.
 Phlox — S. 893.
 Photinia — S. 638.
 Phragmites — S. 60. 62. 63. 64.
 Phyteuma — S. 951. 952.
 Phytolacca — Pa. 226. 227. 228.
 Pilea — S. 22.
 Pinus — S. 738. — R. 177. 178. — C.
 253. — Mo. 289.
 Pircunia — S. 7.
 Pirola — S. 885.
 Pirus — S. 624. 625. 626. — P. 28.
 Pistacia — S. 601.
 Pisum — S. 755. 34. — R. 189.
 Plantago — S. 917. 4. 5. 6. — R. 222.
 Platanthera — S. 126.
 Platanus — S. 702.
 Poa — S. 56.
 Podocarpus — S. 739.

- Polygonum — S. 8. 9. — Pa. 229.
 Podophyllum — S. 852.
 Polemonium — S. 908.
 Polygala — S. 824. 825.
 Polygonatum — S. 114.
 Polytrichum — S. 133.
 Populus — S. 712. 713. 714. 715. —
 R. 174. — Pa. 237. — C. 258. —
 Cy. 276.
 Potentilla — S. 764. 765. 766. 767.
 Prunus — S. 629. 630. 631. 632. 633.
 634. 635. 636. 637. — Cy. 263. —
 Mo. 281. 283.
 Pteris — S. 131.
 Pulmonaria — S. 911.

 Quercus — S. 724. 725. 726. 727. 728.
 729.

 Ranunculus — S. 835. 836. 837. 838.
 839. — C. 199.
 Rhamnus — S. 586. 587. 588. 589. 590.
 591. 592. 593. — M. 278.
 Rheum — S. 10. — R. 223.
 Rhipogonum — Pa. 239.
 Rhododendron — S. 662. — Sm. 247.
 Rhus — S. 602. 603. 604. 605.
 Rhynchospora — S. 88.
 Ribes — S. 647. 648. 649. — R. 140.
 Robinia — S. 609. 610. — P. 147. —
 C. 255. — Cy. 263. 265.
 Rosa — S. 615. 616. 617.
 Rosaceæ — Mo. 282.
 Rubia — R. 213.
 Rubus — S. 619. — P. 151.

 Salix — S. 705. 706. 707. 708. 709. 710.
 711. — R. 175. 176. — Pa. 238. —
 Cy. 273.
 Salpichroa — S. 907.
 Salvia — S. 927.
 Sambucus — S. 655. 946.
 Saponaria — S. 797.
 Saussurea — S. 968.
 Saxifraga — S. 857.
 Scabiosa — S. 999. — R. 219.
 Scandix — R. 201. 206.
 Scilla — S. 102.
 Scirpus — S. 77. 78. 79. 80. 81. 82. 83.
 Scleranthus — S. 810.
 Sclerochloa — S. 46.
 Scleropus — S. 17.
 Scolopendrium — S. 132.
 Scolymus — S. 984.
 Scrophularia — S. 898.
 Scutellaria — S. 924.
 Sedum — S. 858.
 Senecio — S. 979. 980. — Pa. 236.
 Seseli — S. 874.
 Silene — S. 797. 798. 799. 800.
 Sison — S. 875.
 Sisymbrium — S. 819.
 Sium — S. 873.
 Smilax — S. 120. 121. — Pa. 240.
 Soja — S. 752.
 Solanum — S. 904. 905. — R. 218.
 Soldanella — S. 888.
 Solidago — S. 960. 961. — R. 199. 215.
 216. — Pa. 284.
 Sonchus — S. 995. 996. 997.
 Sorbus — S. 627. 628. — P. 149. —
 Mo. 284.
 Sparganium — S. 92.
 Spartium — S. 26. — R. 144.
 Specularia — S. 948. 949. 950.
 Spergula — S. 809.
 Spinacia — S. 12.
 Spiræa — S. 618. 770. 771. 772.
 Stachys — S. 925.
 Staphylea — S. 585. — Cy. 270.
 Stellaria — S. 806. 807.
 Succisa — S. 3000.
 Symphoricarpus — Pa. 231.
 Symplocos — S. 664. 665.
 Syringa — S. 673.

 Tamus — S. 118. 119. — Pa. 226.
 Tanacetum — S. 958.
 Taxus — Mo. 290.
 Teucrium — S. 929. 930.
 Thuja — Mo. 288.
 Tilia — S. 562.
 Tormentilla — S. 766.
 Trianospermum — S. 862.

- Trientalis — S. 891.
 Trifolium — S. 746. — R. 187.
 Trillium — S. 112.
 Triticum — S. 41. 42. 43. 44. 68. —
 D. 261.
 Trollius — S. 832.
 Tunica — R. 194.
 Tussilago — S. 954. 955. 956.
 Typha — S. 89. 90. 91. — E. 260.

 Ulmus — P. 138. — Pa. 231. — Cy.
 263. 268.
 Umbelliferæ — S. 863.
 Urginea — S. 103.
 Urtica — S. 18.

 Vaccinium — S. 658. 659. 660.
 Veratrum — S. 97.
 Verbascum — S. 894.
 Verbena — S. 913. — R. 208.

 Veronica — S. 895. 896.
 Viburnum — S. 657. — R. 163. — C.
 259.
 Vicia — S. 756.
 Villarsia — S. 933. 934.
 Viola — S. 811. 812.
 Viscum — S. 884.
 Vitis — S. 580. 581. 582. — R. 154.
 155. 156. 157.

 Waldsteinia — S. 769.
 Wahlenbergia — R. 214.
 Wyethia — S. 967.

 Yucca — S. 107. 108.

 Xanthium — S. 3.

 Zea — S. 69.
 Zizyphus — S. 597.

Fam. 2. Nectrioidæ Sacc.

Perithecia et stroma (ubi adest) carnosula v. ceracea, læticoloria (albida, flava, rubra, aurantiaca) globulosa v. rarius hysteroidea v. subcupulata. Sporulæ variæ, hucusque hyalinæ. — Formæ, ut plurimum, metageneticæ *Hypocreacearum*.

Clavis analytica generum.

Subcohors I. Zythiæ Sacc.

Perithecia subglobosa, sphaeriiformia.

Sect. 1. Hyalosporæ Sacc.

Sporulæ globosæ, ovoideæ v. oblongæ, continuæ, hyalinæ.

I. Perithecia e tunica simplici composita.

A) Simplices.

§ Perithecia erostria.

Zythia. Perithecia globulosa, subpapillata, glabrescentia, epiphyta.

Collacystis. Perithecia globulosa, pilosa, epizoa.

Roumeguèriella. Perithecia irregulariter dehiscencia; sporulæ muriculatæ (initio catenulatæ sec. Cooke).

Libertiella. Perithecia ostiolo amplo, crateriformi, discolori instructa; sporulæ leves.

§§ Perithecia rostrata.

Sphaeronæmella. Est quasi Sphaeronæma carnosulum, læticolor.

B) Compositæ.

Aschersonia. Stroma verruciforme vel turbinatum, intus pluri-locellatum. Est quasi Hypocrea basidiospora.

II. Perithecia e tunica duplici composita.

Dichlæna. Perithecii vitellini tunica exterior tandem circumscissa.

Sect. 2. Didymosporæ Sacc.

Sporulæ ellipsoideæ v. oblongæ, 1-septatæ, subhyalinæ.

Pseudodiplodia. Perithecia ceraceo-carnosula, mox ore lato aperta. Sporulæ dilute olivaceæ.

Sect. 3. Phragmosporæ Sacc.

Sporulæ oblongæ v. fusoidæ v. breve cylindræ, 2-pluriseptatæ, hyalinæ.

Stagonopsis. Sporulæ oblongo-fusoidæ, 2-pluriseptatæ, indivisæ.

Chiastospora. Sporulæ decussato-4-radiatæ, radiis cylindræ, inæqualibus, septatis.

Sect. 1. *Scolecosporæ* Sacc.

Sporulæ filiformes v. bacillares, continuæ v. pluriseptatæ, hyalinæ.

Polystigmia. Stroma disciforme, convexulum, rubro-aurantiacum, intus pluriloculare. Sporulæ filiformi-hamatae.

Subcohors II. *Patellineæ* Sacc.

Perithecia subcupulata v. subhysterioidea.

Hysteromyxa. Perithecia (genuina?), applanata, oblonga, rimose v. substellatim hiantia, glabrescentia.

Patellina. Perithecia patellari-cupulata, pezizoidea, glabrescentia.

Cyphina. Perithecia subcupulata, pilis longis albidis vestita.

ZYTHIA Fr. Summa p. 407, ex p. (Ety. a *zyo* vel *zeo* scateo, forte ob sporulas exsiliences), *Phomopsis* Sacc. Mich. II. p. 272. — Perithecia erumpentia vel subsuperficialia, globulosa, plus vel minus distincte papillata, ceraceo-molliuscula, albida, rosea, rufula vel aurantiaca. Sporulæ ovoides vel oblongæ, continuæ, hyalinæ, basidiis variis fultæ. — Habitus *Nectriæ* quacum sine dubio metagenetice connectitur.

1. **Zythia aurantiaca** (Peck) Sacc. *Sphaeronæma aurantiacum* Peck 3291
Rep. St. Mus. N. York t. II. f. 9-11. — Peritheciis minutis erumpentibus, hemisphæricis vel subconicis subinde ostiolo leniter papillato, aurantiacis; sporulis oblongo-ellipsoideis, hyalinis 7-10 μ . long., in globulum carneolum terminalem denique coactis.

Hab. in cortice Corni alternifoliæ, Bethlehem Amer. bor.

2. **Zythia citrinella** (Lév.) Sacc. *Sphaeropsis citrinella* Lév. Ann. Sc. 3292
Nat. p. 62. — Hypophylla sparsa; peritheciis globosis, aurantiacis, stromate subgloboso carnosio flavo, basi fibrilloso radiato insidentibus, ostiolis papillatis; sporulis fusoideo-elongatis, hyalinis.

Hab. in foliis deciduis Myrtaceæ ignotæ in insula Java.

3. **Zythia Versoniana** Sacc. Mich. II. p. 272 (*Phomopsis*). — Peri- 3293
theeciis dense gregariis, innato-erumpentibus, globulosis, subastomis, rufescentibus, $\frac{1}{8}$ mill. d., contextu parenchymatico interne rufescente, externe olivaceo-ochraceo; sporulis fusoideis, 18-20 \approx 2-4, hyalinis, basidiis bacillaribus fasciculatis, 18-20 \approx 1 $\frac{1}{2}$, suffultis.

Hab. in fructibus immaturis dejectis Punicæ Granati, Torreglia Padova Italiæ bor., sociâ *Nectriellâ Versonianâ*, cujus certe spermogonium.

4. **Zythia annularis** (B. et Br.) Sacc. *Sphæropsis annularis* B. et Br. Cub. Fungi n. 792. — Lateritia; peritheciis centro depressis; sporulis subcuneiformibus, 12 μ . longis. 3294
Hab. in ligno putri in insula Cuba. — Habitus omnino *Nectricæ* collapsæ.
5. **Zythia Mercurialis** (Lib.) Kickx Fl. Crypt. Fl. I. p. 449, *Sphæronæma Mercurialis* Lib. Exs. n. 264. — Peritheciis sparsis v. aggregatis, sordide flavis, dein ferrugineis, tandem brunneo-nigricantibus, globulosis, poro pertusis; sporulis oblongis v. ovoideis perexiguis mox in globulum luteolum ejectis. 3295
Hab. in foliis, petiolis caulibusque *Mercurialis* perennis in Belgio et Arduennis.
6. **Zythia Brassicæ** Sacc. et Roum. Reliq. Libert. Ser. IV. n. 120. — Peritheciis superficialibus densissime gregariis, globoso-inæqualibus, ostiolo obsolete, flavo-mellis, $\frac{1}{3}$ mill. d., contextu laxo et indistincte parenchymatico, subochraceo; sporulis elongato-teretibus, 10-11 \approx 2,5-3, hyalinis; basidiis non visis. 3296
Hab. in cortice interiore *Brassicæ* putrescentis in Arduennis (LIBERT). — Forte *Nectriellæ Keithii* spermogonium.
7. **Zythia elegans** Fr. Summa p. 408, *Perisporium elegans* Fr. Sel. Suec. n. 460, *Sphæronæma elegans* De Not. Micr. it. Dec. III. n. 8. — Peritheciis gregariis subcutaneo-erumpentibus, globoso-conoideis, obtusis, poro pertusis, siccitate collabascendo umbilicatis, initio subcarneis, tandem fuscis; sporulis cylindræis, subinde leniter curvis, chlorino-hyalinis, sessilibus, utrinque truncatis, mox cirrose expulsis, 6-7 \approx 1,4. 3297
Hab. in caulibus herbarum majorum in Suecia et Italia.
8. **Zythia leucoconia** (B. et Br.) Sacc. *Sphæronæma leucoconium* B. et Br. Ann. N. H. n. 405. — Gregaria; peritheciis hyalinis, planoconvexis, depressis, satis irregularibus, simpliciter pertusis, muticis, subiculo ramoso-floccoso albo insidentibus; sporulis minutis, ellipsoideis. 3298
Hab. in radice corrupta *Betæ*, King's Cliffe Britannicæ.
9. **Zythia Rhinanthi** (Lib.) Fr. Summa Veg. p. 408, Kickx Fl. crypt. Fl. I. p. 447, *Sphæronæma Rhinanthi* Lib. Exs. n. 263. — Peritheciis sparsis, nigris, globoso-depressis, non papillatis; globulo sporaceo minuto albo. 3299
Hab. in caule capsulisque *Rhinanthi* *Cristæ-galli* in Belgio et Arduennis. — Habitus *Phomæ complanatæ*. «Si perithecia jugiter nigra, an potius *Phomæ* species? ».

10. **Zythia compressa** Schw. Syn. Amer. bor. n. 2130. — Sparsa et 3300
gregaria; peritheciis parabolico-conicis subcompressis, spadiceis,
subdiaphanis; globulo spermatico candido, demum penicillato.

Hab. in Polyporo frondoso, rara, Bethlehem in Amer.
bor. — Optime distincta ab *Eleutheromyce subulato*, cui ha-
bitu affinis.

COLLACYSTIS Kunze in Gützig Das Leichnam, I. p. 212, Fr. S. V. S.
p. 407 (Etym. *colla* gluten, et *cyste* uter). — Perithecia subglobo-
sa, firmula, lutescentia, floccis seu hyphis brevibus fasciculatis ob-
tecta, iisque hinc illinc radicania. Sporulæ globulosæ pallidæ.

1. **Collacystis putredinis** Kunze l. c. Fr. l. c. — Peritheciis $\frac{1}{2}$ -1 3301
mill. diam., sparsis vel aggregatis, ceraceis dein coriaceo-durius-
culis, hyphis brevibus albidis cinctis.

Hab. in cadavere humano semiputrigo in Germania. — Bo-
norden, Abh. II. p. 135, citat speciem affinem in sacco putri in cel-
lis lectam: peritheciis flavis dein olivaceis, minute celluloso-con-
textis; basidiis ramulosis sporulas globosas hyalinas gerentibus.

ROUMEGUÉRIELLA Speg. in Roum. Rev. Myc. (Etym. a cl. C. Rou-
MEGUÈRE, meritissimo cryptogamologo gallo). — Perithecia sphæ-
rica, membranaceo-cartilaginea, alba vel læte colorata, irregula-
riter dehiscentia. Sporulæ numerosissimæ globosæ, in nucleum mu-
cosum a perithecio discretum congestæ. Basidia evanescentia vel
non visa. — Genus memorabile, teste Spegazzinio, inter Sphæro-
psideas et Hyphomyceteas ambiguum.

1. **Roumeguériella muricespora** Speg. l. c., *Eurotium album* Lib. 3302
in Herb. et Cooke in Grevillea. — Peritheciis sphæricis, puncto
centrali matrici adfixis, 0,3-0,4 mill. diam., membranaceo-tenacius-
culis, contextu crassiuscule parenchymatico-membranaceo, roseo-
flavo-albicantibus, irregulariter dehiscentibus; sporulis in nucleum
gelatinosum conglutinatis, globosis, crassiuscule tunicatis, ubique
densissime muriculato-asperulis, pallide flavis, 20 μ . diam.

Hab. in foliis et ramentis dejectis putrescentibus prope Mal-
medy in Arduennis (LIBERT) et prope Toulouse Galliæ (ROUMEGUÈRE).
— Sec. Cooke in Grevill. sporulæ primo concatenatæ dein liberæ.

LIBERTIELLA Speg. et Roum. in Revue Mycol. (Etym. a Domina
A. LIBERT meritissima cryptogamologa Arduennensi, cui quoque
dicatum est genus diversissimum melanconieum *Libertella* Desm.).

— Perithecia carnosula, alba vel læte colorata, ostiolo late hiante donata, subsuperficialia. Sporulæ in basidiis acrogenæ, ellipticæ vel ovoideæ, hyalinæ. — *Zythiæ* valde affine genus.

1. **Libertiella malmedyensis** Speg. et Roum. l. c., *Zythia Peltigeræ* 3303

Lib. in Herb. et Cooke in Grevillea. — Peritheciis gregariis, hypophyllis, mollibus, carnosulis, globoso-conicis, albis, circa ostiolum late hians crateriforme fuscis, basi matrici innatis atque villosulis, siccitate cupulato-collabascens; gelatina sporulosa alba; 0,2, 0,3 mill. diam.; sporulis hyalinis, continuis, ellipticis vel ovoideis, granuloso-farctis, 5-6 = 2-2½, basidiis subcylindræis, 10 = 2, suffultis.

Hab. in hypophyllo thalli *Peltigeræ polydactylæ* prope Malmedy in Arduennis (LIBERT).

SPHÆRONÆMELLA Karst. Hedw. 1884, p. 17 (Etym. a *Sphæronæma*, cui habitu affinis). — Perithecia subsphæroidea, membranacea, tenuissima, mollia, læticoloria, sicca indurata, cornea, superficialia, glabra, ostiolo rostellato. Sporulæ ellipsoideæ, continuæ, hyalinæ interdum appendiculatæ vel muco obvolutæ, plerumque ad apicem rostri in globulum denique expulsæ.

1. **Sphæronæmella Mougeotii** (Fr.) Sacc. *Sphæria Mougeotii* Fr. Elench. 3304 II. p. 100, *Sphæronæma Hederæ* Fuck. Symb. p. 178. — Erumpens, sparsa; peritheciis piriformibus mollibus roseis, siccis longitudinaliter collabascens et sub lente obsolete pruinosis, ostiolo papilliformi rostrato obscuriore; sporulis oblongo-allantoideis, 3 = 1, hyalinis.

Hab. in sarmentis corticatis *Hederæ Helicis* in Gallia, Germania et Italia.

2. **Sphæronæmella acicularis** (Fr.) Sacc. *Sphæronæma aciculare* Fr. 3305 S. M. II. p. 536, *Sphæria dubia* Tode Meckl. fig. 118. — Peritheciis cylindrico-attenuatis griseo-nigricantibus, deorsum flavis, globulo albo lutescente.

Hab. ad ligna quercina et pinea in Germania. — Affine *Sphær. rufæ* sed differt forma fere cylindrica, colore griseo semipellucido ad apicem deorsumque flavo, gelatina globosa flavescens. Basis passim strigosa.

3. **Sphæronæmella diaphana** (Fuck.) Sacc. *Sphæronæma diaphanum* 3306 Fuck. Symb. p. 399. — Peritheciis gregariis, conicis, olivaceis, seminis *Papaveris* magnitudine, diaphanis, demum atris, globulo sor-

dido, gelatinoso, magno terminali; sporulis ellipticis, rectis, 12 = 4, hyalinis.

Hab. in fragmentis Laricis europææ prope Æstrich in Rhenogovia.

4. **Sphæronæmella flavo-viridis** (Fuck.) Sacc. *Sph. flavo-viride* Fuck. 3307
Symb. Myc. p. 147. — Peritheciis irregulariter clavatis, cylindraceis vel basi incrassatis, 2 mill. vix altis, flavo-viridibus, dein pallidis, globulo terminali, persistenti pallidiore; sporulis minutis ovatis, hyalinis.

Hab. in ligno putri carpineo et salicino, sociâ *Lusiosphæriâ hispidâ* cujus, teste Fuck., est spermogonium, in Rhenogovia.

5. **Sphæronæmella rufa** (Fr.) Sacc. *Sph. rufum* Fr. S. M. II. p. 536. 3308
— Peritheciis subulatis, acutis, rufis, deorsum pallidioribus, globulo limpido pallidiore; sporulis perexiguis oscillantibus globosis; basidiis fasciculatis 25 μ . longis.

Hab. in lignis Pini inque Magnolia et Clethra in Suecia et America boreali. — Gregaria, junior mollis rufa, dein indurata, fusca, semper levis glabra.

6. **Sphæronæmella cincta** (Corda) Sacc. *Sph. cinctum* Corda Ic. IV. 3309
p. 39, f. 113. — Peritheciis solitariis majusculis, conicis, levibus, rufo-fuscis, supra in collum longum attenuatis, infra anulo basilari pallide fusco aculeolato cinctis; sporulis.....

Hab. in asseribus pineis, Prag Bohemiæ.

7. **Sphæronæmella aurantiaca** (Ces.) Sacc. *Sphæronæma? aurantiacum* Ces. Myc. Born. p. 24. — Peritheciis membranaceis, 5 mill. altis, ligulatis vel difformibus, apice angustato obtuso, sub lente composita longitudinaliter lineatis, (in sicco) compressis; sporulis minutissimis, ovoideis, hyalinis.

Hab. in truncis Ceylon et Kandy. — Verisimiliter spermogonium *Nectriæ* cujusdam.

8. **Sphæronæmella oxyspora** (Berk.) Sacc. *Sphæronæma oxysporum* 3311
Berk. Dec. of Fungi n. 136. — Peritheciis subulatis flavis apice nudis; sporulis ellipticis utrinque appendiculatis.

Hab. in hymenio Polypori et Merulii tremellosi, Waynesville, Ohio (LEA) et Forestburgh (PECK) Americæ bor. — «An *Eleutheromyces*, ascis prætervisis?».

9. **Sphæronæmella Helvellæ** Karst. Hedw. 1884, p. 18. — Peritheciis 3312
confertis, ovoideo-sphæroideis vel sphæroideis, flavescentibus, 120 μ . d. vel 150 = 135, rostro teretiusculo, apice penicillato, hyalino-albido, 300-350 = 20-35; globulo magno, rotundato ex albido fla-

vido; sporulis ellipsoideis, plerumque 1- vel 2-guttulatis, muco obvolutis, hyalinis, 7-13 \approx 4-6 μ . diam.

Hab. ad *Helvellam* infulam semiemortuam in Fennia.

ASCHERSONIA Mont. Syll. Crypt. n. 929 (Etym. a cl. F. M. ASCHERSON, Medico borusso, opellæ de fungis venenatis auctore). — Stromata carnosum, hemisphæricum, turbinatum v. pulvinatum, læte coloratum, primitus velo fugaci byssino concolori tectum. Perithecia (seu loculi) stromate subimmersa membranacea, tenuissima, erecta, fibroso-cellulosa porisque late apertis (tandem rimose confluentibus) pertusa. Basidia filiformia. Sporulæ fusiformes hyalinæ, continuæ subinde 3-4-guttulatæ spurieque septatæ. — Fungi phyllogeni, tropici, *Hypocreis* affines et paralleli, sed ascis carentes.

1. **Aschersonia tahitensis** Mont. Cent. VI. n. 11, p. 122, t. 6, f. 3, in 3313
Ann. Sc. Nat. 1848. — Stromate hemisphærico, truncato, obtuso luteo, 1-2 mill. diam.; peritheciis subquindenis erectis minutis, $\frac{1}{3}$ mill. diam., poris per rimulas conjunctis; sporulis minutis, fusoides utrinque acutissimis, 15 \approx 2, 4-guttulatis, hyalinis; basidiis filiformibus, 20-25 μ . longis.

Hab. in foliis cujusdam *Cyrtandræ* in Tahiti (J. LÉPINE).

2. **Aschersonia turbinata** Berk. Fungi St. Domingo n. 52. — Stro- 3314
matibus turbinatis, 3-4-fasciculatis, sursum liberis excavatisque, deorsum connatis, extus granulosis; peritheciis disco stromatis immersis, oblongis, in ostiola elongata vix exstantia productis, subhyalinis; sporulis fusoides continuis hyalinis, 9-10 μ . longis.

Hab. in foliis, plerumque epiphylla, S. Domingo (SALLÉ). — Habitus fere *Corynes sarcoidis*.

3. **Aschersonia basicystis** B. et C. Cub. Fungi n. 558. — Stromate 3315
breviter elevato, 2 mill. diam., apice plano pallide cervino, e strato orbiculari oriundo, brevissime stipitato; stipite cellulifero.

Hab. in foliis emortuis dejectis in Cuba. — Stromatis pars superior e cellulis radiantibus constat, quæ abeunt in floccos, ad cujus apicem loculi generantur.

4. **Aschersonia rufa** (B. et Br.) Sacc. *Myrosporium rufum* B. et 3316
Br. Ceyl. Fungi n. 793. — Placentæformis, rufa, nitida, collabens; sporulis subellipticis, 12-15 \approx 10.

Hab. in petiolis *Palmarum*, ut videtur, Peradeniya Ceylon. — Habitus omnino *Hypocrææ* collapsæ. Sec. Berk. ad *Myrosporium* Corda propius accedit, quod vero genus est *Myxomyces*, teste Frieso. Etiam, colore dempto, ad *Cocculariam* Corda nutat.

«Mihi vero e descriptione species ad *Aschersoniam* omnino referenda videtur».

5. **Aschersonia cubensis** B. et C. Cub. Fungi n. 557. — Stromate 3317
pallido, convexo, obtuso, carneo, pruinoso, apice leviter umbilicato, quandoque basi dilatata; sporulis fusiformibus acuminatis, 10 μ . long.

Hab. in pag. inf. frondis Pteridis in Cuba, River Amazon, Brasil.

6. **Aschersonia Placenta** Berk. F. of Ceyl. n. 799. — Flava, orbicularis, centro rugosa, margine membranaceo candido; sporulis breviter fusiformibus, 5 μ . longis. 3318

Hab. in foliis Loranthi et Memecyli capitellati in Ceylon et in insula Marquesas (E. IARDIN). — Tota superficialis, cocci ad instar.

7. **Aschersonia mellea** B. et Br. F. of Ceyl. n. 798. — Pulvinata, 3319
mellea, glabra. 2-3 mill. diam.; loculis demersis; sporulis subellipticis nucleatis.

Hab. in cortice emortuo in insula Ceylon australiore.

8. **Aschersonia duplex** Berk. F. New Zeal. p. 194. — Flava, rubiformis vel simplex cellulis majoribus minoribusque; sporulis oblongis angustis, 7-8 μ . longis, hyalinis, continuis. 3320

Hab. in foliis Asteliæ in Nova Zelandia (COLENSO).

9. **Aschersonia oxyspora** Berk. Decad. of Fungi n. 463 et 615^{bis} in 3321
Hook. Journ. — Stromate basi floccoso-expanso, leviter cylindrico ceraceo, depresso, centro 2 mill. diam., armeniacci vel carnei coloris; loculis paucis, irregularibus, magnis, subinde convolutis; sporulis oblongis, 10-15 μ . longis utrinque appendiculatis.

Hab. in foliis Myrsinearum etc. Khasia Indiæ et S. Carlos Brasiliæ.

DICHLÆNA Mont. et Dur. Fl. Alg. p. 405 (Etym. *dis* bis, et *chlæna* toga). — Mycelium floccoso-radiatum, floccis raris. Perithecia vitellina e tunica duplice composita, utraque membranaceo-cellulosa; exterior tandem prope basin circumscissa cupulam relinquens, interior vero tenuissima. Sporulæ simplices, hyalinæ, myriadeæ. Flocci vel basidia nulla observata.

1. **Dichlæna Lentisci** Mont. et Dur. Fl. Alg. p. 405, t. 2^{2bis}, f. 2. — 3322
Hypophylla, e flavo vitellina; perithecio exteriori subgloboso minute celluloso, basi brevissime radiatimque floccoso, tandem circumscisso, interiori tenuissimo venis laxè anastomosantibus per-

curso; sporulis numerosissimis, minutissimis globosis pellucidis, 3-3,5 μ . diam.; basidiis vel floccis nullis vel obsoletis.

Hab. in foliis *Lentisci* per totam Algeriam frequens (DURIËU).

PSEUDODIPLODIA Karst. Symb. Myc. Fenn. XV. p. 156, ut subgenus. (Etym. *Pseudo* et *Diplodia*, h. e. *Diplodia* spuria). — Perithecia subsuperficialia, globulosa, ceraceo-carnosa, madore fuliginea, mox ore lato aperta. Sporulæ ellipsoideæ 1-septatæ, dilute olivaceæ.

1. **Pseudodiplodia ligniaria** Karst. l. c. — Peritheciis laxè gregariis 3323 v. sparsis, emergenti-subsuperficialibus, applanatis, orbiculatis v. ellipsoideis, udis fuligineis (rubiginosis?), siccis nigrescentibus, primitus clausis, mox ore lato orbiculari v. oblongato apertis, intus (disco) pallescentibus, 0,2 mill. lat.; sporulis ellipsoideis utrinque obtusis, 1-septatis non v. vix constrictis, 10-13 = 6-8, 2-guttatis, dilute olivaceis.

Hab. in ligno vetusto prope Helsingfors Fenniæ.

STAGONOPSIS Sacc. (Etym. *Stagon*, pro *Stagonospora*, et *opsis* facies, h. e. *Stagonosporæ* analogum genus). — Perithecia erumpentia vel subsuperficialia, ceraceo-mollia, læticoloria (carnea etc.) globulosa. Sporulæ oblongæ vel subfusoideæ 2-pluriseptatæ, hyalinæ. — Plures species adsunt ab auctoribus ut formæ metageneticæ *Nectriæ* vel *Calonectriæ* obiter descriptæ.

1. **Stagonopsis pallida** (B. et C.) Sacc. *Hendersonia pallida* B. et C. 3324 North Amer. Fungi n. 429^{bis}. — Peritheciis sparsis, nudis, pallide carneis; sporulis arcuatis hyalinis, 7-8-septatis, 8-9-nucleatis.

Hab. in Corno, socio *Helminthosporio* quodam, Alabama in Amer. bor. — Probabiliter pycnidium *Calonectriæ* cujusdam.

CHIASTOSPORA Riess in Fres. Beitr. Myk. p. 43 (Etym. *chiastos* decussatus, et *spora*). — Perithecia sublentiformia, mollia, pallida, ostiolo rotundo dehiscentia. Sporulæ decussatæ, 4-radiatæ, hyalinæ, septatæ radiis inæqualibus. Basidia monospora, septata, hyalina.

1. **Chiastospora parasitica** Riess in Fres. l. c. t. V. f. 18-21. — 3325 Peritheciis lentiformibus, pallidis, flavidis vel dilute fuscis $\frac{1}{10}$ - $\frac{1}{5}$ mill. diam.; basidiis cylindrico-clavulatis septatis, fasciculatis hyalinis; sporulis 4-radiatis (sæpius ad instar X), hyalinis, 22-25 μ . longis, 4-6-septatis, radiis inæqualibus acutiusculis.

Hab. ad ostiolum Massariæ pyxidatæ prope Cassel in Germania.

POLYSTIGMINA Sacc. (Etym. a *Polystigma*, cujus analogum et metageneticum genus). — Stroma phyllogenum, subdiscoideum, convexo-planum, carnosulum, amœne rubescens, intus pluriloculare. Sporulæ filiformes subuncinatae, continuæ, hyalinæ.

1. **Polystigmia rubra** (Desm.) Sacc. *Septoria rubra* Desm. 10 Not. 3326 p. 8, *Libertella rubra* (Desm.) Bon. — Hypophylla; stromate suborbiculari, carnosulo, planiusculo vel convexo rubro, demum rufofusco; peritheciis minutissimis, numerosis, saturatoribus, immer-sis; ostioli punctiformibus; cirris albidis; sporulis linearibus, rectis curvatis vel subuncinatis, 6-9-nucleolatis, 25-30 \approx 1-1,5.

Hab. in foliis Pruni domesticæ et spinosæ in Gallia, Germania, Italia, Austria. — ***amygdalina** Desm. l. c.: maculis brunneo-nigricantibus, in ambitu aurantiis. In foliis vivis Amygdali in Gallia et Italia. — Spermogonium *Polystigmatis rubri*. — *Libertella fulva* Thüm. M. U. n. 1195 est verum *Polystigma ochraceum* seu *fulvum*, optime ascophorum: ascis 70-80 \approx 13-15; sporulis 14-15 \approx 6.

HYSTEROMYXA Sacc. et Ellis Mich. II. p. 574 (Etym. *Hysterium* et *myxa*, ob affinitatem cum Myxomycetibus). — Perithecia (genuina?) superficialia, applanata, ambitu oblonga vel subangulosa, læte colorata, rimose vel substellatim dehiscentia; contextu tenui, irregulariter celluloso (?), cuticula anhistia diaphana obducto. Sporulæ (conidia?) copiosæ, globulosæ, læte coloratæ; basidia nulla (vel saltem non visa). — Genus adhuc dubium et ulterius vivum inquirendum, hinc ad *Myxomycetes*, illinc ad *Sphærosideas subcupulatus* nutans.

1. **Hysteromyxa effugiens** Sacc. et Ellis Mich. II. p. 574. — Peri- 3327 theciis exiguis, applanatis, superficialibus, rubellis, $\frac{1}{6}$ mill. diam.; sporulis (conidiis?) globosis, levibus, 8-10 μ . diam., 3-4-guttulatis e hyalino roseis; basidiis nullis visis.

Hab. ad folia emortua Cupressi thyoidis, Newfield N. J. Amer. bor. (ELLIS). — Contextus perithecii videtur formatus e cuticula anhistia cui cellulæ subrotundæ variæ rufulæ laxè adhærent.

PATELLINA Speg. Fung. Arg. III. n. 164 (Etym. a *patella* ob formam perithecii). — Perithecia patellari-cupulata, glabra, carnosula, sessilia, speciosa. Sporulæ globosæ vel ellipticæ, continuæ, hyalinæ, in basidiis cylindricis acrogenæ.

1. **Patellina italichroma** Speg. Fung. Arg. Pug. III. n. 164. — Pe- 3328
 ritheciis orbiculari-applanatis, sæpe confluendo difformibus, carno-
 so-ceraceis, hypothecio crassiusculo, obscure viridi, margine can-
 dido, contextu parenchymatico, olivascente; epithecio amœne auran-
 tiaco vel roseo-carneo; sporulis ellipticis vel ovoideis, biguttulatis,
 continuis, hyalinis, 3-4 \approx 1,5, in basidiis filiformibus prælongis, 80-
 120 \approx 1, acrogenis.

Hab. in palo vetusto subputrido Meliæ Azedarach prope
 el Retiro, Buenos Aires Argentinae. — Species perpulchra! Jove
 pluvio, epithecium defluit ac apothecium album cavum manet.

CYPHINA Sacc. (Ety. *cyphos* vas concavum), *Excipula* Peck e. p.
 — Perithecia excipuliformia, minuta, læticoloria (flava vel auran-
 tiaca) pilis mollibus albidis vestita. Sporulæ oblongæ, continuæ,
 hyalinæ. — «Forte *Volutellæ* analogæ».

1. **Cyphina lanuginosa** (Peck) Sacc. *Excipula lanuginosa* Peck Rep. 3329
 on the St. Mus. N. York, cum icone. — Peritheciis excipulifor-
 mibus minutis, flavidis vel aurantiacis, copiosis, plerumque pilis
 longis, mollibus, sordide albis; sporulis oblongis, hyalinis, 7-8,5
 μ . longis.

Hab. in caule Meliloti, Bethlehem Amer. bor. — Peritheciis
 læte coloratis et pilis pallidis ab *Excipulis* mox dignoscitur.

REPERTORIUM

SPHÆROPSIDEARUM NECTRIOIDEARUM

SECUNDUM MATRICES

Obs. A. indicat *Aschersonia*. — Ch. *Chiastospora*. — Co. *Collacystis*. — Cy. *Cyphina*. — D. *Dichlæna*. — H. *Hysteromyxa*. — L. *Libertiella*. — P. *Pseudodiplodia*. — Pa. *Patellina*. — Po. *Polystigmia*. — R. *Roumeguèriella*. — S. *Sphæronæmella*. — St. *Stagonopsis*. — Z. *Zythia*.

N. 3291 — 3329 citantur 291 — 329

- | | |
|----------------------------|-------------------------------|
| Amygdalus — Po. 326. | Melia — Pa. 328. |
| Astelia — A. 320. | Melilotus — Cy. 320. |
| Beta — Z. 298. | Memecylus — A. 318. |
| Brassica — Z. 296. | Mercurialis — Z. 295. |
| Carpinus — S. 307. | Merulius — S. 311. |
| Clethra — S. 308. | Myrsineaceæ — A. 321. |
| Cornus — Z. 291. — H. 324. | Myrtaceæ — Z. 292. |
| Cupressus — H. 327. | Palmaceæ — A. 316. |
| Cyrtandra — A. 313. | Peltigera — L. 303. |
| Hedera — S. 304. | Pinus — S. 305. 308. 309. |
| Helvella — S. 312. | Polyporus — Z. 300. — S. 311. |
| Larix — S. 306. | Prunus — Po. 326. |
| Lentiscus — D. 322. | Pteris — A. 317. |
| Loranthus — A. 318. | Punica — Z. 293. |
| Magnolia — S. 308. | Quercus — S. 305. |
| Massaria — Ch. 325. | Rhinanthus — Z. 299. |
| | Salix — S. 307. |

Fam. 3. Leptostromaceæ Sacc.

Dimidiato-scutatæ Sacc. Mich. II. p. 8.

Perithecia plus v. minus distincte dimidiata, scutiformia, astoma v. ostiolata v. hysterioideo-rimosa, membranacea v. carbonacea, atra, erumpentia v. superficialia.

Clavis analytica generum.

Sect. 1. Hyalosporæ Sacc.

Sporulæ globosæ v. ellipsoideæ v. oblongæ, continuæ, hyalinæ.

I. Perithecii contextus distincte parenchymaticus.

A) Perithecia astoma v. varie hiantia, sed non longitudinaliter rimosa.
Leptothyrium. Perithecia depresso-clypeata, plerumque facile secedentia; basidia obsoleta.

Piggotia. Perithecia irregularia, depressa, non secedentia, sæpe stellatim digesta; basidia columnaria.

Melasmia. Perithecia irregularia, depressa, stromate phyllogeno atro innata; basidia obsoleta.

Actinothecium. Perithecia clypeata et stellatim rimosa, sæpe vero in radios hysteriiformes, lanceolatos, sulcatos divisa; basidia obsoleta (Transit ad B).

B) Perithecia distincte v. obsolete longitudinaliter rimosa, subhysterioidea.

Leptostroma. Perithecia lanceolata v. elongata, sæpe demum secedentia, subcarbonacea. (Plurium specierum fructificatio latet).

Labrella. Perithecia subcircularia, non secedentia, sæpe spuria.

II. Perithecii contextus subanhistus, punctulatus (non vere cellulosus).

Sacidium. Perithecia clypeata; sporulæ globosæ, ellipsoideæ v. oblongæ (Plures species, ignoto contextu, forte ad *Leptothyrium* ducendæ).

Sect. 2. Phæosporæ Sacc.

Sporulæ globulosæ v. ellipsoideæ, continuæ, fuscæ.

Pirostoma. Perithecia scutiformia, centro umbilicato-pertusa.

Sect. 3. Phragmosporæ Sacc.

Sporulæ oblongæ, hyalinæ, 2-pluriseptatæ v. 4-loculares, loculis subcruciatim positis.

Discosia. Sporulæ fusoidæ, 2-pluriseptatæ, utrinque 1-ciliatæ.

Entomosporium. Sporulæ cruciato-tetrameræ, loculis omnibus 1-ciliatis.

Sect. 4. *Scolecosporæ* Sacc.

Sporulæ filiformes v. bacillares, continuæ v. septatæ, hyalinæ.

658 *Actinothyrium*. Perithecia clypeata subastoma margine eximie radiatim fimbriata.

658 *Melophia*. Perithecia clypeata subastoma, corrugata, margine non fimbriata.

659 *Leptostromella*. Perithecia elongata, longitrorsum rimosa, hysteroidea.

LEPTOTHYRIUM Kunze et Schm. Myk. Heft. II. p. 79, em. Sacc. Mich. II. p. 114, n. 955 (Etym. *leptos* tenuis, et *thyreos* scutum). — Perithecia dimidiata, scutiformia, membranaceo-carbonacea, atrata v. varie hiantia, dein circumscisso-soluta, contextu plerumque distincte celluloso-radiato, subinde tamen spurio et ex epidermide mutata et atrata formato. Sporulæ ovoideo-oblongæ v. fusoidæ, continuæ, hyalinæ.

I. *In plantis dicotyledoneis arboreis.*

A) Follicolæ.

1. **Leptothyrium Periclymeni** (Desm.) Sacc. *Labrella Periclymeni* 3330

Desm. 16 Not. p. 358 (1849) *Leptothyrium pictum* B. et Br. Ann. N. H. n. 1450 (1875), Sacc. Mich. I. p. 94 et F. ital. t. 93. *Depazea Xylostei* Pass. Hedw. 1877, pag. 117. *Phyllosticta Vossii* Thüm. in Voss Mat. p. 48 cum icone; an *Phyllosticta Loniceræ* West.? — Maculis subolivaceis dein arescendo expallentibus, subrotundis, subinde fusco-marginatis; peritheciis sparsis epiphyllis, innato-erumpentibus, scutiformibus, atris, radiatim textis, dein radiatim dehiscentibus; sporulis oblongis rostrato-recurvis, 25 ≈ 8-10, guttulatis, hyalinis.

Hab. in foliis *Loniceræ Xylostei* et *L. Caprifolii* in Britannia, Italia, Lusitania, Gallia et Austria.

2. **Leptothyrium Coryli** Lib. in Cooke Grevill. — Maculis magnis, 3331 orbiculatis, fuscis; peritheciis hypogenis, sparsis, minimis, planiusculis, rugosis, nigris, basi circumscissis; pulpa grisea; sporulis ovatis, binucleatis, pellucidis.

Hab. in foliis *Coryli Avellanæ* in Arduennis.

3. **Leptothyrium corylinum** Fuck. Symb. p. 120, Sacc. Syll. I. p. 419. 3332 — Peritheciis scutiformibus in macula exarida obscuriori sparsis,

demum applanatis plicatisque, atro-fuscis, nitidis, minutissimis; sporulis vermicularibus curvatis, linearibus, multiguttulatis, hyalinis, $18 \approx 2$.

Hab. in pag. inf. foliorum Coryli Avellanæ in Germania, Lusitania. — Spermogonium *Gnomoniellæ Coryli*.

4. **Leptothyrium alneum** (Lév.) Sacc. Mich. I. p. 202. *Melasmia al-* 3333
nea Lév. Ann. Sc. nat. 1848, p. 252. — Peritheciis scutiformibus convexo-planis, atris, dein radiatim subplicatis; sporulis botuliformibus, curvulis, $8-9 \approx 1\frac{1}{2}-2$, hyalinis.

Hab. in foliis languidis Alni glutinosæ et A. serrulatæ in Gallia, Italia, Britannia et America boreali. — An status provector *Glæosporii cylindrospermi* (Bonorden)? — Aptius omnimode *Leptothyrio* quam *Melasmice* adscribenda species.

5. **Leptothyrium Pini** (Corda) Sacc., *Sacidium Pini* (Corda) Fr. Sum- 3334
ma p. 420. *Coniothyrium Pini* Corda Ic. fung. IV. p. 38, fig. 105. — Hypophyllum, minutissimum; perithecio verruciformi fusco celluloso, dein circumscisso v. lobato; sporulis magnis ovato-oblongis, hyalinis, episporio tenui, $16-18 \mu$. longis.

Hab. in foliis Pinorum et Abietum in Bohemia, Germania, Austria, Italia boreali, America sept. — Contextus cellulosus manifestissimus.

6. **Leptothyrium Betulæ** Fuck. Symb. myc. pag. 383. — Peritheciis 3335
(spuriis?) gregariis, punctiformibus, scutiformibus, orbicularibus, atro-nitidis; sporulis minutissimis, cylindræis, curvatis, circ. $4 \approx 1$, hyalinis, in sterigmatum simplicium apicibus.

Hab. in foliis putrescentibus Betulæ albæ in Mittelheimer Wald Rhenogoviæ.

7. **Leptothyrium? botryoides** Sacc. Mich. II. p. 168. — Peritheciis 3336
convexo-scutiformibus, atro-nitentibus, amphigenis, $\frac{1}{6}-\frac{1}{8}$ mill. d., dein botryoso-corrugatis, contextu minute parenchymatico fuliginæo; sporulis cylindræis, utrinque obtusiusculis, $12-15 \approx 2$, sæpissime (normaliter?) catenulatis, nubiosis, hyalinis, basidiis conformibus suffultis.

Hab. in foliis aridis Fagi silvaticæ, socio *Coccomycete coronato*, cujus verisimiliter spermogonium, in M. Sol (Possagno), Ital. bor. (A. Rossi). — A genere recedit et ulterius observandum.

8. **Leptothyrium Populi** Fuck. Symb. myc. p. 383, t. II. fig. 29. — 3337
Peritheciis (spuriis?) maximis clypeatis, atro-nitentibus, amphigenis; sporulis cylindræo-fusoideis rectis curvulisve, utrinque acutiusculis, hyalinis, $10-12 \approx 1,5-2$, utrinque obtusis.

Hab. in foliis Populi nigræ et pyramidalis pr. Hattenheim Rhenogoviæ et Padova Italiæ borealis.

9. **Leptothyrium maculicolum** Winter. Cont. Myc. Lus. n. 794. — Peritheciis in macula magna, exarida, grisea, angustissime fusco-cincta, angulata, 8-20 mill. lata, sparsis, epiphyllis, disciformibus, atris, subcutaneis, circa 250 μ . diam.; sporulis ovatis vel piriformibus, antice late rotundatis, continuis, pallidissime coloratis, 15-16 \approx 8-9.

Hab. in foliis vivis Quercus Suberis, Lombardia pr. Coimbra Lusitaniæ.

10. **Leptothyrium dryinum** Sacc. Mich. I. p. 202. — Peritheciis punctiformibus, 50-80 μ . diam., superficialibus, scutiformi-applanatis, atris e cellulis fibrosis radiantibus, circumcirca fimbriatis compositis, medio deliscentibus; sporulis ratione perithecii majusculis, ovoideis, 10-12 \approx 7, minute pluriguttulatis, fuscidulis.

Hab. in foliis nondum emortuis Quercus pedunculatæ in silva Montello Italiæ bor. nudo oculo vix percipiendum. — Ob formam perithecii ad *Actinothyrium* vergit, sed fabrica sporularum maxime differt.

11. **Leptothyrium quercinum** (Lasch) Sacc. Mich. II. p. 113. — *Leptostroma quercinum* Lasch in Kl. H. M. n. 1075. — Peritheciis dimidiatis, subcircularibus v. angulosis, nitidis, planis, minutis, obsolete radiato-contextis; sporulis bacillari-navicularibus, 9 \approx 1,5, hyalinis.

Hab. in foliis dejectis Quercus Roboris et Suberis in Germania, Italia, Gallia, sæpe socio st. ascoph. *Coccomyete dentato* (Kunze et Schm.) Sacc.

12. **Leptothyrium Castaneæ** (Spr.) Sacc. Mich. p. 631. *Leptostroma Castaneæ* Spr. Syst. Veg. IV. pag. 538. *Xyloma geographicum* Pers., *Sphaeria castaneicola* DC. p. p. — Peritheciis subcircularibus v. angulosis, planis, nigris, nitidis, minutis; sporulis cylindraceis, 5-6 \approx 0,7, hyalinis.

Hab. in foliis dejectis Castaneæ vescæ in Germania, Italia, Lusitania. — Spermogonium *Coccomycelis dentati* (Kunze et Schm.) Sacc. f. *Castaneæ*.

13. **Leptothyrium Rosarum** Cooke Grev. XII. p. 25. — Hypophyllum; peritheciis discoideis, applanatis, atris, hinc illinc aggregatis; sporulis ovato-ellipticis, hyalinis, 3,5 \approx 2.

Hab. in foliis Rosarum in Carolina inf. (RAVENEL).

14. **Leptothyrium cinctum** Cooke Grev. XII. p. 25. — Hypophyllum; 3343

peritheciis subangulatis, minutis, applanatis, fuscis, circumcirca annulo pallescente cinctis; sporulis ovalibus, hyalinis, $5 \approx 2,5$.

Hab. in foliis Cerasi serotinæ in Carolina infer. (RAVENEL).

15. **Leptothyrium Libertianum** (Thüm.) Sacc. Mich. II. p. 631, *Sacidium Libertianum* Thüm. Hedw. 1880, p. 190. — Peritheciis disciformibus atris, dein secedentibus, minutis, contextu parenchymatico distincto; sporulis ellipsoideis, $7-8 \approx 6\frac{1}{2}-7$, hyalinis.

Hab. in foliis languidis Pruni Padi in Arduennis (LIBERT). — Quum contextus adsit, est mihi potius *Leptothyrium* quam *Sacidium*.

16. **Leptothyrium Rubi** (Duby) Sacc. Mich. II. p. 351. *Sphæria* (Dothidea) *Rubi* Duby Bot. Gall. II. p. 712. — Peritheciis clypeatis, radiato-contextis, areolis foliorum dealbatis insidentibus, 150 μ . diam.; sporulis teretiusculis, $4-4\frac{1}{2} \approx \frac{3}{4}$, hyalinis, basidiis bacillaribus, interdum ramulosis (!), $20 \approx 1-2$ suffultis.

Hab. in utraque pagina foliorum languentium Rubi in Gallia et Algeria. — Species *Leptothyrio clypeosphærioide* Sacc. multo minor.

17. **Leptothyrium myrtinum** (Dur. et Mont.) Speg. F. Arg. Pug. IV. n. 305. *Pilidium myrtinum* Dur. et Mont. Fl. Alg. I. p. 598, t. 26, f. 8. — Maculis amphigenis, magnitudine variis, 2-4 mill. diam., indeterminatis, pallescentibus; peritheciis paucis, atris, centralibus, parvulis, 120-150 μ . diam., primo epidermide integra tectis, dein ea lacerata, cinctis; sporulis cylindraceo-allantoideis, longiusculis, utrinque inæquilateraliter rotundato-acutatis, $20 \approx 2$, continuis, hyalinis.

Hab. ad folia dejecta putrescentia Myrtacearum in Algeria (DURIEU), in Chili (GAY) et prope Apiahy Brasiliæ meridionalis (J. PUIGGARI).

18. **Leptothyrium ilicinum** Sacc. — Maculis nullis; peritheciis amphigenis sed sæpius hypophyllis, planiuscule scutatis, subcircularibus, $\frac{1}{5}-\frac{1}{3}$ mill. diam., minute celluloso-contextis, varie dehiscensibus, ambitu inæqualibus; sporulis rectis bacillaribus utrinque obtusis, $20-25 \approx 3$, e hyalino dilutissime olivaceis, in basi stromatica sessilibus.

Hab. in foliis emortuis et dejectis Quercus Ilicis in collibus Euganeis Ital. bor.

19. **Leptothyrium petiolorum** (C. et Ell.) Sacc. *Leptostroma petiolorum* C. et E. New Jersey Fungi in Grevillea. — Sparsum, orbi-

culare scutellatum, nigrum; sporulis minimis, linearibus, rectis, hyalinis, 5 μ . longis.

Hab. in petiolis Ailanthi, New Jersey.

20. **Leptothyrium discoideum** (Cooke) Sacc. *Leptostroma discoideum* 3349
Cooke Grev. 1880, p. 11. — Epiphyllum, punctiforme, sparsum, convexum, atrum; sporulis minutis, linearibus, hyalinis, rectis, 6 μ . longis.

Hab. in foliis Coffeæ arabicæ, Venezuela (Doct. ERNST). — Habitus fere *Microthyrii*.

21. **Leptothyrium sibiricum** Thüm. Pilzfl. Sibir. n. 801. — Perithe- 3350
ciis amphigenis sed plerumque hypophyllis, sparsis, sine ordine dispositis, applanatis, orbiculatis, emersis, levibus, submagnis, nigris; sporulis numerosissimis, late spathulatis vel interdum botuliformibus, utrinque angustato-truncatis, rectis, raro subarcuatis, episporio crassissimo levi, subachrois vel plerumque dilute flavescenscentibus, 20-22 \approx 7-8.

Hab. in foliis vivis Tragopyri lanceolati (*Polygoni frutescentis* Lin.) pr. Minussinsk Sibiricæ asiaticæ.

22. **Leptothyrium acerinum** (Kunze) Corda Icon. II. p. 25, t. XII. f. 3351
92. Fuck. Symb. t. II. f. 30. *Pilidium acerinum* Kunze Myk. Heft. II. p. 92, t. II. f. 5. — Peritheciis (spuriis) hypophyllis applanatis, minutis, nigris, demum per 3-5 dentes laciniatim dehiscentibus, intus albidis; sporulis cylindræco-fusoideis, falcatis, 10-14 \approx 1½-2, hyalinis, initio sterigmatibus filiformibus, 10-12 \approx 1 suffultis.

Hab. in foliis Aceris campestris et Aceris platanoidis in Germania, Italia, Gallia, Austria, Britannia.

23. **Leptothyrium Coriariæ** (Berk.) Sacc. *Pilidium Coriariæ* Berk. 3352
Fl. New Zeal. p. 195. — Peritheciis subrigidis demum centro perforatis collabascenscentibus; sporulis curvulis linearibus utrinque subattenuatis, 16-17 μ . diam.

Hab. in foliis emortuis Coriariæ sarmentosæ in Nova Zelandia (COLENSO).

24. **Leptothyrium? foraminulatum** Sacc. et Ell. Mich. II. p. 375. — 3353
Peritheciis gregariis superficialibus, punctiformibus, scutato-planis, astomis, nigris; contextu parenchymatico radiato, cellulis sæpe cuboideo-oblongis fuliginis, excentrice minute hyalino-uni-punctatis (simulate foraminulatis); sporulis... non visis.

Hab. in foliorum pagina superiore Ilicis opacæ, Newfield

Amer. bor. (ELLIS). — Etsi fructificatio ignota, species ob cellulas peritheci punctulata distincta videtur.

B) Ramicolæ

25. **Leptothyrium clypeosphærioides** Sacc. Mich. II. p. 114. — Peri- 3354
theeciis gregariis, superficialibus, (an epidermide tenuissima vela-
tis?) scutato-planis, 250 μ . diam., atris, nitidis; contextu paren-
chymatico, subradiato, ad centrum tenuiore; sporulis cylindræis,
rectiusculis, utrinque obtusis, 5-6 \approx 1, hyalinis, basidiis 7-10 \approx 1
 $\frac{1}{4}$, e strato fuscidulo oriundis, suffultis.
Hab. in sarmentis Rubi fruticosi pr. Rouen Galliæ (MAL-
BRANCHE).
26. **Leptothyrium Celastri** B. et C. North Am. Fungi n. 392. — Su- 3355
perficiale, orbiculare, atrum, gregarium; sporulis cylindricis, 25
 μ . longis.
Hab. in ramulis Celastri, New England Amer. bor. (MURRAY).
27. **Leptothyrium Cytisi** Fuck. Symb. myc. p. 383, t. I. f. 31. — Pe- 3356
ritheciis spuriis oblongis orbicularibusque, usque ad lineam longis,
convexis, demum planis, rugulosis, nitidis, atro-fuscis; sporulis con-
tinuis, cylindræis, curvatis, 26 \approx 2, hyalinis.
Hab. in ramis siccis Cytisi sagittalis pr. Eberbach Rhe-
nogoviæ et in Arduennis. — «Cellulæ peritheci tortuosæ, fuli-
gineæ; sporulæ bacillari-curvulæ 16-25 \approx 1 $\frac{1}{2}$ -2, hyalinæ, basidiis
teretibus, 6-8 \approx 2, hyalinis suffultæ.»
28. **Leptothyrium Passerinii** Thüm. Weinst. p. 152. — Peritheciis 3357
magnis, gregariis, late elongatis, planis, seriatis, subepidermicis
vel epidermidem perforantibus, glauco-nigris, sublevibus; sporulis
perpaucis, tenuissimis, minutissimis, ovoideis, utrinque rotundatis,
simplicibus, achrois, 1,5-2 \approx 1.
Hab. ad sarmenta subputrida Vitis viniferæ, Parma in Ita-
lia bor. (PASSERINI).
29. **Leptothyrium perpusillum** Pass. et Thüm. Weinst. p. 152. — Pe- 3358
ritheciis minutissimis, gregariis, subprominulis, subconicis, epider-
midem perforantibus, liberis, atris; sporulis cylindræo-ellipticis
vel subclavulato-cylindricis, rectis, vertice obtuse rotundatis, sub-
dilatatis, basi leniter angustatis, uniseptatis (genuine?), medio non
constrictis, numerosissimis, hyalinis, 6-8 \approx 3.
Hab. ad sarmenta arida Vitis viniferæ, Parma in Italia
boreali (PASSERINI).

C) Fructicolæ.

30. **Leptothyrium Pomi** (Mont. et Fr.) Sacc. Mich. II. p. 113. *La-* 3359
brella Pomi M. et Fries Not. etc., in Ann. 2, I. p. 347 et Mont.
 Syll. n. 991. — Macula nulla; peritheciis dimidiatis subcirculari-
 bus v. ellipticis minimis nitidissimis. contextu subradiato, fuligi-
 neo, nucleo albo-celluloso..... asporo viso.
Hab. in epicarpio fructuum Piri Mali in Gallia et in Rhode
 Island.
31. **Leptothyrium carpophilum** Pass. Thüm. Myc. univ. n. 1081. — 3360
 Maculis subdiscoideis v. confluentibus, fusco-atris; peritheciis spar-
 sis, atris, conico-depressis, basi circumscissa secedentibus; sporulis
 elongato-fusiformibus, curvis vel flexuosis, intus nucleolatis, inte-
 gris vel obscure septatis, hyalinis.
Hab. in fructibus Piri communis diu servatis, Parma Ital.
 bor. (PASSERINI).
32. **Leptothyrium conigenum** Peyl Lotos 1857, p. 63, n. 10 fig. 10 3361
 (non vidi).
Hab. in strobilis Coniferarum in Bohemia meridionali.
33. **Leptothyrium Leguminum** (Cooke) Sacc. *Leptostroma Legumi-* 3362
num Cooke in Grevillea. — Punctiforme, sparsum, sub epidermi-
 de nidulans, brunneum, superne porosum; sporulis ovoideis, hya-
 linis, 5 ≈ 3.
Hab. in leguminibus Clitoreæ, Madras Indiæ.
- II. In plantis dicotyledoneis herbaceis.
- A) Follicolæ.
34. **Leptothyrium asterinum** B. et Br. Ann. N. II. n. 1901. t. III. 3363
 f. 1. — Maculiforme, incrassatum, rubro-marginatum; sporulis
 oblongis, curvis binucleatis, 25-38 μ . longis; basidiis bacillaribus.
Hab. in foliis Asteris Trifolii, Fleetwood Britanniae (A.
 BLOXAM).
35. **Leptothyrium punctiforme** B. et C. North Am. Fungi n. 394, 3364
 Peck Rep. 23 on the St. Mus. — Sparsum, minutum, hypophyl-
 lum superficiale absque macula; sporulis oblongis, curvulis, 20
 μ . longis.
Hab. in foliis Erigerontis, Massachussets Amer. bor. —
 Perithecia punctiformia.
36. **Leptothyrium Brassicæ** Pr. Fung. Hoyersw. n. 19. — Erumpens, 3365
 hemisphærico-rugosum; peritheciis carbonaceis, atris, intus dilute

fuscis, secedentibus; sporulis elongatis, utrinque rotundatis, albis, diaphanis, continuis.

Hab. in foliis Brassicæ oleraceæ, Hoyerswerda.

37. **Leptothyrium glomerulatum** Sp. Fungi Arg. Pug. II. n. 129. — 3366

Peritheciis in acervulos parvulos 1-3 mill. diam. coacervatis, matri-
trici stromatice nigrificata innato-prominulis, atris, minutis, 100-
120 μ . d. membranaceis, contextu parenchymatico-subindistincto,
atro-fuligineo; sporulis ellipticis vel ovoideis, granuloso-farctis,
hyalinis, 12 \approx 8.

Hab. ad nervos petiolosque Ipomææ gossypoidis in Cor-
rientes Argentinae (BERG).

38. **Leptothyrium Lychnidis** B. et C. North Am. F. n. 393. — Maculis 3367

pallidis; peritheciis punctiformibus; sporulis oblongis, utrinque irre-
gularibus (*hollowed out*), 10 μ . long.

Hab. in foliis Lychnidis Floris-cuculi, Alabama Amer.
bor. (PETERS).

39. **Leptothyrium Passifloræ** B. et C. Cub. Fungi n. 553. — Macu- 3368

lis pallidis; peritheciis parvis irregularibus subpunctiformibus; spo-
rulis oblongis utrinque obtusis hyalinis, 15 \approx 5.

Hab. in pag. super. pilosa foliorum Passifloræ cujusdam
trilobæ in insula Cuba. — Pili in areis expallentibus fere eva-
nescunt.

40. **Leptothyrium macrothecium** Fuck. Symb. mycol. p. 383, tab. II. 3369

fig. 28. — Peritheciis (spuriis?) sparsis dimidiatis, pro genere ma-
jusculis, astomis, aterrimis: sporulis cylindraceo-fusoideis, 7-8 \approx
1½-2, curvatis, hyalinis.

Hab. in foliis Potentillæ, Tormentillæ, Quercus, Ro-
sæ, Rubi in Germania et Italia.

B) Caulicolæ.

41. **Leptothyrium vulgare** (Fr.) Sacc. Mich. II. p. 113. *Leptostroma* 3370

vulgare Fr. Symb. Myc. II. p. 599. — Peritheciis gregariis sub-
circularibus, planis, nitidis, 300-400 μ . diam., facile secedentibus,
contextu parenchymatico obsolete radiato; sporulis botuliformibus,
utrinque obtusiusculis, curvulis, 7 \approx 1,5-2, hyalinis.

Hab. in caulibus emortuis Aconiti, Actææ, Senecionis,
Lunariæ, Cimicifugæ, Teucree etc. in Suecia, Gallia, Italia,
Germania, Lusitania, Sibiria. — β . **Angelicæ** Karst. Symb. myc.
Fenn. XIII. p. 13: sporulis elongatis utrinque obtusiusculis, rectis

v. leviter curvis, 5-6 \approx 1-1,5. In caule Angelicæ in insula maris glacialis Kildin dicta.

42. **Leptothyrium Scorodonæ** (Lib.) Sacc. *Leptostroma Scorodonæ* 3371

Lib. in Herb. et Cooke in Grev. — Subrotundum, inæquale subconfluens, tenue, leve, nigrum, totum secedens, macula nigra; sporulis minutissimis, hyalinis.

Hab. in caule Teucris Scorodonæ in Arduennis. — Sec. Speg. est var. *Lept. vulgaris*.

43. **Leptothyrium alpestre** Sacc. Mich. II. p. 114. — Peritheciis pla- 3372

no-scutatis, superficialibus, 200 μ . diam., nitidis, astomis, contextu eximie radiato, margine non fimbriato; sporulis botuliformibus, parum curvis, utrinque subrotundatis, 8 \approx 1 $\frac{1}{2}$, hyalinis.

Hab. in caule Sonchi alpini in Vogesis (MOUGEOT, una cum n. 108 Roum. F. Gall.).

44. **Leptothyrium fœdans** (Ces.) Sacc. *Sacidium fœdans* Ces. in Kl. 3373

Herb. Myc. II. n. 61. — Peritheciis minutis disciformibus, dense gregariis maculasque effusas formantibus; sporulis exiguis allantoides, 4 \approx 0,7, hyalinis.

Hab. in caule *Salviæ glutinosæ*, Treviso et Vercelli in Italia boreali.

45. **Leptothyrium Lunariæ** Kunze Myk. Heft. II. p. 79. Sacc. Syll. 3374

II. p. 666. — Peritheciis minutis disciformibus, nigris, nitidis, centro umbonatis, radiato-contextis, pertusis, primo sparsis, dein confluentibus; sporulis anguste fusoideis, hyalinis, curvulis, 10-12 \approx 2.

Hab. in caulibus et siliquis *Lunariæ redivivæ* in Germania et Austria. — Spermogonium *Microthyrii Lunariæ*.

46. **Leptothyrium Medicaginis** Pass. in Roum. Rev. Mycol. — Peri- 3375

theciis sparsis, punctiformibus, melleis tandem fuscis, centro perforatis, cellulis subhexagonis contextis; sporulis oblongis, apicibus rotundatis, bi-plurinucleolatis, hyalinis, 10-15 \approx 3-5.

Hab. in caulibus languidis et aridis *Medicaginis sativæ* pr. Parmam Ital. bor.

47. **Leptothyrium Thalictri** Thüm. Contr. Myc. Lus. n. 582. — Pe- 3376

ritheciis gregariis, parvulis, globulosis, nigris, liberis, emersis; sporulis fusiformi-bacillaribus, utrinque subobtusatis, continuis, rectis vel raro subarcuatis, hyalinis, 10-12 \approx 2.

Hab. in caulibus emortuis *Thalictri flavi*, Villa Franca pr. Coimbra (MOLLER).

48. **Leptothyrium Urticæ** Pr. F. Hoyersw. n. 143. — Peritheciis soli- 3377

tariis vel connatis, gregariis pulvinatis, subplicatis, papillatis, atris,

secedentibus seu circumscisso-solutis; contextu perithecii celluloso; nucleis luteis fluxilibus gelatinosis; sporulis minutis numerosis obovato-cylindricis, pellucidis.

Hab. ad caules *Urticæ* dejectos, Hoyerswerda.

49. **Leptothyrium scutiforme** (Fr.) Sacc. *Sphæria scutiformis* Fr. 3378
Elench. II. p. 105. — Peritheciis applanatis, orbicularibus, concentricè striatis, atris, intus concoloribus; nucleo centrali incluso atro.

Hab. ad caules herbarum exsiccatos pr. Rouen Galliæ (LÉVIEUX). — Perithecium exterius basi deficiens, tantum superum scutulas sistit orbiculares, applanatas, basi cauli adnatas, lineam æquantas, extus concentricè striatas, opacas, atras, in centro umbonatas.

50. **Leptothyrium Ptarmicæ** (Desm.) Sacc. Mich. II. p. 114. *Labrella Ptarmicæ* Desm. Exs. n. 149 ex parte? — Peritheciis plano-scutatis, elliptico-circularibus, 300 μ . diam., astomis, contextu minute sinuoso-parenchymatico fuligineo; sporulis ovato-oblongis, 10 \approx 6-7, nubiosis, quandoque plasmate obsolete 2-partito, hyalinis, basidiis teretibus brevioribus suffultis.

Hab. in caulibus *Achilleæ Ptarmicæ* cultæ in Gallia. — *Schizothyrii Ptarmicæ* facile spermogonium.

51. **Leptothyrium punctulatum** Sacc. Mich. II. p. 113. — Peritheciis 3380
superficialibus, gregariis, plano-scutatis, elliptico-circularibus, subastomis, 150 \approx 100-120, obsolete radiato-contextis, fuligineis, margine saturatoribus; sporulis falcato-allantoideis, 6 \approx 1,5, utrinque acutis, hyalinis in strato prolifero hyalino-celluloso subsessilibus.

Hab. in caulibus *Scrophulariæ nodosæ* et *Dentariæ pinnatæ* prope Lyon Galliæ (THERRY).

52. **Leptothyrium protuberans** Sacc. Mich. II. pag. 351, 380 et 574. 3381
An *Phoma protuberans* Lév. saltem ex parte? — Pseudoperitheciis clypeato-convexis, majusculis, 1 mill. diam., atro-nitidis ab epidermide fungificata formatis; sporulis fusoides, curvis, 7-9 \approx 1½-2, hyalinis; basidiis filiformibus simplicibus vel furcatis, 20-25 \approx 1.

Hab. in caulibus *Potentillæ*, *Helianthemis* etc. in Gallia, Italia et America boreali. — Species *Lept. macrothecio* Fuck. peraffinis.

III. In plantis monocotyledoneis et acotyledoneis.

53. **Leptothyrium Calami** Karst. Hedw. 1883, p. 180. — Peritheciis 3382
sparsis, elongato- vel oblongato- difformibus, planiusculis, nigris,

nitidulis, 0,2-0,4 mill. longis; sporulis elongatis vel fusoidis, hyalinis, rectiusculis, $3 \approx 0,5$.

Hab. in foliis putrescentibus Acori Calami prope Aboam in Fennia.

54. **Leptothyrium subtectum** Sacc. Mich. II. p. 529. — Peritheciis 3383
laxe gregariis, epidermide subvelatis, atris, nitidis, applanatis, $\frac{1}{4}$
mill. diam., subastomis, cellulis perithecii parenchymaticis fuligi-
neis, in peritheciis basi dimidio minoribus; sporulis subfusoidis,
curvulis, 18-20 \approx 2,5-3, 3-4-guttulatis, hyalinis, basidiis brevibus
obtusis, sporulâ triplo brevioribus suffultis.

Hab. in foliis Luzulæ in silva Montello Italiæ bor. — A
Lept. caricino Fr. differt peritheciis non secedentibus, a *Lept. Lu-
zulæ* sporulis non globosis etc.

55. **Leptothyrium Holoschœni** (Dur. et Mont.) Sacc. *Leptostroma Ho-* 3384
loschœni Dur. et Mont. Fl. Alg. p. 615. Syll. Crypt. n. 661. — Mi-
nutissimum, punctiforme, orbiculatum, atrum, nitidum, *Micro-
thyrium* quoddam referens, tandem secedens; sporulis oblongis si-
mulate uniseptatis.

Hab. ad culmos Holoschœni, Alger (DURIËU).

56. **Leptothyrium litigiosum** (Desm.) Sacc. Mich. II. pag. 113. *Lepto-* 3385
stroma litigiosum Ann. Sc. nat. 1843, p. 338. — Peritheciis cir-
cularibus, planis, 90-100 μ . diam., gregariis v. sparsis, atris, sub
vitro olivaceo-fuligineis, facile secedentibus, eximie radiatim tex-
tis; sporulis botuliformibus, 4-5 \approx 0,7-1, hyalinis.

Hab. in stipitibus Pteridis aquilinæ in Gallia, Italia, Bri-
tannia, Lusitania, Fennia. — Verisimiliter spermogonium *Micro-
thyrii litigiosi*.

57. **Leptothyrium fragilissimum** (Mont.) Sacc. *Leptostroma fragilis-* 3386
simum Mont. Cent. VI. n. 12. Syll. Crypt. n. 660. — Hypophyl-
lum, difforme, convexo-planum, atrum, opacum, ruguloso-reticu-
latum; peritheciis punctiformibus confluentibus tandem in crustam
orbicularem aut irregularem congregatis; sporulis lineari-oblongis.

Hab. in foliis Lindseæ, Tahiti (J. LÉPINE). — Habitus *Dothi-
dæ granulosa* Hook. Teste Streinz Nom. Fung. p. 356 species
hæc ad *Erineum Grewianum* Fée ducenda est, evidentissime ex
errore, Streinzio ceterum tam sollemni!

PIGGOTIA B. et Br. Ann. N. H. n. 503, t. V. f. 3. (Etym. a cl. PIG-
gor, botanophilo anglico). — Perithecia applanata, inæqualia, te-
nui-membranacea, initio cuticulâ tenerrimâ velata sæpe stellatim

digesta. Sporulæ oblongæ v. subcylindraceæ, continuæ, subhyalinæ v. flavidæ, basidiis teretiusculis suffultæ.

1. **Piggotia astroidea** B. et Br., Ann. N. H. n. 503, t. V. f. 3. *Asteroma Ulmi* Grev. F. Ed. p. 368. — Epiphylla; peritheciis vix prominulis, connatis, tuberculos minutos stellatim aggregatos formantibus; contextu perithecii minute parenchymatico, atro-olivaceo; sporulis oblongis basi truncatis, apice rotundatis, 8-10 \approx 5-6, minute 2-4-guttulatis dilute luteolis, basidiis cylindraceis fasciculatis apice truncatis luteolis suffultis.

Hab. in foliis vivis Ulmi campestris subinde flavido-maculatis.

2. **Piggotia atronitens** Oud. Mat. Myc. Neerl. II. p. 21. — Peritheciis spuriis maculiformibus irregularibus, aterrimis, nitidis, ramicolis, inferne deficientibus; sporulis minutissimis oblongis; basidiis filiformibus.

Hab. in ramulis Salicis prope Harlem Hollandiæ. — Affinis *P. astroideæ*, sed sporulis minoribus, peritheciis satis diversis distinguenda.

3. **Piggotia Fraxini** B. et C. North Am. Fungi n. 433^{bis}. — Peritheciis hypophyllis, 2-3 hic illic in cæspites punctiformes rugulosos congestis; sporulis oblongis minutis, 5-7 μ . longis.

Hab. in foliis Fraxini in Pennsylvania (MICHENER).

MELASMIA Lév. Ann. Sc. nat. 1846, p. 276, Sacc. Mich. II. pag. 9. (Ety. a *melasma* nigredo). — Perithecia dimidiata, plana subastoma v. rimosa, membranacea, atra, stromate effuso, nigricante, sæpius phyllogeno innata. Sporulæ botuliformes, continuæ, subhyalinæ, basidiis sæpe bacillaribus suffultæ. Habitus et spermogonia *Rhytismatum*.

1. **Melasmia acerina** Lév. Ann. Sc. nat. 1846, p. 276 et 1848 p. 252. — Peritheciis epiphyllis adnatis gregariis v. confluentibus, maculas nigras suborbiculares pustulosas zona flavicante cinctas efficientibus, initio hemisphæricis dein complanatis, membranaceis, rugulosis, rufo-fuscis; sporulis botuliformibus, curvulis, 6-9 \approx 1, hyalinis, utrinque obtusiusculis.

Hab. in foliis subvivi Aceris campestris, A. Pseudoplatani, A. platanoidis in Gallia, Germania, Italia, Britannia, Austria, Amer. bor. — Adest forma in foliis Myrsines prorsus similis in Texas Amer. bor.

2. **Melasmia punctata** Sacc. et Roum. Mich. II. pag. 632. — Maculis 3391
majusculis flavicantibus, obsoletis; peritheciis epiphyllis, deplanatis,
atris, subsuperficialibus, minutissime areolato-contextis, astomis,
demum subinde confluentibus; sporulis breve allantoideis 4-5 \approx 1,
hyalinis, in basidiis teretibus, longiusculis, simplicibus ramulosis-
que acro-pleurogenis.

Hab. in foliis Aceris Pseudoplatani et Ac. campestris
in Arduennis, Austria et Ital. bor. — *Mel. punctata* Thüm. Symb.
Austr. II. p. 194 eadem videtur, sed descriptio sporularum non
convenit.

3. **Melasmia ulmicola** B. et C. North Amer. Fungi n. 433. — Puncti- 3392
formis, prominula basi epidermide cincta e maculis rufis inde-
finitis oriunda; sporulis minutis oblongo-botuliformibus.

Hab. in foliis Ulmi americanæ, Massachusetts Amer. bor.
— Inter *Melasmiam* et *Piggotiam* forma fere media.

4. **Melasmia Caraganæ** Thüm. Pilzfl. Sibir. n. 120. — Crustas am- 3393
phigenas, plus minusve cohærentes, atras, gibbosas, magnas in ma-
cula indeterminata, flavescenti formans; peritheciis congregatis
vel confluentibus, rimosis, atris; sporulis subfiliformibus, apice acu-
tatis, basi angustato-pedicellatis, paucicurvatis, 20 \approx 3, hyalinis.

Hab. in foliis ramulisque vivis Caraganæ arborescentis
pr. Minussinsk in Sibiria asiatica.

5. **Melasmia arbuticola** Vize in Grevillea. — Gregaria, atrobrunnea, 3394
orbicularis, rugosa, e maculis rufo-brunneis oriunda; sporulis mi-
nutis, hyalinis, rectis, spermatioideis, 3,5 μ . longis.

Hab. in foliis Arbuti in California (HARKNESS).

6. **Melasmia Berberidis** Thüm. et Wint. F. austr. n. 201. — Peri- 3395
theciis dense gregariis, parvis, in macula brunnea pagine supe-
rioris foliorum, interdum etiam in pagina inferiore, concavis, atris,
nitidis; sporulis longe stipitatis, breviter cylindræis, curvatis.

Hab. ad folia viva Berberidis vulgaris pr. Krems Au-
striæ (de THÜMEN).

7. **Melasmia Aviculariæ** West. 5 Not. n. 70, *Phyllosticta melano-* 3396
placa West. Exs. n. 1141. — Peritheciis punctiformibus, exiguis,
atris, numerosis, crebris indeque maculas nigricantes effusas for-
mantibus; ostiolo poriformi; sporulis ovoideis, hyalinis, 3-3,5 \approx 1,5.

Hab. in foliis Polygoni avicularis pr. Nieuport Belgii.

ACTINOTHECIUM Ces. Hedw. I. t. XI. f. 3 (Etym. *actin* radius, et
theca pro perithecio). — Perithecia initio suborbicularia v. angu-

losa, scutata, radiatim dehiscentia, sæpe in radios 5-7 oblongos v. lanceolatos e centro stellatim divergentes divisa; radiis longitudinaliter anguste rimosis; contextu parenchymatico, radiato. Sporulæ ovato-oblongæ continuæ, hyalinæ. — Habitus fere *Aulographi*; nisi perithecia divisa, vix a *Leptothyrio* distinguitur.

1. **Actinothecium caricolum** Ces. l. c. in Kl. Herb. myc. n. 1976. 3397
— Characteres generis.

Hab. in utraque pagina foliorum et in vaginis Caricis montanæ etc. in collibus Brescia Ital. bor. — Perithecia levia, nigra, gregaria v. confluentia.

2. **Actinothecium? Scortechinii** Sacc. et Berl. — Peritheciis linearibus, rectis v. curvulis, subsuperficialibus, furcatis v. varie ramosis, utrinque rotundatis, plano-convexulis, longitudinaliter obtuse sulcatis (ibi tamen non dehiscentibus), poris inæqualibus hinc inde apertis, contextu minute et distincte parenchymatico, cellulis subcuboideis bifariam directis; sporulis non visis.

Hab. in pag. sup. Smilacis pr. Logan Queenslandiæ australis (SCORTECHINI). — Etsi fructificatio ignota, huc pertinere videtur. — Cl. et Rev. B. SCORTECHINI italo in remota Australia et Malesia strenuo Botanices scrutatori dicata species.

LEPTOSTROMA Fr. Obs. II. p. 361. p. p. Sacc. Mich. II. p. 114, n. 955. (Etym. *leptos* tenuis, et *stroma*). — Perithecia dimidiata, subsuperficialia v. cuticulâ tenuissimâ initio velata, applanata, elongata, atra, sæpius nitidula, rimâ v. carinâ longitudinali plus minusve manifestâ hysteriiformi vittata. Sporulæ ovoideæ, oblongæ v. allantoideæ, continuæ, subhyalinæ. — Speciebus perithecio subcirculari, carinâ v. rimâ long. carente instructis ad gen. *Leptothyrium* ductis, gen. *Leptostroma* Fr. ad species limito, quæ peritheciis elongatis et longitudinaliter subrimosis utuntur. — Multæ tamen species dubiæ, quia ignota fructificatio.

I. In dicotyledoneis lignosis.

A) Species ramicolæ.

1. **Leptostroma virgultorum** Sacc. Mich. II. p. 350. — Peritheciis subsuperficialibus, plano-clypeatis, oblongis, atronitentibus, rimula spuria exaratis; sporulis tereti-oblongis, 4-5 \approx 1, hyalinis, basidiis filiformibus fasciculatis, 20-25 \approx 1, suffultis.

Hab. In sarmentis emortuis Rubi fruticosi pr. Rouen Galliæ (LETENDRE). — Certe spermogonium *Hypodermatis virgullo-*

rum f. *Rubi*, totoque cælo diversum a *Lept. vulgari* (Cfr. Tul. Carp. et Fuck. Symb. 258). — β . **rubinum** Karst. Symb. myc. Fenn. XII. pag. 13: peritheciis sparsis vel subgregariis sublanceolatis; sporulis elongato-fusoideis, sæpe curvulis 5-7 = 1, basidiis 21-25 = 1 suffultis. In sarmentis Rubi arctici in Fennia.

2. **Leptostroma Rubi** (Lib.) Speg. et Roum. Reliq. Lib. I. n. 611. *Pe-* 3400
risporium Rubi Lib. Exs. — Superficiale, innatum, gregarium, humiditate globosum, siccitate cupulato-collapsum, nitidum, atrum, poro pertusum; contextu tenui, parenchymatico-membranaceo, atro; sporulis e strato proligerò pachydermatico oriundis, cylindræis, pluriguttulatis, utrinque rotundatis 8-10 = 2.

Hab. ad ramos exsiccatos Rubi in Arduennis et in Alpibus venetis. — Non vidi sed e diagnosi potius *Phoma* videtur.

3. **Leptostroma scriptum** Fr. Obs. II. p. 357. — Erumpens, elonga- 3401
to-lineare, flexuosum vel subrotundum, demum disco concaviusculo apertum.

Hab. in epidermide ramorum emortuorum Aceris Negundinis in Germania et Scandinavia. — Habitu *Arthoniæ* et vegetatione epixyla a reliquis diversum. Forma nulla constans.

4. **Leptostroma acerinum** Schw. Syn. Am. bor. n. 2193. — Subro- 3402
tundum, gregarium, immerso-innatum, ex olivaceo nigrum, margine atriori, applanatum, rimosum.

Hab. in junioribus ramis Aceris pensylvanici, Mauch Chunk Amer. bor. — Affine *L. fructigeno* et *L. Donacis*.

5. **Leptostroma rhoinum** Schw. Syn. Amer. bor. n. 2188. — Puncta 3403
minima, undique sparsa, atra, non nitentia per lentem ovata, subrotunda offert; primum tectum, demum denudatum, centro collapsulo, costa rimæformi subelevata centrali; majora elliptico-acuminata perithecia minoribus mixta.

Hab. in petiolis Rhois glabræ, Bethlehem Amer. bor.

6. **Leptostroma Caprææ** Lib. in Herb. et Cooke Grev. *Lept. herba-* 3404
rum f. *Salicis* Link Handb. III. p. 345 (teste Speg. et Roum. in Rev. Myc.). — Sparsum, rotundum vel ovatum, nigrum, nitidum; pulpa sporulosa alba; sporulis ovoideis.

Hab. in ramulis siccis Salicis caprææ in Arduennis.

7. **Leptostroma confluens** Cooke Grev. XII. p. 22. — Peritheciis or- 3405
bicularibus, applanatis, atris, demum confluentibus, in plagas irregulares aggregatis; sporulis ellipticis, hyalinis, 4 = 2.

Hab. in cortice Pini in Carolina inf. (RAVENEL).

8. **Leptostroma piceum** Schw. Syn. Am. bor. n. 2193. — Crusta qua- 3406

si nigro-picea, tenuiores caules undique circumdans, subcontinua, subindeterminata ambitu; huic insident perithecia ovata, oblonga et difformiter lobata, margine subelevato, superficie concaviuscula et rariter in crusta sparsa; rarius observantur perithecia conformia extra fines crustæ.

Hab. in dejectis stipitibus ignotis, Bethlehem Amer. bor. — Rarum sed distinctissimum.

B) Species foliicolæ et fructicolæ.

9. **Leptostroma Pinorum** Sacc. Mich. II. p. 632. — Peritheciis sub- 3407
seriatis, elongatis, atro-nitidulis minutis, convexiusculis, hysteroi-
deis; sporulis cylindricis utrinque obtusiusculis, 8-10 \approx 0,5, rectis,
hyalinis; basidiis brevissimis fasciculatis.

Hab. in acubus Pinorum, Brionne Galliæ (MALBRANCHE). —
An spermogonium *Aulographi Pinorum* Desm.?

10. **Leptostroma Pinastri** Desm. Ann. Sc. nat. 1843, p. 338. — Pe. 3408
ritheciis anguste linearibus, parallelis, 1 \approx $\frac{1}{8}$ mill. diam., atris, epi-
dermide initio tectis; sporulis cylindraceis, minutis, 6-8 \approx $\frac{1}{2}$ -1,
hyalinis, basidiis subæquilongis fasciculatis suffultis.

Hab. in foliis Pini silvestris, P. maritimæ etc. in Gal-
lia, Germania. — Homonyma species (in Grevillea) ex New Jer-
sey sporulis ovoideis 3-4 μ . longis omnino differt. *Leptostroma*
Pinastri in Sacc. Myc. Veneta n. 989 est, ut monui, *Phoma aci-*
cola (Lév.).

11. **Leptostroma durissimum** Cooke in Grevillea. — Gregarium; pe. 3409
ritheciis atris, scutatis, irregularibus vel confluentibus, durissi-
mis; sporulis linearibus, obtusis, 8 μ . longis.

Hab. in foliis Pinorum, Aiken in Carolina australi.

12. **Leptostroma laricinum** Fuck. Symb. p. 256. — Peritheciis gre. 3410
gariis, minutissimis, orbicularibus, convexis, demum applanatis, pli-
catis, aterrimis, nitidis, in macula pallida; conidiis ovoideis mi-
nutissimis.

Hab. in foliis dejectis Laricis europææ in Rhenogovia. —
Spermogonium *Lophodermii laricini* Fuck.

13. **Leptostroma discosioides** Winter Cont. Myc. Lus. n. 784. — Pe. 3411
ritheciis clypeatis, plerumque orbicularibus, interdum confluentibus,
nitide atris, circa 120-200 μ . lat., in macula pallide lutea, indeter-
minata et irregulari, plerumque secus nervos primarios expansa
gregariis, hypophyllis; sporulis minutissimis, bacillaribus, hyalinis,
continuis, 3,5 \approx 08.

Hab. in foliis aridis Lagerstrœmiæ indicæ, Coimbra Lusitaniæ in horto botanico.

14. **Leptostroma costatum** Rabenh. Deutsch. Cr. Fl. n. 1283. — Peritheciis suborbicularibus, $\frac{1}{2}$ mill. diam., superne acutiusculis, longitrorsum regulariter, 7-10-sulcatis, brunneo-atris, intus pallidioribus. 3412

Hab. in foliis emortuis Quercus pubescentis in Lombardia Ital. bor. (1841, RABENHORST).

15. **Leptostroma punctiforme** Wallr. Fl. crypt. n. 1395. — Peritheciis exiguis, punctiformibus, nigris, opacis, innatis, sparsis, arcte adhærentibus cum cubilibus adæquato. 3413

Hab. ad pag. infer. foliorum vegetorum Salicis caprææ, Euphorbiæ Cyparissia, Rosæ, Buxi, Cratægi, Saussureæ in Germania et Sibiria.

16. **Leptostroma areolatum** (Fr.) Wallr. Fl. cr. n. 1399 *Sclerotium areolatum* Fr. S. M. II. p. 263 et Obs. II. p. 553, t. 7, f. 5. — Pseudostromate planiusculo opaco, nigro-fusco, foliorum parenchyma obreptando infarciendo, demum bullato. 3414

Hab. ad folia languida Pruni Padi et virginianæ in Suecia et Germania.

17. **Leptostroma Camellia** Zenker, Flora 1834, I. p. 211, t. III. fig. 1-7. — Subhemisphæricum, demum depressum, leve, subnitidum, rufescens, centro umbonatum, umbone albido-lutescente. 3415

Hab. in pag. inf. foliorum Camellia japonicæ, Jena Germaniæ. — « An vere fungus? »

18. **Leptostroma fructigenum** Schw. Syn. Am. bor. n. 2187. — Superficie glabra, punctiforme; peritheciis plerumque concentricè aggregatis, centro depresso, superficie subrugulosa ceterum nigris. 3416

Hab. in ipsa glaberrima epidermide Pomorum, maturorum, præsertim vulgo dictorum Vandeeveo, Bethlehem Amer. bor.

II. In monocotyledoneis et acotyledoneis.

19. **Leptostroma donacinum** Sacc. Mich. II. p. 350 (*Lept. Donacis*). 3417 — Peritheciis lineolatim et parallele dispositis, innato-erumpentibus, anguste oblongis, $\frac{1}{4}$ - $\frac{1}{2}$ mill. long. $\frac{1}{10}$ cr., nigris; rimula perexigua; sporulis tereti-oblongis, teretiusculis, 4 = 1, hyalinis.

Hab. in culmis emortuis Arundinis Donacis in Gallia australi.

20. **Leptostroma Donacis** Schw. Syn. Am. bor. n. 2186. — Orbicu- 3418

latum, 1-2 lin. diam., scutiforme ambitu quasi lobatum, olivaceo-nigrum, applanato-elevatum, centro subumbonatum.

Hab. in culmis viridibus et subviridibus *Arundinis Donacis*, Salem Amer. bor. — An potius *Actinothyrium?*

21. **Leptostroma Phragmitis** Fr. in Kl. Herb. Myc. n. 786. — Peri- 3419
theciis lanceolatis, majusculis, atris 1-1½ mill. long., ⅓ cr., distincte rimosis; sporulis fusoides, majusculis, 15-20 = 3½-4, 4-guttulatis, curvulis, hyalinis.

Hab. in culmo *Phragmitis* in Suecia et prope Kappel Germaniæ (P. MAGNUS). — Diagnosim erui ex speciminibus Magnesianis, nam originalia mihi desunt; hinc dubium, an identicæ species sint.

22. **Leptostroma? Poæ** Lib. in Herb. et Cooke in Grevillea. — Sim- 3420
plex, rotundum, leve, planissimum, nigrum, substantia ceracea, fusca, totum secedens; sporulis globosis, hyalinis, stipitatis.

Hab. in *Poa sudetica* in Arduennis. — « An *Leptothyrium?* An spermogonium *Scirrhæ Poæ?* »

23. **Leptostroma cereale** Schw. Syn. Am. bor. n. 2191. — Primum 3421
sub epidermide tectum, qua dejecta, nudum et innatum evadit, nigro-nitens, ellipticum, subelevatum utrinque acuminatum, centro late depresso; massa quadam alba implet interioriorem partem.

Hab. frequens in culmis adhuc stantibus post messem, Bethlehem Amer. bor. — An *Sclerotium?* — Circum perithecia epidermidis tingitur nigro-fusca, efficiens maculas trilineares.

24. **Leptostroma marginatum** Schw. Syn. Am. bor. n. 2192. — Su- 3422
perficiale, oblongo-ovatum, sed longitudinaliter miro modo quasi effiguratum, confluens; interdum maculam efficiens semiuncialem, utrinque rotundatam, atram sed non nitentem; margine manifeste elevato cinctum est perithecium, superficie applanata minute tuberculosa; subdetergibile et ideo non innatum.

Hab. in culmis crassioribus *Graminum* rarius, Bethlehem in America boreali.

25. **Leptostroma Zizaniæ** Schw. Syn. Am. bor. n. 2194. — Magnum, 3423
piceum, nitens, bullatim effusum.

Hab. in defossis radicibus *Zizaniæ* prope Philadelphiam Americæ borealis.

26. **Leptostroma micropunctum** Cooke, Grev. XII. p. 22. — Grega- 3424
rium; peritheciis minutissimis, applanatis, atris, maculas suborbiculares efformantibus; sporulis linearibus, hyalinis, utrinque obtusis, 6 = 1,5.

Hab. in Sabal in Carolina inf. (RAVENEL).

27. **Leptostroma Smilacis** Cooke in Rav. Fung. Amer. n. 20 et in 3425
Hedwigia 1878, p. 37. — Peritheciis scutellæformibus, orbicularibus, opacis, subrugosis; sporulis ovatis, minutis, hyalinis, $4 \approx 2,5$.

Hab. in caulibus Smilacis laurifoliæ, Aiken in Carol. inf.

28. **Leptostroma Polygonatum** Lasch in Kl. Herb. Myc. n. 382 et 3426
Rabenh. D. C. Fl. Fungi p. 142. — Peritheciis copiosis, hemisphæricis, gregariis, demum collabascentibus et subinde confluentibus, nigris, nitidis.

Hab. in caulibus siccis Convallariæ Polygonati et C. multifloræ in Germania et Italia.

29. **Leptostroma scirpinum** Fr. Obs. II. p. 357, Syst. myc. II. p. 598 3427
Lept. xylomoides Fr. Obs. II. p. 197, t. I. f. 6. — Orbiculare, opacum, centro umbonatum, demum totum secedens, disco albido.

Hab. in calamis foliisque Scirpilacustris, S. triquetri, S. Tabernæmontani, S. silvatici, S. maritimi in Suecia, Germania, Lusitania, Italia, Sibiria. — Duplex occurrit varietas: altera major, sparsa, absque macula; altera minor, maculæ pallidæ nigrolimitatæ innata.

30. **Leptostroma nitidum** Wallr. Fl. cr. n. 1401, *Lept. Iridis* 3. *Typha* 3428
Duby Bot. Gall. II. pag. 726. — Peritheciis oblongis sparsis demum confluentibus, aterrimis, nitidis, longitudinaliter striatis.

Hab. ad folia viva *Typhæ* angustifoliæ in Thuringia et Rhenogovia.

31. **Leptostroma Juncacearum** Sacc. Mich. II. p. 352. — Peritheciis 3429
plano-clypeatis, ovatis, atro-nitidulis $\frac{1}{2}$ mill. long. rimulâ obsoletâ notatis; contextu parenchymatico non radiato; sporulis copiosis, tereti-fusoideis, $4-5 \approx \frac{1}{2}$, obsolete 2-guttulatis, hyalinis, basidiis bacillaribus dense fasciculatis, $10 \approx 1-1\frac{1}{2}$, hyalinis suffultis.

Hab. in calamis emortuis Junci conglomerati v. affinis, Quevilly, Rouen; et in foliis Luzulæ silvaticæ, Francheville et in Arduennis nec non in Fennia. — An hue spectet *L. Luzulæ* Lib., deficientibus exemplaribus dijudicare nequeo; certe quod describitur in Lamb. Myc. Belg. III. 105, alienum est. *L. juncinum* Fr., Sacc. Mich. II. 282 quoque prorsus differt. Quod sub hoc postremo nomine accepi a nonnullis mycologis, potius *Phyllachoræ Junci* (Fr.) initia sistit.

32. **Leptostroma Luzulæ** Lib. Exs. n. 75, sec. Lamb. Myc. Belg. III. 3430
p. 105. — Peritheciis subcircularibus, leniter umbonatis, atro-nitidis, sparsis, maculâ brunneâ cinctis; sporulis globulosis.

Hab. in foliis subviviis Luzulæ maximæ et pilosæ in Arduennis, in Rhenogovia pr. Nassogne Belgii et in Sibiria.

33. **Leptostroma caricinum** Fr. Obs. II. p. 361. t. VII. f. 4. Syst. Myc. 3431
II. p. 598. — Subrotundum, inæquale, tenue, opacum, totum secedens, macula fusca.

Hab. in foliis Caricum, Eriophori angustifolii etc. in Suecia, Britannia et America boreali. — Maculæ rotundæ v. oblongæ, planæ, atræ, absque umbone, lineam haud longæ, demum ex nervis matricis rugosæ. Cave, ne pro *Arthrino* juniore habeas.

34. **Leptostroma inundatorum** Schw. Syn. Am. bor. n. 2195. — Effiguratim effusum, atrum, confluentum, innatum, applanatum, conflatum ex multis parvis peritheciis. 3432

Hab. in culmo caricino magno, Philadelphia in Delaware Americæ borealis.

35. **Leptostroma Pteridis** Ehrenb. Sylv. Berol. p. 27, Kickx Fl. cr. 3433
Fl. I. p. 408. — Peritheciis oblongis, nigris, nitidis, innatis, tectis, dein prominulis, confluentibus plagulas plus minusve longitudinaliter elongatas, irregulares formantibus, superficie granulosis.

Hab. in stipitibus siccis Pteridis aquilinæ in Belgio et Germania.

36. **Leptostroma filicinum** Fr. Syst. Myc. II. p. 599. *Schizoderma filicinum* Ehrenb. Sylv. p. 15, *Hypoderma striciforme* DC. — Elongatum, difforme, leve, nigrum, adultum costâ elevatâ insignitum demumque totum secedens. 3434

Hab. in stipitibus Pteridis, Osmundæ, Aspidii in Suecia, Germania, Italia, Britannia, Gallia et Amer. bor. — «Contextus perithecii plano-lanceolati, minute parenchymaticus, fuliginosus, nucleo celluloso, subolivaceo, cellulis obtusis, 4-5 = 4. Suspicio nil esse nisi statum juvenilem *Rhopographi filicini* (Sow.) Nits.»

37. **Leptostroma Aspidiorum** Schw. Syn. Am. bor. n. 2190. — Minutum, subrotundum, confluentum, fusco-nigrum nitens, parum elevatum impressum, rarissime tractu lineari, sed plerumque effiguratim confluentum, interdum simplex et punctiforme. 3435

Hab. non rarum in stipitibus variorum Aspidiorum, Bethlehem Amer. bor.

III. In dicotyledoneis herbaceis.

38. **Leptostroma herbarum** (Fr.) Link. Handb. III. pag. 345. Sacc. 3436
Mich. II. p. 352. *Sclerotium herbarum* Fr. S. M. II. p. 599. — Peritheciis gregariis interdum confluentibus plano-convexiusculis,

epidermide tenui initio velatis, lanceolatis, rimâ obsoletâ notatis, fusco-nigris, nitidulis; sporulis botuliformibus vel fusoido-curvatis, 4-6 \approx 1-1,5, hyalinis.

Hab. in caulibus Euphorbiæ, Potentillæ, Lini, Cerastii, Teucris, Delphinii, Cimicifugæ, et ramulis Salicis capreæ in Suecia, Germania, Gallia, Sibiria.

39. **Leptostroma hypodermoides** Sacc. Mich. II. p. 114. — Peritheciis gregariis, planiusculis, epidermide initio subvelatis, nigris, lanceolatis, 1 mill. long. $\frac{1}{2}$ cr. rimâ vix notatis, contextu parenchymatico fuligineo; sporulis cylindræis, 5 \approx 1, 2-guttulatis, hyalinis, basidiis filiformibus, 21 \approx 1, rectis suffultis. 3437

Hab. in caulibus Lamiorum, Conegliano Italiæ borealis, et Scrophulariæ aquaticæ pr. Rouen Galliæ. — Affine *Leptostromati herbarum* Link. (Schröt. F. Bad. n. 198), quod sporulis fusoido-curvatis, 5-6 \approx 1 $\frac{1}{2}$, præcipue differt.

40. **Leptostroma lineare** Lév. Ann. Sc. nat. 1848, p. 249. — Peritheciis innatis linearibus parallelis nigris hinc inde umbonatis secedentibus, basi stromatica alba; sporulis ellipticis continuis pelucidis. 3438

Hab. ad caules Tanaceti vulgaris prope Parisios Galliæ.

41. **Leptostroma lineatum** Sacc. *Leptostroma lineare* Peck Rep. on the St. Mus. N. Y. nec Lév. — Peritheciis planis, tenuibus, subangulosis, initio epidermide tectis, striatis, rimâ v. carinâ medio notatis, plerumque seriatim dispositis, nigris; sporulis minutis, oblongis, curvulis, hyalinis, 7-10 μ . longis. 3439

Hab. in caulibus emortuis Actææ spicatæ, Helderberg Mts. Americæ borealis.

42. **Leptostroma Spirææ** Fr. Syst. Myc. II. p. 599. *Xyloma Spirææ* Kunze Myk. Heft. I. p. 75. — Conglomerato-connatum, difforme, rugosum, nitidum, intus griseum, demum totum secedens; peritheciis minutis subhysterioideis (non radiato-contextis); sporulis falcatis, 6 \approx $\frac{3}{4}$ -1, hyalinis, utraque acutis. 3440

Hab. in caulibus emortuis Spirææ Ulmaricæ et S. Arunci etc. in Suecia, Britannia, Germania, Kamtschatka, Carolina. — Perithecia secedendo maculas fusco-nigras relinquunt. — Adest, teste Frieso, var. in Rubo cæsius.

43. **Leptostroma sphæroides** Fr. Syst. myc. II. p. 600. — Orbiculatum, tenue, convexum, leve, secedens, atrum. 3441

Hab. in caulibus herbarum e. g. Angelicæ in Suecia et Germania. — Punctiforme, regulare, vix nisi fructificans a *Sphæ-*

- riis* cauliculis distinguendum, in ambitu passim dilatato-tenuissimum. — β . nitens (Schw.) Fr. l. c. *Xyloma nitens* Schw. Carol. n. 262: peritheciis semiglobosis. In Carolina.
44. **Leptostroma Hyperici** Schw. Syn. Am. bor. n. 2189. — Minutum, 3442
primum tenerrima epidermide tectum; erumpens demum ac denudatum, rotundum aut elliptico acuminatum, e fusco-nigrum, absque nitore, valde elevatum, subsclerotioideum, interdum lineare et ramosim confluens.
Hab. frequens in caulibus *Hyperici perforati*, Bethlehem Americæ borealis.
45. **Leptostroma Glechomæ** B. et Br. Ann. N. H. n. 1449. — Ma- 3443
culis helvolis; peritheciis irregularibus, minutis, epiphyllis; sporulis minutis oblongis.
Hab. in foliis *Glechomæ hederaceæ* in Scotia. — «An *Leptothyrium?*».

IV. *Species vix notæ.*

46. **Leptostroma acerinum** Opiz Sezn. p. 130. — In agro Pragensi. 3444
47. **Leptostroma Alceæ** Kirchn. Lotos 1856, p. 204. — In Bohemia 3445
meridionali.
48. **Leptostroma Cichorii** Kirchn. Lotos 1856, p. 204. — In Bohe- 3446
mia meridionali.
49. **Leptostroma Impatientis** Kirchn. Lotos 1856, p. 204. — In Bo- 3447
hemia meridionali.
50. **Leptostroma Rusci** Kirchn. Lotos 1856, p. 204. — In Bohemia 3448
meridionali.
51. **Leptostroma Stellaris** Kirchn. Lotos 1856, p. 204. — In Bohe- 3449
mia meridionali.
52. **Leptostroma Ionicericolum** Rabenh. Bot. Zeit. 1846, p. 46 (no- 3450
men) Kl. Herb. myc. n. 865 (FIEDLER).
53. **Leptostroma stipatum** Fr. Summ. Veg. p. 371, Scler. Suec. n. 3451
192. — Lundæ.
54. **Leptostroma Potentillæ** Karst. Fung. Spetsb. n. 59. — In foliis 3452
putrescentibus *Potentillæ emarginatæ* in Spetsberg.

LABRELLA Fries Syst. Orb. Veg. I. p. 364 et Elench. II. pag. 149
(Etym. ob perithecium *labris* dehiscens). — Perithecia innata, sæpe spuria, atra, rotundata, v. inæqualia, rima dehiscentia. Sporulæ oblongæ v. fusoideæ v. globulosæ, continuæ, hyalinæ. — Pe-

rithecia subinde e matrice mutata et atrata formata videntur. Species nonnullæ ad *Subcupulatas* seu *Excipulaceas* vergunt.

1. **Labrella Coryli** (Desm. et Rob.) Sacc. *Cheilaria Coryli* Desm. et 3453
Rob. Ann. Sc. nat. 1853, p. 226. — Maculis amphigenis irregularibus rufescentibus; peritheciis hypophyllis, raro epiphyllis, innatis, membranaceis, subgregariis perexiguis, rotundatis, pallide brunneis, rima longitudinali dehiscentibus, intus albidis; sporulis oblongis, subinde truncatis, clavulatis vel panduratis, hyalinis, 12-15 \approx 5.

Hab. in foliis Coryli Avellanæ in Gallia et Britannia. — Verisimiliter huc spectat *Glæosporium Coryli* Sacc. in quo tamen perithecium non videre licuit. Forte ad hoc genus quoque spectat *Cheilaria Arbuti*, quam sub *Phyllosticta* descripsi. Cfr. n. 118. *Labrella Fagi* Desm., deficiente prorsus perithecio, ad *Glæosporium Fagi* relata est.

2. **Labrella cedrina** Dur. et Mont. Fl. Alg., I. p. 599, t. 27, f. 7. 3454
Mont. Syll. Cr. n. 990. — Peritheciis dimidiatis oblongis confluenti-linearibus elongatis, rima longitudinali dehiscentibus; sporulis oblongis pedicellatis 5 \approx 1,5-2.

Hab. in foliis dejectis Cedri in summo monte Atlante Algeriæ (DURIEU).

3. **Labrella Potentillæ** Fuck. Symb. p. 380. — Peritheciis sparsis, 3455
semiimmersis, basi applanatis, vertice conicis, duplo majoribus, quam *Sphærellæ punctiformis*, rima longitudinali dehiscentibus, atris; sporulis in globulum diaphanum, fuscescentem expulsis, cylindræis, utrinque obtusis, simplicibus, hyalinis, 8 \approx 2.

Hab. in pag. sup. foliorum languidorum Potentillæ argenteæ pr. Æstrich Rhenogoviæ.

4. **Labrella Sibbaldiæ** Thüm. Pilzfl. Sibir. n. 604. — Peritheciis cau- 3456
lincolis raro etiam foliicolis, punctiformibus, gregariis, emersis, atris, basi applanatis, vertice conoideis; sporulis ovoideis vel globoso-ellipticis, simplicibus, utrinque obtusiusculis, achrois, 8 \approx 5, in globulum fuscum, 20 μ . diam., expulsis.

Hab. in caulibus subviviis et emortuis Sibbaldiæ erectæ in campis siccis arenosis pr. Minussinsk Sibiriae asiaticæ. — A *Labrella Potentillæ* Fuck. Symb. mycol. p. 380 differt magnitudine et forma sporularum.

5. **Labrella Heraclei** (Lib.) Sacc. *Cheilaria Heraclei* Lib. Cr. Ard. 3457
Exs. n. 254. — Maculis obsolete; peritheciis aggregatis, hemi-

sphærico-subconicis, atro-nitidulis, rima dehiscentibus, nucleo pallido; sporulis fusoideis, curvulis, pellucidis.

Hab. in caulibus *Heraclæi Sphondylii* et *H. flavescen-*
tis in Gallia, Germania et Sibiria asiatica.

6. **Labrella Capsici** Fr. Elench. II. p. 149. — Maculis fuscis; peri- 3458
theciis aggregatis inæqualibus; sporulis rotundatis.

Hab. in capsulis siccis *Capsici* in America bor. (SCHWEINITZ).
— Maculæ oriuntur e stromate tenerrimo, epidermidi suffuso, trans-
lucente, peritheciis aggregatis in modum *Dichæncæ rugosæ*, ce-
terum irregularibus, ab epidermide rupta quasi formatis.

7. **Labrella Rosacearum** Corda Ic. fung. III. p. 30, fig. 80. — Pe- 3459
ritheciis erumpentibus ovatis, subdepressis, atris, nitidis, late ri-
mosis; disco luteolo; sporulis erectis, subclavatis, pellucidis, intus
granulosis; basidiis brevissimis caducis, crassiusculis.

Hab. in ramulis emortuis *Rosarum* pr. Prag Bohemiæ.

8. **Labrella Punctum** Corda Aul. t. I. f. 60, 1-3 et Ic. fung. II. p. 3460
25, f. 93. — Peritheciis minutissimis, punctiformibus, initio orbi-
cularibus, dein ellipticis, disciformibus, fuscis, late rimosis, disco
pallido; sporulis fusoideis, utrinque acutis, curvis vel flexuosis,
subhyalinis, 12 μ . longis.

Hab. in ramulis emortuis lignosis decorticatis prope Reichen-
berg Bohemiæ.

9. **Labrella circumscripta** Pr. F. Hoyersw. n. 53. — Hypodermica, 3461
demum erumpens, elongata dein prominens, atra lineâ circumscripta;
labiis nigrescentibus; basidiis filiformibus; sporulis oblongis, sub-
fusiformibus guttulatis.

Hab. in ligno, Hoyerswerda.

10. **Labrella graminea** Fr. Elench. II. p. 149. — Macula nulla; pe- 3462
ritheciis rotundato-diformibus; sporulis ellipsoideis.

Hab. in foliis gramineis exsiccatis in Gallia (MOUËROT). — Scle-
rotium minus referunt tubercula opaca, atra, demum vero rima
longitudinali fissa. Situs sparsus.

11. **Labrella nitida** Schw. Syn. Amer. bor. n. 2175. — Maculatim 3463
aggregata; peritheciis atronitentibus superficialibus, ovatis, regu-
laribus, e plano-convexis, rima centrali dehiscentibus, nec clausis
et sterilibus ut solent *Leptostromata*.

Hab. rara in caulibus *Polygonati*, Bethlehem Amer. bor.

SACIDIUM Nees in Kunze et Schm. Myc. Hfte II. pag. 64 em. Sacc.
Mich. II. p. 9. (Etym. demin. a *sacos* scutum). — Perithecia dimi-

diata, clypeata, astoma, atra, membranacea, contextu (in speciebus typicis) anhisto, punctulato, nec vere celluloso. Sporulæ globulosæ v. ellipsoideæ, hyalinæ v. pallide coloratæ. — Me auctore, genus hoc a *Leptothyrio* optime dignoscitur ob contextum non cellulosum; sed quoad plurimas species contextus ignotus; hinc incertum, an huc an *Leptothyrium* spectent. *Species typica sunt hinc Sacc. in Pilobolus!!*

I. *Species typicæ.*

Contextus peritheci anhistus v. punctulatus.

1. **Sacidium Spegazzinianum** Sacc. Mich. I. p. 94 F. ital. t. 92. — 3464*P. lobatus*

Peritheciis sparsis, superficialibus, dimidiatis, scutiformibus, 300-400 μ . diam., aterrimis, nitidulis, ostiolo nullo manifesto, contextu fuligineo, punctulato; sporulis e mutua pressione initio subangulosis, dein perfecte sphaericis, 10-12 diam., e hyalino flavis, minute pluriguttulatis.

Hab. in foliis languidis Aristolochiæ Clematidis, Urticæ dioicæ, Conegliano Italiæ borealis.

2. **Sacidium Venetum** Speg. Mich. I. p. 487. — Peritheciis sparsis, 3465*P. lobatum*

superficialibus subglobosis, 200-250 μ ., atro-cærulescentibus, nitidulis, astomis, contextu atro-fuligineo, punctulato; sporulis ellipticis, crassiuscule tunicatis utrinque rotundatis, 12-15 \approx 8-9, chlorino-flavidis, eguttulatis.

Hab. ad folia viva Salicis purpureæ, Conegliano Italiæ bor. rarissime. — Contextu perithecorum cum *S. Spegazziniano* perfecte congruit.

3. **Sacidium Ulmariae** Sacc. et Roum. Mich. II. p. 631. — Peritheciis 3466*P. lobatum*

gregariis epiphyllis, subsuperficialibus, nigris, scutiformibus, astomis, $\frac{1}{2}$ -1 mill. diam., tunica olivaceo-fusca anhisto; sporulis perfecte globosis, 4-5 μ . diam., dilutissime roseis, hyalino-nucleatis, intermixtis pedicellis (?), 4 \approx $\frac{1}{2}$, hyalinis.

Hab. in pag. superiore foliorum Spirææ Ulmariae in Arduennis (LIBERT).

4. **Sacidium chartarum** Sacc. et Penz. Mich. II. p. 631. — Peritheciis 3467*P. lobatum*

sparsis, superficialibus, dimidiatis, astomis, atronitidis, inframancis nucleumque albidum ostendentibus, $\frac{1}{4}$ mill. diam.; contextu anhisto: sporulis globosis v. e mutua pressione anguloso-sphaericis, 14-18 μ . diam., intus granulosis, hyalinis.

Hab. in charta typographica putrescente uda Lyon Galliae (THERY).

II. *Species quoad genus dubiæ.*

Contextus peritheci indescrptus.

5. **Sacidium Symploci** Cooke in Grevillea. — Epiphyllum; peritheciis punctiformibus, atris, scutatis, gregariis; sporulis subglobosis, hyalinis, 4 ≈ 3. 3468
Hab. in foliis *Symploci tinctoriæ*, Aiken Carol. infer.
6. **Sacidium Gleditschiæ** Lév. Ann. Sc. nat. 1845, p. 64. — Hypophyllum; peritheciis gregariis punctiformibus applanatis rugulosis secedentibus, ostioliis pertusis vix conspicuis; sporulis ovoideis continuis, hyalinis. 3469
Hab. in foliis *Gleditschiæ* in Texas Amer. bor.
7. **Sacidium Ixerbæ** Cooke N. Zeal. Fungi in Grevillea. — Epiphyllum, gregarium; peritheciis atris, prominulis, nitidis; sporulis subglobosis, hyalinis exacte globosis vel globoso-ellipsoideis, 7 ≈ 6. 3470
Hab. in pag. sup. foliorum *Ixerbæ brexioidis*, Tuaranga Novæ Zelandiæ.
8. **Sacidium Gomphocarpi** Kalch. et Cooke in Grev. 1880, p. 20. — Maculis suborbicularibus, fuscis; peritheciis gregariis, minimis, applanatis, membranaceis, fuscis; sporulis subglobosis, achrois, 4 μ . diam. 3471
Hab. in foliis *Gomphocarpi fruticosi* in Africa australi.
9. **Sacidium Duriei** Mont. Fl. Alg., I. p. 613 et Syll. Crypt. n. 968. — Amphigenum; peritheciis sparsis aut confertis minutissimis, hemisphæricis fuscis, tandem elabentibus, punctilla alba relinquentibus; sporulis subgloboso-oblongis hyalinis. 3472
Hab. in foliis siccis *Dipsaci silvestris*, Alger (DURIEU).
10. **Sacidium junceum** Mont. VII. Cent. pl. cell. n. 12. — Peritheciis gregariis minimis atris, albo-farctis, mox circumscissis $\frac{1}{3}$ mill. d.; sporulis breviter subsemilunaribus, hyalinis, 6-guttulatis, utrinque acutiusculis. 3473
Hab. in ramis *Spartii juncei* prope Montaud-lès-Miramas Galliæ (CASTAGNE). — Affine *Sac. Natricis*, sed duplo minus.
11. **Sacidium Sambuci** Mont. in Castag., Supplém., p. 68 et Syll. Crypt. n. 969. — Peritheciis gregariis celluloso-membranaceis margine radiatis brunneis, apice poro pertusis tandemque deciduis; sporulis hyalinis oblongis breviter pedicellatis, biguttulatis. 3474
Hab. in ramis emortuis *Sambuci nigræ*, Montaud Galliæ (CASTAGNE).
12. **Sacidium versicolor** Desm. Ann. Sc. nat. 1853, p. 217. — Peri- 3475

theciis dimidiatis superficialibus, minutis, subgregariis, scutiformibus, udis convexiusculis, siccis, sæpe plicatis, margine vix radiatis, poro pertusis, initio argenteis, dein atris ac circumscissis; nucleo albido; sporulis oblongis, obtusiusculis, subfusoides, 12 = 3-4, 4-guttulatis.

Hab. in sarmentis vivis Rubi fruticosi in Gallia.

13. **Sacidium vegetans** Schw. Syn. Am. bor. n. 2198. — Peritheciis 3476 orbiculatis et difformibus superficialibus nigris, aggregatis sed non confluentibus in maculas; centro subelevato, pseudostiolato; superficie scutiformi rugosa.

Hab. in junioribus virgultis Staphyleæ, frigore tactis sed non omnino enecatis, Bethlehem Amer. bor.

14. **Sacidium Mauritiæ** Mont. Syll. Cr. n. 971, et Cent. II. n. 64, in 3477 Ann. 2, XIV. p. 330, *Phoma Mauritiæ* Mont. olim. — Sphæriæforme, convexo-applanatum, leve, subepidermide nidulans: pseudoperithecio fusco-nigro (a matrice mutata? suppeditato); sporulis ovoideis minimis fuscis.

Hab. in petiolis Mauritiæ flexuosæ in Guyana (LEPRIEUR).

15. **Sacidium Bryoniæ** Schw. Syn. Amer. bor. n. 2199. — Subepider- 3478 micum, tectum, punctiforme, minutissimum, atrum, ostiolo prorumpente subelevato; excussum, linquens foveolam pallidam cavam in epidermide.

Hab. in ramulis junioribus Bryoniæ radicans, frigore enecatis, Bethlehem Amer. bor.

16. **Sacidium Natricis** Mont. Syll. n. 970. — Peritheciis gregariis mi- 3479 nutis dimidiatis convexis, demum circumscissis, atris, albo-farctis poroque pertusis; sporulis cymbiformi-ellipticis, 3-guttatis, longe pedicellatis.

Hab. in caulibus Ononidis Natricis in Galloprovincia (CASTAGNE).

17. **Sacidium alpestre** Ces. Flora 1855, p. 270. — Peritheciis scu- 3480 tiformibus, atris; sporulis lunulatis, utrinque obtusis.

Hab. in caule Aconiti Napelli in montibus Lombardia et Piemonte, sociâ *Mazzantiâ Napelli*.

18. **Sacidium Chenopodii** Nees in K. et Schm. Myk. Heft. II. p. 64, 3481 t. II. f. 2, Corda Aul. t. I. f. 54, 4-5. — Peritheciis convexiusculis, epiphyllis, sparsis, minutis, nigris, rugulosis; sporulis subglobosis, pellucidis.

Hab. in foliis Chenopodii viridis, Leyden Hollandiæ.

19. **Sacidium microsporum** Fr. Summa Veg. Scand. pag. 420. — He- 3482

mispæricum, punctiforme, astomum, magnitudine varium, atrum; sporulis minutis globosis.

Hab. in caulibus herbarum in Suecia.

20. **Sacidium umbilicatum** Fr. Summa Veg. Scand. p. 420.

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Hab. in caule Chærophylli bulbosi in Suecia.

PIROSTOMA Fries Summa V. S. p. 395 (Subgenus) (Etym. *peiro* transfigo, et *stoma*). — Perithecia dimidiata scutiformia subcircularia vel oblonga, membranacea, ostiolo umbilicato pertusa. Sporulæ globoso-ellipsoideæ, continuæ, fuliginæ.

1. **Pirostoma circinans** Fr. Summa V. S. p. 395, Fuck. Symb. p. 401, 3484

Coniosporium circinans Fr. S. M. III. p. 257, *Sphæria stigmattella* Wallr. Fl. Cr. n. 3797. — Peritheciis scutiformi-elongatis, adpressis, primo sparsis dein aggregatis, subcircinantibus, atris subnitidis centro umbilicato-pertusis; sporulis globosis vel ovoideis, fuscis, 12 μ . diam. circ.

Hab. in vaginis, foliis culmisque Phragmitis communis in Suecia, Germania, Gallia, Belgio, Italia, Mongolia.

DISCOSIA Lib. Exs. n. 345, Fr. Summa p. 423 (Etym. a *disco*, ob perithecii formam). — Perithecia dimidiata, disciformia, subsurfacealia, facile secedentia, atra, sæpe nitidula, astoma vel ostiolata, membranacea. Sporulæ oblongo-allantoideæ 2-pluriseptatæ, sæpius 3-septatæ, utrinque 1-ciliatæ, hyalinæ vel chlorinæ, basidiis bacillaribus suffultæ.

1. **Discosia Artocreas** (Tode) Fr. Summa p. 423, *Sphæria Artocreas* 3485

Tode Meckl. II. p. 77. — Peritheciis gregariis, innato-liberis, orbicularibus, nigris, nitidis, primo convexis, levibus, mox circa ostiolum punctiforme depressis, demum collapsis, rugoso-plicatis; sporulis botuliformibus utrinque sub apice rotundato setigeris, 3-septatis, hyalinis vel flavidis, 14-22 \approx 2-3,5, setis 10-15 μ . longis.

Hab. in foliis plurimarum arborum et herbarum, Ligustri, Platani, Quercus (*Disc. quercicola* De Not.), Fraxini, Faggi (*Disc. faginea* Lib.), Prunorum, Rosarum, Ruborum, Cratægi, Betulæ, Populi, Acerum, Sorbi, Vitis, Mali, Lauri, Cercidis, Abietum, Magnoliarum, Araliæ, Robiniæ, Coryli, Pæoniæ, Ranunculi, Pteridis etc. in Gallia, Germania, Britannia, Italia, America bor. vulgatissima. — f.

Camphoræ Sacc. Mich. II. p. 281: sporulis solito longioribus, nempe 30 \approx 3 $\frac{1}{2}$, tereti-curvulis, 3-septatis, hyalino-viridulis, setulâ 10 \approx 3 $\frac{3}{4}$

hyalinâ utrinque auctis. In foliis Camphoræ officinarum, Firenze Italiæ mediæ (Doct. O. PENZIG).

2. **Discosia alnea** (Pers.) Berk. Outl. p. 318, *Dothidea alnea* Fr. 3486
Syst. Myc. II. p. 564, *Xyloma alneum* Pers. Syn. p. 108, *Phlyctidium nitidum* Wallr., *Discosia nitida* Lév. — Amphigena, sparsa, subrotunda, nigra, nitida, initio convexo-plana dein depressa, collapsa rugoso-plicata; sporulis 3-septatis, utrinque oblique 1-aristatis, 20 μ . long.

Hab. ad folia subviva et languida Alni glutinosæ, A. incanæ, Magnoliæ in Suecia, Germania, Britannia, Amer. bor. — Probabiliter mera forma *Disc. Artocreatis*.

3. **Discosia clypeata** De Not. Micr. Des. III. n 7, nec in Saggio Discosia f. IV. quæ potius *D. Artocreas* spectat, Fres. Beitr. p. 68, t. VIII. f. 4. — Peritheciis scutiformibus, majusculis, $\frac{1}{2}$ mill. d., subcircularibus, atris, demum rugulosis; sporulis fusoidis, utrinque acutis et ex ipso apice setulâ sporulam subæquante auctis, 3-septatis, non constrictis, subhyalinis, 16-17 μ . longis.

Hab. in foliis dejectis Quercus, Fagi, Rosæ, Cratægi et Populi in Italiâ et Germania. — Teste Fresenio ab *D. Artocreate* peritheciis majoribus et setulis ex ipso apice sporularum oriundis facile dignoscitur.

4. **Discosia vagans** De Not. Att. Accad. Tor. 1849, p. 354, f. 5. — 3488
Peritheciis hypophyllis v. epiphyllis sparsis v. gregariis scutato-convexis, circularibus, oblongis v. reniformibus ostiolo breve papillato pertusis; sporulis teretiusculis, subrectis, utrinque acutiusculis, 3-septatis, non constrictis, utrinque sub apice setulâ patulâ sporulam dimidiam vix æquante auctis, 24-26 \simeq 3-3,5.

Hab. in foliis Arbuti Unedonis et Lauri nobilis, Genova Italiæ borealis.

5. **Discosia maculicola** Gerard in Ellis North Amer. Fungi n. 1175. 3489
— Maculis epiphyllis vagis arescendo candicantibus, anguste fusco-cinctis; peritheciis dense gregariis, initio velatis, dein erumpentibus, scutatis, centro exiguo umbonato-pertusis, 150-170 μ . diam., atris; sporulis tereti-fusoidis, utrinque obtusiusculis, 14-15 \simeq 3-3,5, 3-septatis, chlorino-hyalinis, infra apices utrinque 1-ciliatis, ciliis 6-7 μ . longis.

Hab. in foliis languidis Gaultheriæ procumbentis, Newfield N. J. Amer. bor.

6. **Discosia Julia** Speg. Mich. II. p. 281. — Peritheciis sparsis, magnis, $\frac{1}{2}$ -1, $\frac{1}{2}$ mill. diam., disciformibus, lenticularibus, siccitate

rugulosis, atris; sporulis cylindræo-fusoideis inæquilateralibus, utrinque acutiuscule rotundatis, sublateraliter utrinque uniciliatis, granuloso-farctis, continuis, minutis, 5-6 = 1½, hyalinis; cilio superiore 2 μ . long. inferiore 3-4 μ . long.

Hab. ad folia Populi Tremulæ in montanis prope Belluno Italiæ bor. rarissime. — Species prædistincta, astoma.

7. **Discosia rugulosa** B. et C. North Amer. Fungi n. 432. — Peritheciis orbicularibus, opacis, rugosis. 3491

Hab. in foliis Caryæ albæ, Alabama, Florida, Chautauqua Lake Amer. bor. — A *Disc. Artocreate* præsertim peritheciis rugulosis et opacis mox distinguenda.

8. **Discosia deflectens** Sacc. Mich. II. p. 145. — Peritheciis (spuriis?) in maculis foliorum epiphyllis dealbatis gregariis, epidermide velatis, scutatis, nigris, 130 micr. diam., late pertusis; sporulis fusoides, curvulis, 15-18 = 2½, 1-3-septatis, hyalino-chlorinis, infra apices setulas obliquas gerentibus. 3492

Hab. in foliis Ilicis opacæ in Carolina infer. (RAVENEL). — A *Disc. minima* B. et C., Ilicis quoque incola differt peritheciis pro genere mediocribus, nec minimis, sporulis longioribus, septulatis etc.

9. **Discosia ostiolata** B. et C. North Pac. Exp. n. 128. — Peritheciis elevatis; ostiolo distincto prominulo perforato; sporulis 3-septatis. 3493

Hab. in foliis emortuis in insula Bonin Maris Pacifici.

10. **Discosia minima** B. et C. North Amer. Fungi n. 432^{bis}. — Peritheciis gregariis minutissimis, innumeris, punctiformibus; sporulis 36-37 μ . longis, continuis (ob immaturitatem?), utrinque appendiculatis. 3494

Hab. in foliis Ilicis et Tiliæ pubescentis Alabama et Florida Amer. bor. — Sporulæ potius forte 12-13 μ . tantum longæ; videtur enim præ minutie peritheciolorum legendum in diagnosi non .0015 (= 37 μ), sed .0005 (= 13 μ).

11. **Discosia pleurochæta** Mont. et Dur. Fl. Alg. I. pag. 587, t. 27 f. 10, et Syll. Crypt. n. 994. — Amphigena; peritheciis sparsis rotundatis, convexis, apice late pertusis tandem rimose dehiscentibus; sporulis fusiformibus, 3-4-septatis, citra utrumque finem filamentis hyalino instructis, 30 = 2,5. 3495

Hab. in foliis dejectis Phillyreæ latifoliæ, Alger (DURIÉU).

12. **Discosia minuta** Ces. in Kl. Herb. Myc. n. 1961. — Peritheciis gregariis planiusculis, epiphyllis; sporulis cylindræis obsolete cur- 3496

vulis; aristis ex apicibus potius emergentibus, axi sporularum fere parallelis iisque æquilongis.

Hab. in foliis in Italia boreali.

13. **Discosia elliptica** Fres. Beitr. Myk. p. 67, t. VIII. f. 9-11. — 3497

Peritheciis subsuperficialibus scutatis ellipticis, $\frac{1}{2}$ mill. long., atris, levibus, centro pertusis; sporulis tereti-fusoideis rectis, 3-septatis non constrictis, hyalinis, infra apices setulâ sporulam dimidiam æquante utrinque auctis, 15 μ . longis (absque ciliis).

Hab. in pag. inf. corticis Salicis caprææ, Cassel Germaniæ (RIESS).

14. **Discosia Vitis** Schulz., Pirotta Funghi Vit. pag. 64. — Pseudo- 3498

peritheciis simplicibus, subsphæricis, superne nigris, duris; basidiis simplicibus, hyalinis; sporulis fusiformi-ovatis, curvulis, tri-septatis, ad septa parum constrictis, loculis extimis appendiculâ ciliiformi ornatis, hyalinis, 22 \approx 5.

Hab. in ramis Vitis viniferæ in Hungaria.

15. **Discosia strobilina** Lib. Exs. n. 346, Fres. Beitr. p. 68, t. VIII. 3499

f. 7-8. — Peritheciis scutatis, subsuperficialibus, $\frac{1}{5}$ - $\frac{1}{2}$ mill. diam., atris, subcircularibus, levibus, centro brevissime papillulato-pertusis; sporulis tereti-fusoideis, rectiusculis, infra apices setulâ sporulam dimidiam superante, obliquâ utrinque auctis, 3-septatis, non constrictis, 18-20 μ . longis, subhyalinis.

Hab. ad conos dejectos Abietum in Arduennis.

16. **Discosia Passerinii** Sacc. Mich. I. p. 491, F. ital. tab. 435. — 3500

Peritheciis disciformibus, tandem concavis, nigris, minutis; sporulis falcatis, 20 \approx 4, 4-loocularibus, loculis 2 inter. olivaceis, extimis ciliisque, 20 \approx $\frac{1}{2}$, hyalinis.

Hab. in caule Epilobii Dodonæi, Vigheffio prope Parmam Ital. bor. (PASSERINI).

17. **Discosia grammita** B. et C. North Amer. Fungi n. 431^{bis}. — Pe- 3501

ritheciis hysteriiformibus opacis; sporulis oblongis, 3-septatis, 20 μ . long. appendicibus terminalibus, acutis.

Hab. in Pæonia arborea putri, New England Amer. bor. (RUSSEL).

18. **Discosia smilacina** De Not. Atti Accad. Tor. 1849, p. 354, f. VI. 3502

— Peritheciis scutiformibus, subsuperficialibus, medio subexcavatis et obsolete pertusis, $\frac{1}{4}$ mill. d.; sporulis teretiusculis, subrectis, utrinque obtusiusculis et sub apice setulâ sporulam dimidiam æquante auctis, 3-4-septatis, subhyalinis, 25 \approx 3-3,5.

Hab. in foliis siccis Smilacis asperæ prope Genova Ital.

bor. — An *Discosia maculicola* Gerard (citata in Peck Rep.) in foliis Smilacis rotundifoliæ in America bor. diversa sit, non liquet; sed *D. maculicola* Gerard in Ellis North Amer. Fungi n. 1175 differt.

19. **Discosia Podisomatis** C. et Ellis in Grevillea. — Sparsa; peritheciis convexis, minimis, opacis; sporulis cylindræis, curvulis, triseptatis, 25-28 μ . longis, utrinque aristatis. 3503

Hab. in Podisomate macropode vetusto, New Jersey Amer. bor.

ENTOMOSPORIUM Lév. in Moug. St. Vog. n. 1457, *Morthiera* Fuck. Symb. Myc. p. 382 (Ety. *entoma* insecta et *spora*). — Perithecia hemisphærico-applanata, astoma, atra (spuria?). Sporulæ cruciato-tetrameræ, nempe didymæ accedentibus 2 loculis lateralibus, omnibus vero setigeris. Basidia mox decidua.

1. **Entomosporium maculatum** Lév. in Moug. St. Vog. n. 1458. — Peritheciis epiphyllis applanatis, atris, subastomis; sporulis more generis, 4-cellularibus, 18-20 \approx 12, hyalinis, cellulis lateralibus minutis depressis, stipite filiformi 20 \approx $\frac{3}{4}$, setulis lateralibus prælongis. 3504

Hab. in foliis Piri communis in Gallia. — β . **domesticum** Sacc. Mich. II. p. 115, *Morthiera Mespili* Sacc. M. V. n. 525: sporulis 18 \approx 8, cellulis lateralibus depressiusculis, stipite 15 \approx $\frac{3}{4}$, setulis lateralibus prælongis. — In foliis Mespili germanicæ in Italia bor. et in Arduennis. — γ . **Cydoniæ** C. et Ellis in Grev. t. 99, f. 3: sporulis 12-15 \approx 6-7. — In foliis Cydoniæ in America boreali.

2. **Entomosporium Mespili** (DC.) Sacc. Mich. II. p. 115, *E. brachiatum* Lév. in Moug. Stirp. Vog. n. 1457, *Morthiera Mespili* Fuck. Symb. Myc. p. 382. — Affinis præcedenti, sed sporulæ 25 \approx 15, cellulis lateralibus paullo majoribus et rotundioribus, stipite crassiore 20 \approx 2 $\frac{1}{2}$; setulis lateralibus brevioribus. 3505

Hab. in foliis Cotoneastri tomentosæ, *C. vulgaris*, Piri silvestris in Gallia, Helvetia et Germania.

3. **Entomosporium Thümenii** (Cooke) Sacc. *Morthiera Thümenii* Cooke in Thüm. Myc. Un. n. 895. — Peritheciis numerosis, epiphyllis vel interdum etiam amphigenis, applanatis, orbiculatis, rugulosis, sæpe confluentibus, atris in macula parva, fusca; sporulis illis *Entomosporii Mespili* similibus sed loculis superioribus, 14 \approx 9, loculis in- 3506

ferioribus 8 μ . longis, ciliis omnibus æquilongis, 9-12 μ . longis, hyalinis.

Hab. ad folia viva Cratægi glandulosæ et Cratægi flavi in Carolina australi (RAVENEL), et Cratægi sanguineæ in Sibiria asiatica (MARTIANOFF).

ACTINOTHYRIUM Kunze Myk. Heft. II. p. 81 (Etym. *actin* radius, et *thyreos* scutum, perithecium). — Perithecia dimidiata, clypeata, subsecedentia, non vel vix hiantia, membranacea, margine eximie radiato-fimbriata, atra. Sporulæ filiformes, hamatæ, hyalinæ.

1. **Actinothyrium graminis** Kunze Myk. Heft. p. 81, t. II. f. 3. — 3507

Peritheciis sparsis vel gregariis, dimidiatis planis, subcircularibus, centro subumbonatis, margine conspicue radiato-fimbriatis, atris, $\frac{1}{2}$ -1 mill. diam.; sporulis filiformibus, hamatis, 50 \approx 1, hyalinis.

Hab. in foliis siccis Moliniæ, Holci, etc. in Germania, Gallia, Italia, Britannia, Belgio.

2. **Actinothyrium cubense** B. et C. Cub. Fungi n. 552. — Peritheciis 3508

latissime conicis, quandoque confluentibus e cellulis radiantibus medio compactioribus constructis; basidiis longis; sporulis filiformibus quandoque curvatis.

Hab. in pag. super. foliorum in iusula Cuba.

3. **Actinothyrium caulincolum** Schw. Syn. Amer. bor. n. 2178. — Or- 3509

biculatum, satis elevatum, nigro-fuscum subumbonatum, epidermide tectum, margine radianti fibrilluloso; peritheciis sparsis sed numerosis, multo majoribus quam in ceteris speciebus.

Hab. in caulibus, præsertim Eupatorii, Bethlehem Amer. bor.

4. **Actinothyrium Magnoliæ** Schw. Syn. Amer. bor. n. 2177. — Ple- 3510

rumque peritheciis concentrice sitis, tamen sparsis punctiformibus e fusco nigris, nidulantibus in foveolis nervorum in pagina aversa, applanato-convexulis, orbiculato-scutiformibus.

Hab. in aversa pagina foliorum Magnoliæ glaucæ, Philadelphia Amer. bor. — «*Actinothyrio graminis* satis affine, sed in ambitu fere integrum nec tam radiato-fibrosam; hinc potius *Leptothyrium* mihi videtur».

MELOPHIA Sacc. (Etym. *melas* et *ophis* anguis, h. e. *Melasmia* scolecospora), *Melasmia* Lév. p. p. — Perithecia applanato-convexula, dimidiata, molliusecula, atra v. glauco-fusca demum corrugata, astoma v. irregulariter dehiscentia. Sporulæ elongato-serpentiniformes, continuæ, hyalinæ. — Est *Melasmia* scolecospora.

1. **Melophia ophiospora** (Lév.) Sacc. *Melasmia ophiospora* Lév. Ann. 3511
 Sc. nat. 1848, p. 253. — Peritheciis gregariis subseriatis, adnatis,
 basi applanatis, convexis, levibus, demum depressis corrugatis, in-
 tus extusque nigris; sporulis elongatis, continuis, utrinque obtusis,
 curvatis vel serpentiformibus.

Hab. in cortice *Quercus Suberis* in Corsica et Gallia me-
 ridionali.

2. **Melophia Woodsiana** Sacc. et Berl. — Peritheciis remote sparsis, 3512
 epiphyllis, subiculo tenui depresso albo filamentoso maculiformi
 insertis, facile secedentibus convexis, scutatis, astomis, glauco-fu-
 scis, $\frac{1}{5}$ - $\frac{1}{4}$ mill. diam., contextu tenui-membranaceo, olivaceo-fu-
 scio, minute sed distincte parenchymatico; sporulis cylindratis,
 utrinque obtusiusculis, 30-35 \approx 1,5, ferri equini vel circuli ad in-
 star arcte convolutis, pluri-nucleolatis, hyalinis; basidiis bacilla-
 ribus, 10 \approx 1, hyalinis fasciculatis suffultis.

Hab. in foliis (phylloidiis) languidis *Acaciae harpophyllae*
 in Queenslandia australi (SCORTECHINI). — Sporulae *Trichinam spi-*
ralem optime æmulantur. — Forte novi generis typus, cl. Woodsio
 de historia naturali Malesiae optime merito dicatus.

LEPTOSTROMELLA Sacc. Mich. II. p. 632. (Etym. a *Leptostroma*,
 cui analogum genus). — Perithecia epidermide velata, dein sub-
 superficialia, elongata, depresso-convexa, subcarbonacea, atra, rimâ
 plus minus manifestâ longitudinaliter exarata. Sporulae bacillares
 vel filiformes, continuæ vel septulatae, hyalinæ. Basidia bacillaria.
 — Est hoc genus meo sensu quasi *Leptostroma* sed sporulis bacil-
 laribus ornatum.

1. **Leptostromella hysterioides** (Fr.) Sacc. *Leptostroma hysterioides* 3513
 Fr. S. M. II. p. 599. — Oblongum, nigrum, varium, centro tumi-
 dulo substriatulo secedens; sporulis cylindratis, curvatis, 20-25
 \approx 2, uniserialiter pluriguttulatis, hyalinis.

Hab. in caulibus languidis vel emortuis *Pæoniae*, *Dianthi*,
Cytisi, *Peucedani*, *Cynanchi* in Suecia, Germania, Italia,
 Sibiria. — Var. **graminicolum** De Not. Micr. ital. III. f. 6: peri-
 theciis oblongis, quam typi minoribus, utrinque obtusiusculis, de-
 pressis, atris, facile secedentibus, sulcatis; sporulis bacillari-fusoi-
 deis, curvis 16-18 μ . longis. In vaginis culmisque *Moliniae* cæ-
 ruleæ in Italia bor. — Forma semper oblonga (elliptica vel elon-
 gata), striis longitudinalibus e caule tenuissimis; sed minime undi-
 que rugulosum. Color plerumque opacus.

2. **Leptostromella tenuis** Sacc. Mich. II. p. 282 (*Leptostroma*). — 3514

Peritheciis gregariis, innato-erumpentibus, elongatis, modice depressis, minutis, $\frac{1}{2} \approx \frac{1}{5}$, astomis, fuligineo-parenchymaticis; sporulis cylindraceutis, curvulis, 20-22 $\approx 3\frac{1}{2}$, hyalinis.

Hab. in caule Lepidii graminifolii, Padova Italiæ bor.

3. **Leptostromella septorioides** Sacc. et Roum. Mich. II. p. 632. — 3515

Peritheciis amphigenis, parallele gregariis, innato-erumpentibus, oblongis, $\frac{3}{4} \approx \frac{1}{3}$ mill. d., rimulâ notatis, atris, carbonaceis; sporulis bacillaribus leniter curvis, 40-45 $\approx \frac{3}{5}$ -1, hyalinis, continuis, basidiis fasciculatis dimidio brevioribus suffultis.

Hab. in foliis aridis graminum (Festucæ?) in Arduennis (LIBERT).

4. **Leptostromella juncina** (Fr.) Sacc. Mich. II. p. 352, *Leptostroma* 3516

juncinum Fr. Syst. Myc. II. p. 598. — Peritheciis planis, elongatis, clypeatis, atro-nitentibus, astomis, rimulâ parum distinctâ exaratis; sporulis cylindraceutis, curvulis, 25-30 ≈ 2 , pluriguttulatis, hyalinis, basidiis brevissimis crassiusculis suffultis.

Hab. in calamis Junci effusi, J. conglomerati etc. in Suecia, Italia, Germania, Gallia, Britannia.

5. **Leptostromella pteridina** Sacc. et Roum. Mich. II. p. 353. — Pe. 3517

Peritheciis elongatis applanatis, initio epidermide velatis dein subsuperficialibus, $1\frac{1}{2} \approx \frac{1}{2}$, nigris, non sulcatis; sporulis filiformi-acicularibus, 80 $\approx 1\frac{1}{2}$, hyalinis, 5-6-septatis.

Hab. in stipitibus Pteridis aquilinæ, sociâ *Didymellâ Hyphe* (Cooke) in Algeria (Doct. TRABUT).

6. **Leptostromella filicina** (B. et C.) Sacc. *Cryptosporium filicinum* 3518

B. et C. North Amer. Fung. n. 397. — Nitidum, hysteriiforme; conidiis curvatis, filiformibus; basidiis sporulâ dimidio brevioribus.

Hab. in stipitibus emortuis Filicum, Alabama, Osmundæ cinnamomeæ in Pensylvania.

REPERTORIUM

SPHÆROPSIDEARUM LEPTOSTROMACEARUM

SECUNDUM MATRICES

Obs. A. indicat *Actinothecium*. — Ar. *Actinothyrium*. — D. *Discosia*. — E. *Entomosporium*. — L. *Leptothyrium*. — La. *Leptostroma*. — Lb. *Labrella*. — Le. *Leptostromella*. — M. *Melasmia*. — Me. *Melophia*. — P. *Piggotia*. — Pr. *Pirostoma*. — S. *Sacidium*.

N. 3330 — 3518 citantur 330 — 518

- | | |
|--|---|
| Abies — L. 334. — D. 499. | Camellia — La. 415. |
| Acacia — Me. 512. | Camphora — D. 485. |
| Acer — L. 351. — M. 390, 391. — La. 401, 402, 444. — D. 485. | Capsicum — Lb. 458. |
| Achillea — L. 379. | Caragana — M. 393. |
| Aconitum — L. 370. — S. 480. | Carex — A. 397. — La. 431, 432. |
| Acorus — L. 382. | Carya — D. 491. |
| Actea — L. 370, 439. | Castanea — L. 341. |
| Ailanthus — L. 348. | Celastrus — L. 355. |
| Alnus — L. 333. — D. 486. | Cerastium — La. 436. |
| Angelica — L. 370. — La. 441. | Cerasus — L. 343. |
| Aralia — D. 845. | Cercis — D. 485. |
| Arbutus — M. 394. — D. 488. | Cedrus — Lb. 454. |
| Aristolochia — S. 464. | Chenopodium — S. 481. |
| Arundo — La. 417, 418. | Cichorium — La. 446. |
| Aspidium — La. 434, 435. | Cimicifuga — L. 370. — La. 436. |
| Aster — L. 363. | Clitorea — L. 362. |
| Berberis — M. 395. | Coffea — L. 349. |
| Betula — L. 335. — D. 485. | Coniferæ — L. 361. |
| Brassica — L. 365. | Convallaria — La. 426. |
| Bryonia — S. 478. | Coriaria — L. 352. |
| Buxus — La. 413. | Cotoneaster — E. 505. |
| | Corylus — L. 331, 332. — Lb. 453. — D. 485. |

- Cratægus — La. 413. — D. 485. 487. — E. 506.
 Cydonia — E. 504.
 Cynanchum — Le. 503.
 Cytisus — L. 356. — Me. 513.

 Delphinium — La. 436.
 Dentaria — L. 380.
 Dianthus — Le. 513.
 Dipsacus — S. 472.

 Epilobium — D. 500.
 Erigeron — L. 364.
 Eriophorum — La. 431.
 Eupatorium — Ar. 508.
 Euphorbia — La. 413. 436.

 Fagus — L. 336. — D. 485. 487.
 Filicaceæ — Le. 518.
 Fraxinus — P. 389. — D. 485.

 Gaultheria — D. 489.
 Glechoma — La. 443.
 Gleditschia — S. 469.
 Gomphocarpus — S. 471.
 Graminaceæ — La. 422. — Le. 515.

 Helianthemum — L. 381.
 Heracleum — Lb. 457.
 Holcus — Ar. 507.
 Holoschœnus — L. 384.
 Hypericum — La. 442.

 Ilex — L. 353. — D. 492. 494.
 Impatiens — La. 447.
 Ipomœa — L. 366.
 Iuncus — La. 429. — Le. 516.
 Ixerba — S. 470.

 Lagerstrœmia — La. 411.
 Lamium — La. 437.
 Larix — La. 410.
 Laurus — D. 485. 488.
 Lepidium — Le. 514.
 Ligustrum — D. 485.
 Lindsæa — L. 386.
 Linum — La. 436.

 Lonicera — L. 330. — La. 450.
 Lunaria — L. 370. 374.
 Luzula — L. 383. — La. 429. 430.
 Lychnis — L. 367.

 Magnolia — D. 485. 486. — Ar. 510.
 Malva — La. 445.
 Mauritia — S. 477.
 Medicago — L. 375.
 Mespilus — E. 504.
 Molinia — Ar. 507. — Le. 513.
 Myrtaceæ — L. 346.

 Ononis — S. 479.
 Osmunda — La. 434. — Le. 518.

 Pœonia — D. 485. 501. — Le. 513.
 Passiflora — L. 368.
 Peucedanum — Le. 513.
 Phillyrea — D. 495.
 Phragmites — La. 419. — Pr. 484.
 Pinus — L. 334. — La. 404. 407. 408. 409.
 Pirus — L. 359. 360. — La. 416. — D. 485. — E. 504. 505.
 Platanus — D. 485.
 Poa — La. 420.
 Podisoma — D. 503.
 Polygonatum — Lb. 463.
 Polygonum — M. 396.
 Populus — L. 337. — D. 485. 487. 490.
 Potentilla — L. 369. 381. — La. 436. 452. — Lb. 455.
 Prunus — L. 344. — La. 414. — D. 485.
 Pteris — L. 385. — La. 433. 434. — D. 485. — Le. 517.

 Quercus — L. 338. 339. 340. 347. 369. — La. 412. — D. 485. 487. — Me. 511.

 Ranunculus — D. 485.
 Rhus — La. 403.
 Robinia — D. 485.
 Rosa — L. 342. 369. — La. 413. — Lb. 459. — D. 485. 487.

- Rubus — L. 345. 354. 369. — La. 399. 400. 410. — S. 475. — D. 485.
Ruscus — La. 448.
Sabal — La. 424.
Salix — P. 388. — La. 404. 413. 436. — S. 465. — D. 485. 497.
Salvia — L. 373.
Sambucus — S. 474.
Saussurea — La. 413.
Scirpus — La. 427.
Scrophularia — L. 380. — La. 437.
Senecio — L. 370.
Sibbaldia — Lb. 456.
Smilax — A. 398. 425. — D. 502.
Sonchus — L. 372.
Sorbus — D. 485.
Spartium — S. 473.
Spiræa — La. 440. — S. 466.
Staphylea — S. 476.
Stellaria — La. 449.
Symplocos — S. 468.
Tanacetum — La. 438.
Teucrium — L. 370. 371. — La. 436.
Thalictrum — L. 376.
Tilia — D. 494.
Tragopyrum — L. 350.
Typha — La. 428.
Ulmus — P. 387. — M. 392.
Urtica — L. 377. — S. 464.
Vitis — L. 357. 358. — D. 485. 498.
Zizania — La. 423.

Fam. 4. Excipulaceæ Sacc.*Subcupulatæ* Sacc. Mich. II. p. 9.

Perithecia cupuliformia v. patellata v. excipuliformia v. hysterioidea, initio subinde subsphæroidea, sed mox late aperta, membranacea v. carbonacea, atra, erumpentia v. superficialia, glabra v. pilosa.

Clavis analytica generum.**Sect. 1. Hyalosporæ Sacc.**

Sporulæ globosæ v. ellipsoideæ v. oblongæ, continuæ, subhyalinæ.

I. Perithecia glabrescentia.

§ Perithecia subcupulata.

A) Perithecia ex hyphis fuscis conglutinatis composita.

665 *Godroniella*. Perithecia initio sphæroidea clausa, mox ore integro late aperta, subceracea.

B) Perithecia celluloso-contexta.

665 *Excipula*. Perithecia excipuliformia seu cupulata; basidia simplicia.

670 *Heteropatella*. Perithecia excipuliformia seu cupulata; basidia ramosa.

671 *Dothichiza*. Perithecia initio subglobosa, clausa, dein irregulariter dehiscencia et collabentia.

672 *Lemalis*. Perithecia cupulata v. urceolata, carnosula v. membranacea, purpurascentia v. flavida.

673 *Catinula*. Perithecia tereti-conica v. cupulata, subcoriacea v. cornea, atra.

674 *Discula*. Perithecia disciformia, sæpe imperfecta, epidermide tecta (Est *Discella* amerospora).

§§ Perithecia hysterioidea v. valvatim hiantia.

677 *Sporonema*. Perithecia valvatim hiantia; basidia bacillaria, typice ramosa.

678 *Pleococcum*. Perithecia valvatim hiantia; basidia obsoleta v. simplicia.

679 *Psilospora*. Perithecia late hysterioideo-dehiscencia.

II. Perithecia pilosa v. setosa.

Amerosporium. Sporulæ muticæ; perithecia cupulata.

680 *Dinemasporium*. Sporulæ utrinque 1-aristatæ; perithecia cupulata.

687 *Polynema*. Sporulæ apice pluri-aristatæ; perithecia cupulata.

Sect. 2. Hyalodidymæ Sacc.

Sporulæ oblongæ v. ovatæ, 1-septatæ, hyalinæ.

689 *Discella*. Perithecia discoidea v. patellata, velata, sæpe imperfecta; basidia simplicia.

Pseudopatella. Perithecia globulosa dein crasse patellata, subsuperficialia; basidia ramulosa.

Sect. 3. Phragmosporæ Sacc.

Sporulæ oblongæ v. elongatæ, 2-pluriseptatæ, hyalinæ v. fusciculæ.

Excipulina. Perithecia subcupulata, glabra; sporulæ subinde subrostratæ.

Excipularia. Perithecia subcupulata, setosa.

Pilidium. Perithecia discoideo-inæqualia, glabra, margine dentato-lacera.

Sect. 4. Scolecosporæ Sacc.

Sporulæ filiformes, longæ, rarius breviores, continuæ v. septatæ, subinde in articulos dilabentes.

§ Perithecia stromate nullo inserta.

Schizothyrella. Perithecia subhemisphærica, dein laciniato-fissa; sporulæ in articulos cylindricos mox dilabentes.

Protostegia. Perithecia discoidea, initio velata; sporulæ anguste filiformes continuæ.

Oncospora. Perithecia subcupuliformia, erumpentia; sporulæ tereti-elongatæ, continuæ hamatæ.

§§ Perithecia stromate sclerotioideo v. cenangioideo inserta.

Ephelis. Perithecia pezizoidea stromate effuso sclerotiaceo vel cenangioideo suffulta.

GODRONIELLA Karst. Symb. myc. Fenn. XV. p. 158 (Etym. a *Godronia*, cui habitu affine genus). — Perithecia superficialia, sphæroidea, clausa, mox apice ore integro aperta, ex hyphis fuscis conglutinatis composita, atra, glabra, subceracea, sicca subcornea. Sporulæ elongatæ, continuæ, hyalinæ, basidiis filiformibus ramosis suffultæ.

1. **Godroniella juncigena** Karst. Symb. myc. Fenn. XV. pag. 158. 3519

Excipula juncigena Karst. Hedw. 1884, p. 5. — Peritheciis laxè gregariis, subsphæroideis, glabris, atris, disco minuto concolore, 0,5–0,8 mill. diam.; sporulis elongatis utrinque obtusiusculis, retis v. lenissime curvulis, 8–14 = 2; basidiis ramosis, 30 = 2.

Hab. ad culmos siccos Junci conglomerati prope Aboam Fennicæ.

EXCIPULA Fr. Syst. Myc. II. p. 190 et 596 et Summa V. Scand. p. 403. emend. (Etym. ab *excipula*, ob perithecia excipuliformia). — Perithecia innato-erumpentia excipuliformia v. capulata, membrana-

cea v. subcoriacea, celluloso-contexta, atra, glabra, ore integro orbiculari. Sporulæ oblongæ v. elongatæ, continuæ, hyalinæ, varie stipitatae. — Genus, initio valde heteroclitum, nunc merito in plura divisum. Species glabras phragmosporas ad *Excipulinam* duxi; hirtas amerosporas ad *Amerosporium*, hirtas phragmosporas ad *Excipulariam*. Maltæ vero species restant, ob ignotam fructificationem, omnino dubiæ. *Excipula* Fuck. est typice ascigera, hinc prorsus diversa.

1. *Genuinæ*: sporulis muticis.

1. **Excipula erumpens** Berk. North Amer. Fungi n. 452. — Congesta 3520
erumpens glabra; sporulis curvulis breviter apiculatis, 2-4-nucleatis, 15 μ . longis.

Hab. in caule Phytolaccæ in Pennsylvania (MICHENER). — β .

subhispidata Cooke in Grevillea: peritheciis hispidulis. In caule Phytolaccæ, New Jersey Amer. bor..

2. **Excipula subcalva** Ell. et Everh. Torr. Bot. Cl. 1884, p. 73. — 3521
Peritheciis tenuibus, substriatis, 150-200 μ . diam., apice apertis, margine (in sicco) incurvo, extus inæqualibus v. rugulosis ob cellulas elongatas, brunneas prominulas; sporulis oblongo-cylindraceis, minutissimis, 3-4 = 0,5-0,7.

Hab. in foliis Quercus obtusilobæ, Newfield N. J. in America boreali.

3. **Excipula Spirææ** Thüm. Pilzfl. Sibir. n. 674. — Peritheciis amphigenis, conico-elevatis, sparsis aut subgregariis, nitido-atris, nebulo marginatis; sporulis fusiformibus, curvatis, utrinque truncatulis, continuis, pluriguttulatis, hyalinis, 26-30 = 4. 3522

Hab. ad folia viva Spirææ thalictroidis in campis siccis arenosis pr. Minussinsk Sibiriae. — Species, teste auctore, dubia.

4. **Excipula dispersa** Lév. Ann. Sc. nat. 1846, p. 273. — Peritheciis sparsis globosis nudis intus extusque nigris, ore minuto demum ampliato; sporulis subfusiformibus, 2-guttatis, subhyalinis. 3523

Hab. in foliis Caricis plantagineæ in horto botanico parisiensi in Gallia.

5. **Excipula globosa** Lév. Ann. Sc. nat. 1846, p. 273. — Peritheciis epiphyllis, gregariis, discretis, globosis, nudis, nigris, ore obtuso aperto; sporulis fusoideo-elongatis curvatis utrinque acuminatis, subhyalinis. 3524

Hab. in foliis Glycines in Guyana Batava.

II. *Melanophæa*: sporulis utrinque fasciculato-appendiculatis.

6. **Excipula melanophæa** Fr. Syst. myc. II. p. 199. *Peziza mela-* 3525
nophæa Kunze, *Phlyctidium melanophæum* Wallr. Fl. cr. n. 2324.
— Peritheciis innato-erumpentibus, atris, primum clausis, convexis,
dein in discum concavum dilatatum reclusis; sporulis anguste fu-
siformibus, curvatis, utrinque appendiculis fasciculatis subtilissi-
mis auctis.

Hab. ad squamas conorum Abietis excelsæ in Thuringia
et Rhenogovia.

III. *Dubiæ*: sporulis ignotis.

7. **Excipula petiolicola** Fuck. Symb. Myc. pag. 400. — Peritheciis 3526
sparsis, minutis, hemisphæricis oblongisve, siccis cupulatis, atris.

Hab. in petiolis foliorum Populi tremulæ in Rhenogovia
et Tiliæ in Britannia.

8. **Excipula gregaria** Fr. et Kunze in Linnæa V. p. 552. — Innata; 3527
peritheciis minimis, punctiformibus dimidiatis, nigris dein pezizoi-
deo-apertis obliteratisque, disco fusco-pallescente.

Hab. ad petiolos Caricæ Papayæ in ins. Madeira. — In ma-
cula lata determinata eximie gregaria et sæpius concentrice dis-
posita.

9. **Excipula sphæroides** (Pers.) Fr. Syst. Myc. II. p. 191 (sect. *Ce-* 3528
nangii), *Xyloma sphæroides* Pers. Syn. p. 106, *Phlyctidium sphæ-*
roides (Pers.) Wallr. Fl. cr. n. 2322. — Peritheciis innato-super-
ficialibus hypophyllis, punctiformibus atris depresso-urceolaribus,
margine inflexo, disco pallido.

Hab. ad folia decidua et putrescentia Salicis capræ in
Germania, Gallia. — Vilis et dubia species, teste Wallroth.

10. **Excipula ulmicola** Schw. Syn. Amer. bor. n. 2126. — In pagina 3529
superiore efficit maculas inderminatas late expansas, in ambitu sub-
effiguratas cinerescentes, fusco-marginatas, margine fusco lato;
his copiose immersa sunt perithecia, excipuloidea, punctiformia,
nigra, centro depresso et quasi cinerescente.

Hab. rarior in foliis dejectis Ulmi fulvæ, Bethlehem Ame-
ricæ borealis.

11. **Excipula viticola** Schw. Syn. Amer. bor. n. 2125. — Minutissi- 3530
ma, punctiformis, sparsa, aterrima, demum fere omnino aperta,
disco candido.

Hab. rarior in foliis *Vitis æstivalis*, pagina aversa, Bethlehem Amer. bor.

12. **Excipula glandicola** Schw. Syn. Amer. bor. n. 2124. — Nuda, 3531
superficialiter adnata, orbiculata, aggregata et interdum confluens;
peritheciis singulis applanatis in ambitu manifestim marginatis,
atrontentibus plicatis; ore centrali subelevato, pezizoideo-aperto,
rotundo.

Hab. rarior ad basin glandium quercinarum putrescentium, Bethlehem Amer. bor.

13. **Excipula nitidula** Schw. Syn. Amer. bor. n. 2127. — Sparsa, mi- 3532
nuta, superficialis; peritheciis subglobosis, nigris, glabriusculis,
extus nitidulis; disco concavo, exalbido, non turgido.

Hab. in ligno *Liriodendri Tulipiferæ* ætate cinerescente denudato, Bethlehem Amer. bor.

14. **Excipula epidermidis** Schw. Syn. Amer. bor. n. 2121. — Innato- 3533
erumpens, demum libera; peritheciis cupuliformibus, minutis, spar-
sis, extus nigris, rugosis, margine sublacerato, orbiculato-subro-
tundo; disco subaperto, luteo-pallido; minuta.

Hab. in epidermide secedenti *Spirææ opulifoliæ*, Bethlehem Amer. bor., raro.

15. **Excipula Strobi** (Pers.) Fr. S. M. II. p. 190, *Peziza Pini-Strobi* 3534
Pers. Myc. eur. I. p. 326. — Peritheciis cupuliformibus profunde
excavatis erumpentibus, minutis, opacis, nigris.

Hab. in ramis *Pini Strobi* in Germania.

16. **Excipula Empetri** Fr. Syst. Myc. II. p. 190. — Peritheciis erum- 3535
penti-superficialibus epiphyllis punctiformibus, opacis atris, demum
in discum atrum hiantibus.

Hab. ad folia *Empetri* in Germania et Suecia. — Primo con-
vexo-conica, dein cylindrica, demum obovato-cylindrica, levis,
hieme aperta margine inflexo.

17. **Excipula nervisequia** (Pers.) Fr. Elench. II. p. 147. *Peziza ner-* 3536
visequia Pers. Myc. eur. I. p. 308. — Peritheciis sphaericis atris,
demum cupulæformibus, innatis nervo foliorum in filum nigrum de-
mum liberatum abeunti.

Hab. in foliis languidis *Plantaginis lanceolatæ* in Ger-
mania, Gallia, Italia. — Marcescentibus foliis *Plantaginis lan-*
ceolatæ, nervi, subinde et venæ, turgescere et nigri evadere in-
cipiunt, folio vero adhuc exclusa, e quibus erumpunt perithecia
subsphaerica, inequalia, astoma, opaca, atra, puncto non majora;
dein et nervi erumpunt sistentes illud «subiculum induratum li-

neare» in quo perithecia seriata, cujus mentionem fecit Persoon l. c.; tandem vero prorsus liberantur sistuntque filum prorsus rhizomorphaeum, simplex. «Cum hucusque specimina sterilia observare contigerit, nil certi de hac specie abnormi statuere licet.»

18. **Excipula Stellariae** Lasch in Flora 1849, p. 86, Bot. Zeit. 1849, 3537 p. 294. — Erumpens, ruguloso-fibrillosa, margine inflexo subplicato, disco oblongo, luteo-pallescente.

Hab. in caulibus *Stellariae* gramineæ pr. Driesen Germaniæ.

19. **Excipula Galii** Lasch in Kl. Herb. myc. n. 678, Bot. Zeit. 1845, 3538 p. 68. Fuck. Symb. myc. p. 401 et App. — Erumpens, elliptica v. oblonga rugulosa, atra, disco albido.

Hab. in caulibus emortuis *Galii Molluginis* et *G. silvatici* pr. Driesen Germaniæ et in Rhenogovia. — Sec. Fuck. asci nondum maturi observati; verisimillime tamen est discoomyces.

20. **Excipula levigata** Fr. Elench. II. p. 148. *Peziza levigata* Fr. 3539 S. M. II. p. 153. *Heterosphaeria levigata* Fr. Summa p. 365. — Innata, orbicularis, tenuis, levis, atra, margine tenui, sparsa vel gregaria, cauli adpressa, junior sphaeriformis, dein applanata subdifformis, integerrima.

Hab. in caulibus herbarum, e. g. *Verbasci Thapsi* in Gallia, Suecia.

21. **Excipula integerrima** Fr. S. M. II. p. 596. — Orbicularis, tumida, nigra, disco aperto lutescente. 3540

Hab. in caulibus in Suecia.

22. **Excipula Liliorum** (Schw.) Fr. S. M. II. p. 597. *Xyloma Liliorum* Schw. Carol. n. 261. — Innata, oblonga, subdifformis, atro-nitens, orificio centrali pezizoideo. 3541

Hab. in caulibus *Hemerocallidis* etc. in America boreali. — Tenuis, 1-3 lin. longa. Abit ad *Leptostromata*.

23. **Excipula majuscula** Schw. Syn. Amer. bor. n. 2123. — Epidermide tecta, insidens fibrillulis indistinctis repentibus vix radiantibus, lineas longa, ovato-acuminata, confluens, nigra; in centro depressa, demum ore rotundo aperta. 3542

Hab. in caulibus dejectis *Collinsoniæ*, Bethlehem Americae borealis. — Affinis *E. rumicincolæ*.

24. **Excipula rumicincola** Schw. Syn. Amer. bor. n. 2122. — Epidermide plerumque tecta, imposita fibrillulis radiantibus, oblonga, utrinque acuminata, nigra; centro ore elevato aperto rotundo aut orbiculato. 3543

Hab. in caulibus emortuis Rumicis verticillati, Bethle-
hem Amer. bor.

25. **Excipula Typhæ** Lasch in Kl. Herb. myc. n. 677, Bot. Zeit. 1845, 3544
p. 67. — Subrotunda vel oblonga, innata, nigra e plano conca-
va, ore integerrimo.

Hab. in foliis Typhæ latifoliæ pr. Driesen Germaniæ.

26. **Excipula aspera** Fr. S. M. II. p. 597, Sacc. Mich. II. p. 83. — 3545
Peritheciis excipuliformibus, sphaericis, costatis, margine setulis
conglutinatis asperulis, ore subconnivente; disco ex paraphysibus
filiformibus constante; ascis nullis v. immaturis.

Hab. in basi caulium Osmundæ regalis in Vogesis et in
Belgio. — «Probabiliter *Trichopezizæ* species ex vicinia *T. Ple-
ridis* (A. S.)».

IV. *Species nomine tantum mihi cognite.*

27. **Excipula Fagi** Kirchn. Lotos 1856, p. 204. — In Bohemia me- 3546
ridionali.
28. **Excipula Gallarum** Kirchn. Lotos 1856, p. 204. — In Bohemia 3547
meridionali.
29. **Excipula Impatientis** Kirchn. Lotos 1856, p. 204. — In Bohe- 3548
mia meridionali.
30. **Excipula patelliformis** Kirchn. Lotos 1856, p. 204. — In Bohe- 3549
mia meridionali.

HETEROPATELLA Fuck. Symb. myc. App. II. p. 54 (Etym. *heteros*
diversus v. spurius, et *patella*). — Perithecia sessilia, ventricosa,
ore contracto, laciniato, coriacea; discus concavus, carnosus, dis-
color. Sporulæ in sporophorum ramosorum apicibus, pedicella-
tæ, fusiformes, simplices, apice longe appendiculatæ, hyalinae.

1. **Heteropatella lacera** Fuck. Symb. App. II. p. 54 fig. 31. — Pe- 3550
ritheciis superficialibus, laxè gregariis sparsisve, $\frac{1}{2}$ -1 mill. latis,
ventricosis, levibus, glaberrimis, atro-fuscis, coriaceis, ore contra-
cto, in lacinias plerumque 6, subregulares, triangulares, patentes,
parum pallidiores dehiscentibus, disco concavo, carnosus, sordido,
siccis clausis; sporophoris densissime verticaliter dispositis, ramo-
sis, apice sporulas solitarias gerentibus; sporulis fusiformibus, cur-
vatis, continuis multiguttulatis, hyalinis, pedicellatis, $26 \approx 4$ apice
appendiculo longo, filiformi, curvato, 26-30 μ . longo, pedicello ple-
rumque 16 μ . longo abrupte insertis.

Hab. in caulibus siccis putridis Linariæ vulgaris pr. Æ-

strich Rhenogoviæ. — f. **umbilicata** (Pers. sub *Peziza*) Sacc. Mich. II. p. 116: sporulis $25 \approx 3$, utrinque cuspidatis, falcatis, in basidio tereti subramoso pleurogenis. In caulibus *Gentianæ* in Vogesis. — f. **Linariæ** (*Peziza Linariæ* Rabh.). In caulibus *Linariæ* in Gallia. — f. **Dauci**. In ejusdem caulibus in Gallia.

2. **Heteropatella palustris** (Brun.) Sacc. in Mich. II. p. 630, *Heterosphaeria palustris* Brunaud in Roum. Rev. Mycol. — Peritheciis globoso-depressis, astomis, dein ample umbilicatis, atronitidulis, $\frac{1}{2}$ - $\frac{3}{4}$ mill. diam., contextu parenchymatico solidiusculo; basidiis filiformibus fasciculatis $20-30 \approx 1$, breve ramulosis; sporulis fusoideis curvulis utrinque acutiusculis, biguttulatis, $8-10 \approx 1,5-2$, hyalinis.

Hab. in caulibus siccis *Euphorbiæ palustris* in Gallia prope Saintes (BRUNAUD).

DOTHICHIZA Lib. in Herb. Roum. et Speg. Reliq. Lib. I. n. 627. (Etym. a *Dothidea*, ad quam habitu interdum accedit). — Perithecia erumpentia subrotunda, discreta primo clausa, demum irregulariter deliscentia, subcupulata. Sporulæ oblongæ vel tereiusculæ, continuæ, hyalinæ. — Facillime hoc genus sistit spermogonium *Cenangiorum*.

1. **Dothichiza Padi** Sacc. et Roum. Misc. mycol. F. Gall. n. 2251. — Peritheciis subsuperficialibus, gregariis, applanatis, dein pezizoideo-depressis, atris, subcoriaceis, $\frac{1}{3}$ - $\frac{1}{2}$ mill. diam.; sporulis oblongis, $6 \approx 1$, hyalinis, basidiis varie ramosis cylindræis 4-6-plo longioribus suffultis.

Hab. in ramis corticatis *Pruni Padi*, Malmedy in Arduennis (LIBERT). — Verisimiliter status spermogonicus *Cenangii Padi* Fr.

2. **Dothichiza Sorbi** Lib. in Roum. et Speg. Reliq. Lib. I. 627. *Micropora Sorbi* Thüm. in Hedwigia. — Peritheciis numerosis, dense gregariis sed semper solitariis et nunquam confluentibus, sub epidermide nidulantibus, applanatis, erumpentibus, orbiculatis vel oblongis, primo clausis demum epidermide disrumpente regulariter cinctis hiantibusque, nigris; sporulis cylindricis, subrectis vel arcuatis, utrinque subtruncatis, simplicibus, enucleatis, hyalinis, $3-4 \approx 1-1,5$.

Hab. in cortice *Sorbi Aucupariæ* prope Malmedy in Arduennis.

3. **Dothichiza Passeriniana** Sacc. et Roum. Reliq. myc. Lib. IV. n. 119. — Peritheciis cæspitose-erumpentibus, collabascendo scutel-

latis, atris, $\frac{1}{4}$ mill. diam.; sporulis cylindraceis, curvulis, 8-10 \approx 2-2,5, hyalinis; basidiis (paraphysibus?) filiformibus, septatis, hyalinis, 40-50 \approx 2.

Hab. in cortice ramorum Rhamni Alaterni pr. Malmedy in Arduennis.

4. **Dothichiza populea** Sacc. et Br. — Peritheciis laxè gregariis, epidermide velatis, dein erumpentibus, subcoriaceis, atris, globoso-depressis $\frac{3}{4}$ -1 mill. diam., mox irregulariter hiantibus et cupulari-apertis; sporulis globoso-ellipsoideis, subinde minute apiculatis, 10-12 \approx 8-10, hyalinis; basidiis..... non observatis.

Hab. in ramis emortuis Populi pr. Troyes Galliæ.

5. **Dothichiza populina** Sacc. *Cenangii populini* spermogonium Fuck. 3556
Symb. p. 268. — Peritheciis erumpentibus, gregariis, numerosis, minutis, orbicularibus, atris, vegetis apertis, disco fuliginoso, margine elevato, aspero, atro cinctis, siccis plerumque rima longitudinali, simplici subclausis; sporulis ovatis, numerosis, minutis, hyalinis, 8 \approx 3.

Hab. in ramis corticatis Populi tremulæ et P. pyramidalis in Rhenogovia.

6. **Dothichiza ferruginosa** Sacc. *Cenangii ferruginosi* spermogonium 3557
Fuck. Symb. p. 269. — Peritheciis gregariis, erumpentibus, minutis, substipitatis, orbicularibus, planis umbilicatisque, nigris, primo clausis, demum laceratis; sporulis ovato-oblongis, continuis, hyalinis, 8 \approx 4.

Hab. in ramis corticatis Pini silvestris in Rhenogovia.

LEMALIS Fr. Summa p. 360, non Mont. Ann. Sc. nat. 1840 p. 207 (Etym. *leme* lippitudo). — Perithecia seu receptacula cupulata v. suburceolata, carnosula v. membranacea, marginata, cinereo-purpurascens v. aurea. Sporulæ globulosæ v. oblongæ. — Ad *Netrioideas* accedit.

1. **Lemalis Alismatis** (Pers.) Fr. l. c. *Peziza Alismatis* Pers. Myc. 3558
eur. I. p. 301. — Minuta, glabra, sessilis, carnosula ex cinereo subpurpurascens; peritheciis cupulatis, depressis, margine subcomplanatis; disco passim pulvere rubello tecto; sporulis.....

Hab. in caulibus siccis Alismatis Plantaginis præteriti anni, in aqua adhuc persistentibus, in Germania et Scandinavia.

2. **Lemalis aurea** (Lév.) Sacc. *Catinula aurea* Lév. Ann. Sc. nat. 1848, 3559
p. 248. — Peritheciis sparsis v. gregariis cylindraceo-urceolatis,

subminutis, membranaceis, aureis late marginato-apertis; sporulis globosis, concoloribus; basidiis parallelis.

Hab. ad truncos vetustos Pinorum pr. Paris et in Gallia meridionali. — Fungillus exsiccatione habitum *Calloriæ chrysocommæ* sumit. — An ergo ad *Nectrioideas* referenda species? An *Godroniellæ* affinior?

CATINULA Lév. Ann. Sc. nat. 1848, p. 247 (Etym. *catinus* ob formam peritheci). — Perithecia globoso-ovata v. teretiuscula, membranaceo-coriacea, atra, solidiuscula vel madore carnosula, apice ore lato hiantia, disco concaviusculo, sæpe læticolore. Sporulæ globosæ v. oblongæ continuæ, subhyalinæ. — Species tenuiores forte cum gen. *Godrionella* aptius conveniunt.

1. **Catinula turgida** (Fr.) Desm. Exs. n. 1818, 20 Not. p. 20, Sacc. 3560 Mich. II. p. 573. *Excipula turgida* Fr. S. M. II. p. 189, *Tympanis turgida* (Fr.) Wallr. Fl. cr. p. 424. — Peritheciis teretibus-obconicis, subinde compressis, gregariis, nigris, ore amplo apertis, solidiusculis, nitide marginatis, contextu parallele celluloso, olivaceo-fusco, disco griseo; sporulis oblongo-ellipsoideis, utrinque rotundatis, 18-20 \approx 8-9 guttatis, hyalinis v. flavidulis; basidiis teretiusculis, 16-18 \approx 3-4, hyalinis.

Hab. in ramis corticatis Coryli Avellanæ in Gallia, Fennia, Germania, Italia et America bor. — Sistit pycnidium *Cenangii Coryli* Corda.

2. **Catinula Mangiferæ** (Mont.) Sacc. *Lemalis Mangiferæ* Mont. Cent. 3561 II. n. 20, in Ann. Sc. nat. 1840, p. 207. — Epi-rarissime hypophylla, gregaria, erumpens; receptaculo cylindrico crasso aut basi incrassata ventricoso, coriaceo, cinerescente, disco terminali concaviusculo, humido plicato-rugoso pulverulento-nigro; ascis nullis; sporulis (quorum morphosis adhuc latet) nudis fusiformi-acuminatis.

Hab. in foliis vivis Mangiferæ in Guyana (LEPRIEUR).

3. **Catinula melaleuca** Lév. Ann. Sc. nat. 1848, p. 248. — Peritheciis gregariis, minutis, subcorneis, globoso-conicis, levibus, nigris ore constrictis, madore late apertis, intus albis; sporulis ovoideis continuis, subhyalinis.

Hab. in truncis decorticatis Juglandis regiæ prope Parisios Galliæ.

4. **Catinula leucophthalma** Lév. Ann. Sc. nat. 1848, p. 248. — Peri- 3563

theciis inter fibras lignosas erumpentibus sessilibus cupulatis, cornis, nigris, late apertis; sporulis globulosis, hyalinis.

Hab. ad ramos decorticatos in silva Boulogne prope Parisios Gallia.

DISCULA Sacc. (Etym. a *Discella*, cui analogum genus), *Discella* Auct. p. p. — Perithecia disciformi-patellata, sæpe imperfecta et veluti e matrice mutatâ formata, epidermide, sæpe demum laciniatim fissa, velata. Sporulæ ellipsoideæ, oblongæ v. teretiusculæ, continuæ, hyalinæ, — Species aliquæ hinc *Oncosporæ*, illinc *Pleococco* propinquæ.

I. *Ramicolæ in Dicotyledoneis arboreis.*

1. **Discula Platani** (Peck) Sacc. *Discella Platani* Peck Rep. on the 3564
St. Mus. N. Y. *Discella Platani* Oud. Aanw. 1876-77, p. 9. — Pustulis minutis; peritheciis erumpentibus, pallidis; sporulis subellipsoideis v. oblongis, levibus, deciduis, hyalinis, 8-14 \approx 3,5-6.

Hab. in ramis Platani occidentalis, Bethlehem Americæ borealis, et Platani orientalis prope Amsterdam in Hollandia (Oudemans). — Basidia raro sporulis adhærentia manent, nec ita granulosa ut in *D. platyspora*. — Species Oudemansii ab illa Peckii non diversa videtur.

2. **Discula platyspora** (B. et Br.) Sacc. *Discella platyspora* B. et 3565
Br. Ann. N. H. n. 428. — Peritheciis minutis, superne deficientibus, pustulas tumidulas formantibus; sporulis oblongis, obtusis, continuis, granulosis, 30-35 \approx 12; basidiis brevibus, obtusis, simplicibus, interdum cum sporula decedentibus.

Hab. in ramis emortuis Platani, Batheaston Britannia. — Plasma granulosum ita efficit, ut primo obtutu episporium quoque extus granulosum videatur.

3. **Discula Magnoliæ** (B. et C.) Sacc. *Discella Magnoliæ* B. et C. 3566
North Amer. Fungi n. 468. — Pustulis sparsis cuticula tectis, apice tantum nudis; sporulis oblongis, 7-8 \approx 2, basidiis sporulam æquantibus.

Hab. in ramis Magnoliæ cordatæ in montibus Virginiae Americæ borealis.

4. **Discula microspora** (B. et C.) Sacc. *Discella microspora* B. et C. 3567
North Amer. Fungi n. 470. — Pustulis parvis elongatis depressis cuticula tectis dein medio erumpentibus; sporulis brevibus subellipticis, 7-8 \approx 3-3,3.

Hab. in ramis *Ceanothi americanæ* in Pensylvania (MICHENER).

5. **Discula quercina** (Cooke) Sacc. *Discella quercina* Cooke, Grev. 3568
XII, p. 23. — Sparsa, discoidea, primo cortice tecta, demum laciniatim erumpens, disco atro; sporulis elongato-ellipticis, hyalinis, 15 \approx 4.

Hab. in cortice *Quercus aquaticæ* in Carolina inferiore Americæ borealis.

6. **Discula Citri** (Cooke) Sacc. *Discella Citri* Cooke Grev. XII. p. 23. 3569
— Sparsa, rotundata, elliptica vel elongata, fusca, primo epidermide tecta demum lacerata; sporulis elongato-ellipticis, 16-17 \approx 4,5, hyalinis.

Hab. in ramis *Citri* in Carolina infer. Amer. bor.

7. **Discula macrosperma** (Peck) Sacc. *Discella macrosperma* Peck 3570
Rep. on the St. Mus. N. J. — Peritheciis obsoletis; sporulis oblongis, rectis curvulisve, interdum uno apice attenuatis, hyalinis, 34-40 \approx 10, intus granulosis.

Hab. in cortice emortuo *Salicis*, North Greenbush Americæ borealis.

8. **Discula microsperma** (B. et Br.) Sacc. *Discella microsperma* B. 3571
et Br. Ann. N. H. n. 429, t. 12, f. 8, e. — Peritheciis nigris, sub vitro pallidioribus centro sæpe apertis; sporulis minutis, oblongis, continuis, dein sæpe expulsis.

Hab. in ramis emortuis *Salicis* in Britannia, Belgio et Germania. — A *Discella carbonacea*, cui affinis, differt in primis sporulis multoties minoribus et continuis pustulisque sæpe majoribus.

9. **Discula rugosa** (B. et C.) Sacc. *Discella rugosa* B. et C. North 3572
Amer. Fungi n. 467. — Pustulis sparsis curvulis subhysteriiformibus leniter curvis et hinc inde ostiolis prominulis punctatis; sporulis oblongis utrinque attenuatis, 12-14 μ . longis, endochrome utrinque retracto, basidiis sporulam æquantibus.

Hab. in ramis *Aceris rubri* in Pensylvania (MICHENER).

10. **Discula obscura** (B. et C.) Sacc. *Discella obscura* B. et C. North 3573
Amer. Fungi n. 469. — Pustulis minutis irregularibus depressis, sparsis fuscis, epidermide pellucida tectis; sporulis oblongis, 8-15 \approx 3.

Hab. in ramis *Aceris striati*, Massachusetts Amer. bor.

11. **Discula Peckiana** Sacc. *Discella discoidea* C. et Peck Rep. on 3574
the St. Mus. New York, t. 1, fig. 34-37. — Erumpens, discoidea, madore rubescens, uda nigra vel nigricans, epidermide stellato-

fissâ cincta; peritheciis supra deficientibus; sporulis copiosis, oblongis vel ellipsoideis, hyalinis, 20-30 μ . longis, intus granulosis; basidiis longis, furcatis vel simplicibus, sursum clavulatis.

Hab. in ramis emortuis Carpini americanæ, Greenbush Americæ borealis.

12. **Discula Kalmiæ** (Peck) Sacc. *Discella Kalmiæ* Peck Rep. on the 3575
St. Mus. N. Y. — Pustulis minutis erumpentibus, denique nigricantibus; peritheciis superne deficientibus et subinde excipuliformibus; sporulis oblongo-obovatis, interdum curvulis, hyalinis, 10-15 μ . longis.

Hab. in ramis Kalmiæ angustifoliæ, Sandlake Amer. bor.

13. **Discula lignicola** (C.) Sacc. *Discella lignicola* Cooke in Grevil- 3576
lea. — Sparsa, erumpens; peritheciis punctiformibus, atris, demum apertis; disco fuligineo; sporulis cylindræis, hyalinis, 20 \approx 3,5.

Hab. in ligno denudato, Dunedin Australiæ.

14. **Discula variabilis** (Ell.) Sacc. *Discella variabilis* Ell. Bot. Amer. 3577
Gaz. — Peritheciis orbiculari-oblongis vel hysteroideis, nigris, irregulariter laciniatim hiantibus discumque pallidum v. nigricantem revelantibus; sporulis ellipsoideo-oblongis, hyalinis, 7-10 \approx 4.

Hab. in ligno decorticato, Vermont Amer. bor. (C. G. PRINGLE). — Habitus nunc *Phacidii*, nunc *Hysterii*. Perithecia sæpe inter fibras ligneas nidulantia.

II. Caulicolæ et fructigenæ.

15. **Discula olivacea** (C. et H.) Sacc. *Discella olivacea* C. et Harkn. 3578
in Grev. 1880 p. 6. — Sparsa, atro-olivacea, cupuliformis, $\frac{1}{2}$ mill. diam.; sporulis ellipticis, utrinque subattenuatis, olivaceis, integris, 14 \approx 7.

Hab. in caule Urticæ (?) in California Amer. bor. — «An *Myrothecium?*».

16. **Discula Darlingtoniæ** (Thüm.) Sacc. *Discella Darlingtoniæ* Thüm. 3579
F. Lusitan. n. 318. — Peritheciis dense gregariis, superficiali-insidentibus, disciformi-depressis, minutis, opaco-atris, cito expallescens; sporulis numerosis, cylindrico-ellipsoideis, utrinque rotundatis, simplicibus, intus homogæneo-grumulosis, 16-18 \approx 6-7 pellucidis, hyalinis; basidiis brevibus, subrectis, hyalinis.

Hab. in ramulis emortuis Darlingtoniæ glomeratæ in horto botanico, Coimbra Lusitaniæ (MOLLER).

17. **Discula effusa** (B. et Br.) Sacc. *Discella effusa* B. et Br. North 3580

Am. Fungi n. 466. — Pustulis punctiformibus stratum nigrum efformantibus; sporulis oblongis, angustis, $20 \approx 4$, enucleatis.

Hab. in fructibus putrescentibus Piri et Mali in Pennsylvania.

18. **Discula Leguminum** (C.) Sacc. *Discella leguminum* Cooke in 3581
Rav. Fung. Amer. n. 152. — Pustulis punctiformibus, demum confluentibus, in maculis irregularibus dispositis; sporulis ellipticis, hyalinis, utrinque obtusis, $12-15 \approx 6$.

Hab. in leguminibus Prosopidis, Galveston, Texas Amer. bor.
— An potius *Gleosporium*?

19. **Discula tenuispora** (C. et H.) Sacc. *Discella tenuispora* Cooke 3582
et Harkn. in Grev. 1880, p. 6. — Sparsa, atro-viridis, punctiformis, applanata, margine leniter elevato, $\frac{1}{4}-\frac{1}{3}$ mill. diam.; sporulis rectis, cylindræis, obtusis, hyalinis, $20 \approx 2,5$.

Hab. in calamis Junci in California Amer. bor.

III. In Monocotyledoneis.

20. **Discula anomala** (C.) Sacc. *Discella anomala* Cooke in Grevil- 3583
lea. — Pustulis sparsis, orbicularibus, atris, epidermide tectis; sporulis fusiformibus, endochromate bipartito, hyalinis, $70 \approx 10$.

Hab. in foliis Yuccæ Draconis, New Jersey Amer. bor. — Habitus *Discellæ*, sporulæ vero facie *Bactridii*. «An potius *Stagonosporæ macrosporæ* (D. et M.) Sacc. affinium?».

SPORONEMA Desm. XIV. Not. p. 182 (1847) (Etym. *spora* et *nema* fium seu basidium), *Clinterium* Fr. Summa pag. 418 (1849). — Perithecia epidermide tecta, dein erumpentia, initio clausa dein a centro versus ambitum in lacinias plures dehiscencia. Nucleus discoideus molliusculus, sæpe discolor. Sporulæ ovoideæ v. cylindrææ, hyalinæ, continuæ. Basidia filiformia, sæpius ramosa. — Videretur *Phacidium* basidiosporum.

1. **Sporonema phacidioides** Desm. Ann. Sc. nat. 1847, VIII. p. 182. — 3584
Peritheciis copiosis, minutis, subrotundis, applanatis, atro-brunneis, in lacinias 4-5 inæquales, obtusas mox dehiscens; disco planiusculo, cinnamomeo; sporulis ovoideo-oblongis, 5 μ . longis binucleatis.

Hab. in foliis Medicaginis maculatæ in Gallia et Britannia.

2. **Sporonema hiemale** Desm. 19 Not. p. 25. — Hypophyllum, minutum, 3585
sparsum vel laxe gregarium, rotundatum aut oblongum, in lacinias 2-5 irregulares (epidermicas) dehiscens; disco convexo pallido vel

argillaceo; basidiis simplicibus vel dichotomis, septatis, in catenas sporularum abeuntibus; sporulis numerosissimis, hyalinis, rectis, suboblongis, truncatis, $6 \approx 2$.

Hab. in foliis semiputridis *Quercus* in Gallia.

3. **Sporonema provinciale** Mont. VIII. Cent. pl. Cell. p. 304. — Pe- 3586
 ritheciis amphigenis, gregariis, punctiformibus, sinuato-subrotundis, deplanatis, atris, madidis convexis, siccitate cupulari-collapsis, irregulariter radiatim dehiscentibus; sporulis lineari-oblongis, rectis, $5 \approx 1$, hyalinis; basidiis erectis, fasciculatis, $40 \approx 5$, e basi œdematosa ramosissimis, ramis filiformibus, 1 μ . cr.

Hab. in foliis emortuis delapsisque *Mespili germanicæ* in Gallo-provincia (CASTAGNE).

4. **Sporonema Guepinii** (Mont.) Sacc. *Clinterium Guepinii* Mont. Pl. 3587
 Cell. Cent. VIII. p. 306. — Peritheciis amphigenis erumpenti-liberatis, fusco-brunneis, dein collapsis, subcupularibus, centro mammillatis, madidis hemisphærico-complanatis, umbonatis, tandem rimose dehiscentibus; nucleo hyalino; sporulis fusoides, $10 \approx 3$; basidiis tenuissimis, ramosis, centrum versus convergentibus, 15 μ . longis.

Hab. in foliis *Nymphææ* pr. Angers Galliæ (GUEPIN).

5. **Sporonema obturatum** (Fr.) Sacc. *Clinterium obturatum* Fr. Sum- 3588
 ma Veg. p. 418, *Sphæria obturata* Fr. S. M. II. pag. 495, Curr. Simpl. Sphær. p. 341. — Peritheciis erumpentibus, subliberis, planis, ovoideis, nigris, dein collapsis, rimoso-dehiscentibus; sporulis curvulis, hyalinis, 10 μ . longis.

Hab. in ramis *Arbuti* in Suecia. — Var. **epiphyllum** peritheciis subrotundis. In foliis *Vaccinii Oxicoeci* et *Ericæ* in Suecia et Britannia. — Perithecia subinde stipitelli rudimento instructa; ostiolum prominens, nullum, sed in rimas minimas dehiscens, unde affinitas, quoad habitum, cum *Phacidiis*.

6. **Sporonema rameale** Desm. 19 Not. pag. 25. — Numerosum, dense 3589
 sparsum, epidermide tectum, minutissimum, rotundatum vel oblongum, in lacinas 3-4 inæquales (epidermicas?) dehiscens; disco albedo vel rufo, convexo; sporulis hyalinis, rectis, oblongo-cylindricis, obtusis, $10-15 \approx 2,5$, 2-3-guttulatis, globosis quandoque subopacis.

Hab. in ramis siccis *Sambuci nigræ* in Gallia.

7. **Sporonema strobilinum** Desm. 20 Not. pag. 14. *Phoma strobi-* 3590
lina Sacc. Mich. II. p. 97. — Peritheciis minutis, subglobosis, tenuissimis, atris, gregariis, quandoque confluentibus, in lacinas

(epidermicas?) plures, inæquales dehiscentibus; nucleo (vel disco) convexo, griseo, subopalino; sporulis numerosis, fusoideis, hyalinis, $10-15 \approx 3$; basidiis bacillaribus, subduplo longioribus.

Hab. in squamis strobilorum Abietis in Gallia et Germania. — «Sporulæ fusoideæ v. subclavulatæ, $15 \approx 2\frac{1}{2}$, hyalinæ, basidiis filiformibus, sæpius furcatis, $20 \approx 2\frac{1}{2}$ hyalinis suffultæ. — * **Ph. accedens** Sacc. Mich. II. p. 617. *Phoma strobilina* Peck et Clint. in Rep. on St. Mus. N. Y.: a typo differt sporulis paullo minoribus, nempe $8-11 \approx 2-2\frac{1}{2}$. In conis Abietis et Pini Strobi in America boreali et Gallia. — *Sphæria strobilina* Curr. Simpl. Sphær. p. 329 eadem res videtur.

8. **Sporonema Wallrothii** Mont. Pl. Cell. Cent. VIII. *Sph. hians* Wallr. 3591 Fl. crypt. n. 3742. — Peritheciis minutissimis sparsis, insculptis, nigris, vertice prominulis convexis, mox ostiolo irregulariter aperto hiantibus excipuliformibus cubiliaque exasperantibus; sporulis cylindræis, continuis rectis, 15μ . longis; basidiis undique centrum versus convergentibus, ramosis, $20-30 \mu$. longis.

Hab. ad pira immatura humi putrescentia in Thuringia.

PLEOCOCCUM Desm. et Mont. Ann. Sc. nat. 3. XI. p. 53 (Etym. *pleon* plus, et *coccum*). — Perithecia erumpentia, dimidiata, tenuiter membranacea, convexo-plana, atra, valvis 2-4 (sæpius ternis) siccitate conniventi-approximatis, madore discedentibus, dehiscentia. Nucleus mucilaginosus, opalinus, humore admoto, cito diffluens. Sporulæ ovoideo-oblongæ, hyalinæ. — A gen. *Sporonemate* vix diversum mihi videtur.

1. **Pleococcum Robergei** Desm. et Mont. Cent. VI. n. 44, et l. c., p. 3592 54. — Minutum, punctiforme, atro-nitens, in culmo foliisque decoloratis gregarium; sporulis innumeris, ovoideo-oblongis, hyalinis 5μ . longis; basidiis nullis v. obsoletis.

Hab. in culmo Juncorum variorum, foliisque siccis Graminum nec non Cyperacearum, imprimis Caricis arenariæ, Hermonville, Calvados (ROBERGE).

2. **Pleococcum pezizoideum** Cooke, Grev. XII. pag. 24. — Sparsum, 3593 atrum, cupuliforme, erumpens, margine subintegro, disco cinereo; sporulis linearibus, obtusis, hyalinis, $7 \approx 2$; basidiis subrectis, simplicibus.

Hab. in foliis Lathyri, S. Carolina Amer. bor.

PSILOSPORA Rabenh. Herb. Myc. et Hedw. I. p. 107 (Etym. *psilos* nudus, et *spora*, h. e. sine asco). — Perithecia innato-superficialia,

oblonga v. inæqualia, sub-bilabiata, atra, sæpius in cortice subvivente matricis dense gregaria, membranaceo-carbonacea. Sporulæ ellipsoideæ vel oblongæ, continuæ, subhyalinæ basidiis bacillaribus suffultæ. — Cfr. quoque *Stagonospora strobilina* (Curr.) Sacc. Syll. III. n. 2456 seu *Psilospora strobilina* Sacc. Syll. II. n. 771. — Pycnidium sistit *Dichæna*, quæ habitu simillima.

1. **Psilospora faginea** Rabh. Herb. Myc. II. p. 450 et Hedw. I. p. 3594 107 cum icone, *Hysterium* (Dichæna) *rugosum* f. *Fagi* Fr. Elench. II. p. 141 ex parte. — Peritheciis majusculis, erumpentibus, oblongis, demum in maculas rugosas effusas confluentibus; sporulis ellipsoideis, 18-20 \approx 14-15, hyalinis, sæpe guttatis; basidiis filiformibus, 50-60 \approx 2.

Hab. in cortice vegeto Fagi silvaticæ in Suecia, Germania, Gallia, Italia, Austria.

2. **Psilospora Quercus** Rabh. in Fuck. Symb. myc. p. 401. *Dichæna quercina* Fr. S. Veg. Sc. p. 402 ex parte. — Peritheciis quam in *P. faginea* paullo minoribus et planioribus; sporulis (?) oblongis, 22-25 \approx 8-10, 4-nucleatis, hyalinis.

Hab. in cortice vegeto levigato Quercus pedunculatæ, sessilifloræ, Suberis etc. in Gallia, Suecia, Germania, Italia, Lusitania. — Suspicio sporulas modo descriptas potius endosporas liberatas simillimæ *Dichæna quercinæ* sistere. Sporulas stipitatas enim, ut in *P. faginea*, numquam vidi.

AMEROSPORIUM Speg. F. Arg. Pug. IV. n. 306 (Etym. α priv., *meros* pars, appendix, et *spora*, quia sporulæ muticæ). — Perithecia (*Dinemasporii* v. *Polynematis* ad instar) subcupulata, setulosa. Sporulæ cylindræo-ellipticæ, muticæ. — Genus duobus modo citatis et *Heteropatellæ* Fuck. affine, a primis aristas sporularum deficientibus, ab ultimo setularum peritheciolorum præsentia recedens.

1. **Amerosporium polynematoides** Speg. F. Arg. Pug. IV. n. 306. — 3596 Peritheciis superficialibus, subhemisphærico-applanatis, 200-250 μ . diam., in sicco centro late cupulatis (an tantum umbilicatis?), margine crasso, obtuso, tadis convexis et disco diffluenti gelatinoso ornatis; contextu dense parenchymatico-elongatulo, atro-olivaceo; pilis rigidis, erectis, unicellularibus (an semper?), paucis, atris, basi vix incrassatis, apice acutiusculis et subhyalinis, 100-180 \approx 5-12 adpersis; sporulis elliptico-cylindræis, subclavulatis, sursum acutiusculis, deorsum obtusiusculis, utrinque minute 1-guttulatis, 12-15 \approx 2-3, hyalinis, muticis.

Hab. ad caules dejectos putrescentes Conii maculati, Bañado de San José de Flores in Argentina.

2. **Amerosporium phæotrichum** (Rab.) Sacc. *Excipula phæotricha* 3597
Rabenh. Bot. Zeit. 1857, pag. 405. — Gregarium, erumpens, demum fere libere enatum; peritheciis e globoso turbinatis fusco-atris, pilis rufo-fuscis vestitis, primo clausis, dein cupulato-dilatatis; sporulis minutis cylindræis, continuis.

Hab. ad caules emortuos Adenostyles albifrontis in montibus Sudetis.

3. **Amerosporium congregatum** (Cooke) Sacc. *Excipula congregata* 3598
Cooke in Grevillea. — Gregarium, plagulas atras in caulibus formans; peritheciis immersis, setulis erectis, nigricantibus, cuticulam perforantibus vestitis; sporulis linearibus, obtusis, curvulis.

Hab. in caule emortuo Euphorbiæ silvaticæ, Darenth Britannicæ.

4. **Amerosporium incurvum** (Cooke) Sacc. *Excipula incurva* Cooke 3599
in Grevillea. — Sparsum, atrum; peritheciis hemisphæricis, nitidis, margine valde incurvo, disco livido-griseo, extus pilis rigidis, elongatis, densissimis obsitis; sporulis cylindræis, curvulis, utrinque obtusis, hyalinis, 2-4-nucleatis, 18 μ . longis.

Hab. in caulibus herbaceis, New York Amer. bor. (GERARD).

5. **Amerosporium Duricæi** (Mont.) Sacc. *Excipula Duricæi* Mont. Cent. 3600
VI. n. 89, in Ann., 3, IV. p. 359, et Syll. Crypt. n. 899, *Vermicularia Duricæi* Mont. Fl. Alg. — Gregarium, libere enatum; peritheciis minutis globosis, astomis, cupulato-depressis, pilis concoloribus atris divergentibus a basi ad medium, raro, nisi in junioribus, ad apicem vestitis; nucleo fuliginoso; sporophoris ramosis tenuissimis; sporulis cylindricis myriadeis 2-4-guttulatis, 12,5 \approx 2,5.

Hab. in caulibus herbarum, La Calle Algeriæ (DURICÆU).

6. **Amerosporium punctiforme** (Berk.) Sacc. *Excipula punctiformis* 3601
Berk. North Am. Fungi n. 456. — Punctiforme superficiale, hispidum; sporulis curvis, fortiter apiculatis, latiusculis, enucleatis.

Hab. in ramis emortuis Sarothamni v. Spartii (*corn-broom*) in Carolina infer.

7. **Amerosporium macrotrichum** (B. et Br.) Sacc. *Excipula macrotricha* B. et Br. Ann. N. H, n. 444. — Peritheciis majusculis, grosse setosis; setulis longis, rectis, bitunicatis, tunica interiore ab exteriori facile secedente; sporulis minutis, lunulatis.

Hab. in ramis Ulicis in Britannia.

8. **Amerosporium microsporum** (C. et Ell.) Sacc. *Excipula microspo-* 3603

- ra* C. et E. Fung. New Jersey, in Grevillea t. 95. f. 18. — Sparsum, atrum; peritheciis superficialibus, siccis, globosis, udis demum arcte apertis, hemisphæricis, sursum levibus, deorsum pilis rigidis obsitis, disco livido; sporulis allantoideis, hyalinis, minutis, 8 μ . lg.
Hab. in ligno Caryæ et Ilicis, New Jersey Amer. bor.
9. **Amerosporium chætostroma** (B. et Br.) Sacc. *Excipula chætostroma* B. et Br. Ann. N. H. n. 445, t. XI, f. 2. — Gregarium minutum, convexum, cinereo-nigrum, disco setulis longis, continuis, penetrantibus asperulo; sporulis lunato-fusoideis, utrinque acutis, pallidis, plasmate granuloso, chlorino; basidiis longiuseculis fasciculatis v. connatis. 3604
Hab. in ramis emortuis Fraxini, Somerset Britannicæ.
10. **Amerosporium applanatum** (B. et C.) Sacc. *Excipula applanata* Berk. et Curt. Exot. Fungi p. 281. — Applanatum, strigosum; disco pallido; sporulis minutis, oblongis, brevibus, curvatis, 6-7 μ . long. 3605
Hab. in corticibus, Surinam.
11. **Amerosporium corvinum** (Pers.) Sacc. *Excipula corvina* (Pers.) Fr. Summa Veg. p. 403, *Peziza corvina* Pers. Myc. eur. I. p. 248. — Suberumpens, utrinque atra, subdepressa, externe pilosa. 3606
Hab. ad ramos et ligna in Germania. — Pusilla late aperta; subiculum in aliquibus adest maculiforme, pariter nigrum. — Dubia, quia fructificatio latet.
12. **Amerosporium leucotrichum** (Peck) Sacc. *Excipula leucotricha* Peck Rep. on the St. Mus. New York. — Peritheciis minutis sparsis, disco plano v. leniter convexo, orbiculari, elliptico v. elongato, nigro, setis longiusculis, septatis, hyalinis marginato; sporulis fusoides, hyalinis, 7-10 μ . longis. 3607
Hab. in foliis emortuis graminum, West Albany Amer. bor. — Species setulis delicatis albidis distincta.
13. **Amerosporium Caricum** (Lib.) Sacc. *Excipula caricum* Lib. in Herb. (sub *Vermicularia*), Cooke in Grevill. — Sparsum, innatum, atrum; peritheciis sphæricis, pilis longissimis tectis, pezizoideo-apertis; sporulis fusiformibus, rectis, utrinque attenuatis. 3608
Hab. in foliis Caricum in Arduennis. — Minus quam *Dinemasporium graminum* et sporulæ non aristatæ, sec. Cooke.
14. **Amerosporium Equiseti** (Peck) Sacc. *Excipula Equiseti* Peck 26 Rep. p. 77. — Peritheciis minutis, sparsis, applanatis, nigris, setulis longiuseculis, rectis, nigricantibus vestitis; sporulis rectis, cylindræis, hyalinis, 7-10 μ . longis. 3609
Hab. in caule Equiseti, Buffalo Amer. bor. (CLINTON).

DINEMASPORIUM Lév. Ann. Sc. nat. 1846, p. 274. (Etym. *dis* bis, *nema* filum et *spora*), *Polynema* Fr. et Fuck., nec Lév. — Perithecia cupuliformia, superficialia, atra, setulis fuscis rigidulis conspersa. Sporulæ oblongæ vel allantoideæ, continuæ, hyalinæ, utrinque 1-aristatæ. Basidia bacillaria, rarius ramosa.

I. *Eu-Dinemasporium*.

Sporulæ utrinque 1-aristatæ.

1. **Dinemasporium graminum** Lév. Ann. Sc. nat. 1846, p. 274, *Excipula graminum* Berk. Corda Icon. III. f. 79. — Peritheciis sparsis, pilis simplicibus, atris, apice pallidioribus, 200-400 \approx 8-12, hirtis, subcupulatis, minutis; sporulis falcato-fusoideis, 15 \approx 2, 5-3, hyalinis, utrinque setulâ 15 μ . longâ obliquâ auctis.

Hab. in culmis foliisque languidis vel emortuis Arundinis, Andropogonis, Eutrianæ, aliorumque graminum et Caricum in Gallia, Italia, Britannia, Germania, Belgio, Amer. bor. et australi, India or., Cuba. Secundum auctores habetur forma sporulis 10-14 μ . tantum longis (Cuba et Amer. bor.), alia sporulis 15-20 μ . longis, ciliisque vero brevioribus (in Carolina). Sec. cl. Spegazzini species occurrit quoque in caule Medicaginis in Argentina; an vere identica? — β . **strigosulum** Karst. Hedw. 1884, p. 21: a typo recedit sporulis minoribus, 9-12 \approx 2-3, setulisque 6-8 μ . longis utrinque auctis. In culmis foliisque emortuis Secalis, Poæ, Phragmitis prope Mustiala Fennicæ.

2. **Dinemasporium strigosum** (Fr.) Sacc. Mich. II. p. 281, *Peziza strigosa* Fr. S. M. II. p. 103, *Vermicularia strigosa* Lib. Exs. n. 349? Peritheciis innato-sessilibus, applanatis, concavis, strigosis; disco pallido; sporulis fusoideo-falcatis, 25-30 \approx 3-4, utrinque acutis, guttulis, hyalinis, setulâ 4-5 μ . longâ utrinque auctis.

Hab. in foliis culmisque graminum in Germania, Italia, Gallia, Belgio, Cuba et Avan River. — β . **leptosporum** Sacc. Mich. II. p. 600: sporulis fusoideo-curvulis, 16-18 \approx 1½-2, utrinque breve setigeris, 4-nucleatis, hyalinis. In culmis graminum in Gallia.

3. **Dinemasporium rhodophæum** Speg. in Michelia I. p. 480. — Peritheciis cupuliformibus parenchymate immersis, disco superficiem non vel vix (humiditate) excedente, numquam tectis, laxè gregariis, subparallelis, macula nulla vel subnulla insidentibus, discoideis sel ob pressionem nervorum folii subquadratis, minutis, ¼-⅓ mill. diam.; excipuli contextu parenchymatico, fuligineo, margine aterrimo, nitente atque pilis brevissimis, 20-40 \approx 5, concolo-

ribus, unicellularibus, laxe ornato; disco amœne roseo vel roseo-aurantiaco; sporulis ellipticis, rectis, biguttulatis, $9 \approx 3$, hyalinis, utrinque setulâ rigidulâ subæquilongâ, rectâ auctis.

Hab. in foliis emortuis diu intemperiiis expositis Phragmitis communis in insula dicta Lido apud Venetias.

4. **Dinemasporium microsporum** Sacc. Misc. Myc. F. helv. n. 17. — 3613

Peritheciis sparsis, subsuperficialibus, subcupulatis, $\frac{1}{2}$ mill. diam., nigris, setulis rigidis, cuspidatis, 250-280 μ . longis, subcontinuis, atris obsessis; sporulis cylindraceutis, curvatis, 7-9 \approx 2-3, utrinque oblique 1-ciliatis, ciliis 10-12 μ . longis, hyalinis; basidiis fasciculatis filiformibus, 40 \approx 1-1,5.

Hab. in foliis emortuis Phragmitis ad lacum Neuchatel Helvetiæ (MORTIER). — Certe affine *D. decipienti*.

5. **Dinemasporium minimum** C. et Ell. in Grevillea. — Sparsum, exi- 3614

guum, atrum; pilis rigidis, septatis, erectis circ. 100 μ . longis; disco vix conspicuo; sporulis linearibus, curvulis, nucleatis, utrinque ciliatis, 20 \approx 4 (cum ciliis).

Hab. in foliis Andropogonis, New Jersey Amer. bor.

6. **Dinemasporium bicristatum** Cooke in Rav. Fung. Amer. n. 144 et 3615

in Grevillea. — Erumpens; peritheciis brunneo-atris, sparsis, pilis rigidulis obsitis; disco pallide cinereo; sporulis linearibus, brevibus, 12-14 μ . longis, hic 2-ciliatis, hinc 1-ciliatis.

Hab. in Zea Mays, Aiken Carolinae infer. — «E ciliis geminis forte alterum ut stipes seu basidium habendum est».

7. **Dinemasporium ciliatum** (Bon.) Sacc. *Chetomium ciliatum* Bon. 3616

Handb. Myk. p. 226. — Peritheciis ovoideis, teneris, basi imprimis pilis longis nigris, non septatis instructis mycelioque repente cinctis; sporulis cylindraceutis, utrinque setulâ exiguâ ornatis.

Hab. in culmis graminum inter muscos in Guestphalia.

8. **Dinemasporium Dianthi** (West.) Oud. Bot. Zeit. 1875, p. 591, *Phyl-* 3617

losticta Dianthi West. Not. Crypt. ined. 1851 e p. — Maculis subcircularibus dein subconfluentibus, albidis; peritheciis exiguis, numerosis in utraque pagina prominulis, setulis atris cladosporioides cinctis, collabascendo depressis, atris, supra stramineis; sporulis elongatis, hyalinis, 14-16 \approx 3,5, utrinque in setulam brevem productis, obsolete 1-septatis.

Hab. in foliis languidis Dianthi barbati in Belgio.

9. **Dinemasporium Patella** C. et Ell. in Grevillea. — Sparsum; pe- 3618

ritheciis demum superficialibus, atris, cupuliformibus; margine incurvatis, extus flexuoso-pilosis; sporulis fusiformibus, curvulis,

utrinque attenuatis, 3-4-nucleatis, 25-30 μ . longis (sine appendiculis).

Hab. in caulibus herbarum, New Jersey Amer. bor. — Habitus *Excipulæ recurvæ* Gerard, sed sporulæ aristatæ et paullo majores.

10. **Dinemasporium hispidulum** (Schrad.) Sacc. Mich. II. p. 281, *Peziza hispidula* Schrad. Journ. Bot. 1799, II. p. 64, *Polynema hispidulum* (Schrad.) Fr. Summa p. 367, Sacc. Spec. Ven. p. 189, t. XVII. f. 16. — Peritheciis gregariis vel sparsis, majusculis, cupuliformibus, atris, setis rigidis longis rectis, subseptatis, disco glaucescente; sporulis elongato-fusoideis, curvulis, 14-18 \approx 2-2,3, 3-4-guttulatis, utrinque setulâ brevi obliquâ auctis.

Hab. in ligno putrescente Quercus, Castaneæ, Coryli, Robiniæ etc., rarius in culmo Donacis in Germania, Gallia, Italia, Belgio. — Var. **herbarum** Cooke F. Br. II. n. 28: peritheciis sæpe paullo majoribus; sporulis 11-14 \approx 2,5-3, breviter ciliatis. In caule Labiatarum, Silenes, Urticæ in Britannia, Italia, America boreali.

11. **Dinemasporium decipiens** (De Not.) Sacc. Mich. II. p. 282, *Excipula decipiens* De Not. Att. Accad. Tor. Ser. II. 10 p. 170. — Peritheciis gregariis cupulatis exiguis, atris, setulis rigidulis atris rectis hirtis; sporulis fusoideo-allantoideis, 6-7 \approx 2-2,5, utrinque setulâ filiformi, 6-7 \approx 1, obliquâ auctis; basidiis (in peritheciis junioribus observandis) filiformibus, prælongis, dichotome ramosis, subinde simplicibus, mox evanescentibus.

Hab. in lignis Carpini, Robiniæ, Castaneæ, Quercus, Rhamni in Italia boreali et Austria.

12. **Dinemasporium Robiniæ** Gerard in litt. Peck 25 Rep. p. 88. — Peritheciis cupuliformibus, setosis, nigris; sporulis elongatis, 5 μ . longis, utrinque aristâ sporulam æquante auctis.

Hab. in ligno Robiniæ, Poughkeepsie Amer. bor. (GERARD). — «An diversum a *D. decipiente*?».

13. **Dinemasporium Pezizula** B. et C. North Amer. Fungi n. 454. — Pezizæforme, hirtum; sporulis curvatis, angustis, 3-5-nucleatis, 20 \approx 4.

Hab. in ramis et ligno Sambuci pubentis in montanis Carolinæ sup., New Baltimore et North Greenbush Amer. bor.

14. **Dinemasporium gelatinosum** B. et Br. Fungi of Ceyl. n. 797. — Superficiale, in epidermide nigra insidens; sporulis hyalinis magnis, breviter fusiformibus ellipticisve, 30-33 μ . longis.

Hab. in ramis emortuis, Central province Ceylon.

15. **Dinemasporium acerinum** Peck 26 Rep. pag. 77. — Peritheciis 3624
minutis, pezizoideis, nigris, pilis sparsis, atris, brevibus rectis hirtis; sporulis inæqualiter ellipsoideis, 7-8 μ . longis, utrinque setulâ 2-3 μ . longâ auctis.

Hab. in ligno Aceris, Buffalo Amer. bor. (CLINTON.) — A *D. Robiniæ* sporulis longioribus pilisque brevioribus dignoscitur.

16. **Dinemasporium affine** Speg. F. Arg. Pug. III. n. 130. — Peri- 3625
theciis cupulato-hemisphæricis, gregariis, $\frac{1}{4}$ - $\frac{1}{5}$ mill. diam., atris, siccis, ruguloso-contractis, udis aperto-applanatis, epithecio albiohyalino diffluente, setis, raris, paucis, cylindræis, utrinque subattenuatis, 3-5-septatis, 50-80 \approx 5, atris ornatis, contextu densissime prosenchymatico, minuto, atro, carnosulo; sporulis ellipticonavicularibus, 4-5 \approx 1 $\frac{1}{2}$, utrinque rotundatis ac setulâ æquilongâ hyalinâ auctis, in sterigmatibus cylindræis, hyalinis, 10-15 \approx 1, acrogenis.

Hab. in trabe vetusta diu intemperiiis exposita prope el Retiro, Buenos-Aires Argentinae.

17. **Dinemasporium Betulæ** (Fuck.) Sacc. *Excipula Betulæ* Fuck. En. 3626
Nass. p. 64. — Gregarium, sessile, applanatum, concavum, extus setis longis erectis, nigris, disco pallescenti; sporulis parvis, cylindræis, curvatis, utrinque longe 1-aristatis.

Hab. in ligno betulino decorticato, ad terram prostrato, Eberbach Rhenogoviæ. — Totus fungulus 1 lineam latus.

18. **Dinemasporium fimeti** Plowr. et Phill. in Grev. IV. p. 119, t. 62, 3627
fig. 1. — Peritheciis subrotundis, superficialibus, nigris; sporulis utrinque appendiculatis, 7 μ . longis (absque ciliis).

Hab. in stercore cuniculorum, King's Lynn Britanniae. — A *D. graminum* differt peritheciis minoribus et compactioribus et sporulis minoribus.

II. *Stauronema* Sacc.

Sporulæ cruciato-aristatæ.

19. **Dinemasporium cruciferum** Ellis Bull. Torr. Cl. Fetr. 1882, p. 20. 3628
— Minutum, margine atro-brunneo-setulosum, setulis 75-85 μ . longis; sporulis oblongis, curvulis, 7,5-8,5 \approx 3-4, carneolo-hyalinis utrinque aristâ obliquâ, sporulam æquante auctis, nec non ad medium aristâ brevioris utrinque ornatis (hinc ciliis quatuor decussatis).

Hab. in culmis foliisque dejectis graminum prope Newfield

N. J. Amer. bor. — Interdum a medio latere convexiore sporularum binæ aristæ oriuntur fere ut in *Diap. Chor. Taleola*.

20. **Dinemasporium Platense** Speg. Fung. Arg. II. p. 36. — Peritheciis siccis globoso-contractis, udis diffluentibus subpatellaribus, atris, $\frac{1}{2}$ - $\frac{1}{3}$ mill. diam., hirsutis; setulis continuis, opacis, rectis rigidis, atris, 60-100 \approx 6-8, apice obtuse rotundatis; sporulis cylindraceo-ellipticis, inæquilateraliter rotundatis, 15 \approx 4-5, utrinque ac medio dorso setula 15 \approx 1 hyalina ornatis.

Hab. in culmis putrescentibus Scirpi speciei cujusdam ad ripas Rio de la Plata in Rep. Argentina.

POLYNEMA Lév. Ann. Sc. nat. 1846, p. 274 (Etym. *polys* multus, et *nema* filum), *Excipula* De Not. — Perithecia cupuliformia, superficialia, atra, setis rigidulis vestita. Sporulæ oblongæ, continuæ, hyalinæ, stipitellatæ, apice aristis subquaternis patentibus ornatae.

1. **Polynema ornatum** (De Not.) Lév. Ann. Sc. nat. 1846, p. 274, *Excipula ornata* De Not. Att. Accad. Tor. 1845, VII. Dec. III. n. 2. — Peritheciis cupuliformibus, superficialibus, atris, minutis, siccis contractis, madore apertis, strigoso-hirtis; setulis confertis, flexuosis, rigidis, longiusculis, fuscis; disco cinerescente; sporulis oblongis vel oblongo-clavulatis, chlorino-hyalinis, apice aristis patentibus quaternis ornatis, basidiis setiformibus suffultis, 8-10 \approx 2-2,5, ciliis basidioque 5-6 μ . longis.

Hab. in epidermide dealbata trunci Castaneæ vescæ prope Genova Italiæ borealis.

DISCELLA B. et Br. Ann. N. H. n. 426 ex parte (Etym. a *disco* ob formam perithecii). — Perithecia disciformi-patellata, sæpe imperfecta et veluti e matrice mutatâ formata, epidermide dein varie fissa diu velata. Sporulæ fusoidæ vel oblongæ, 1-septatæ subhyalinæ. — Genus elementis heterogeneis compositum; nonnullæ species, perithecio vero carentes ad *Melanconieas* aptius ducerentur. Species amerosporas sub genere *Discula* seposui.

1. **Discella carbonacea** (Fr.) B. et Br. Ann. N. H. n. 426, t. XII. f. 8, *Phacidium carbonaceum* Fr. S. M. II. p. 574, *Nemaspora Mougeotii* de Lacr. — Peritheciis discoideis vel excipuliformibus, sparsis, atris, epidermide initio tectis, demum eâ laciniatim scissâ, erumpentibus; sporulis fusoides, rectis, 18 \approx 6, 1-septatis, non constrictis, hyalinis vel chlorinis, basidiis teretibus dimidio brevioribus suffultis.

Hab. in ramis corticatis Salicis capreæ, S. albæ etc. in Gallia, Germania, Britannia, Lusitania, America boreali.

2. **Discella canadensis** Peck Rep. on the St. Mus. New York. — 3632
Pustulis exiguis; peritheciis obsoletis vel evanidis; sporulis oblongis vel oblongo-ovoideis, 20-25 μ . longis, initio hyalinis dein coloratis et plerumque 1-septatis, in grumulos vel cirros atros exsiliantibus; basidiis sporulas subæquantibus eisque primum hærentibus.

Hab. in ramis Amelanchieris canadensis, Center Americæ borealis.

3. **Discella arida** Peck Rep. on the St. Mus. New York. — Peritheciis in maculis sat amplis, aridis, griseis innatis, minutis, applanatis, pezizoideis, nigris, initio epidermide tectis, dein ea circulariter secedente, anulatim prominulis; sporulis oblongis vel lanceolatis, continuis dein 1-septatis, hyalinis, 9-13 μ . longis. 3633

Hab. in foliis languidis Cassandræ calyculatae, Adirondack Amer. bor. — Faciem præbet minutæ *Mollisiæ*.

4. **Discella abnormis** B. et Br. Ann. N. H. n. 429. — Peritheciis spuriis globosis, poro rotundo pertusis, omnino tectis et cum matrice fere confusis; sporulis breve fusoideis, 1-septatis, flavo-brunneis. 3634

Hab. in ramulis Sambuci, Batheaston Britannia. — Ad typum *Diplodiæ* accedit.

PSEUDOPATELLA Sacc. (Etym. a similitudine *patellæ*). Cfr. Tul. Select. Fung. Carp. III. p. 177, t. XX. f. 9-11, ut spermogonium *Durrellæ*. — Perithecia initio globulosa, dein patellato-pezizoidea, turgidula, subcoriacea, glabra, subsuperficialia, atra, disco pallidiore. Sporulæ oblongæ 1-septatæ, subhyalinæ in basidiis longis, ramulosis, tortuosis acro-pleurogenæ.

1. **Pseudopatella Tulasnei** Sacc. Cfr. Tul. l. c. Characteres generis. 3635
Sporulæ oblongæ, vix curvulæ, utrinque rotundatæ, 1-septatæ, vix constrictæ, 8-11 = 3,5.

Hab. in lignis nudis, arefactis Castaneæ et Quercus prope Paris et Versailles Gallia. — Sec. Tul. sistit spermogonium *Durrellæ compressæ*.

EXCIPULINA Sacc. (Etym. ab *Excipula*, cui affinis) *Excipula* Auct. p. p. — Perithecia excipuliformia vel subcupulata, erumpenti-superficialia, atra, glabrescentia. Sporulæ elongato-fusoideæ, 2-pluri-septatæ, subhyalinæ, (in una specie apice rostratæ).

1. **Excipulina recurvispora** (B. et C.) Sacc. *Excipula recurvispora* 3636
B. et C. North Amer. Fungi n. 450. — Maculis fuscis, nigro-marginatis; peritheciis erumpentibus; sporulis longis, anguste fusiformibus, 4-septatis, apice in processum longum hyalinum recurvum attenuatis.

Hab. in foliis Lauri Caroliniensis in Carolina inf.

2. **Excipulina conglutinata** Ellis et Everh. Bull. Washburn. I. p. 6. 3637
— Peritheciis hemisphæricis, $\frac{3}{4}$ -1 mill. diam., fibroso-contextis, fibris marginalibus subliberis, hinc marginem subfimbriatum et incurvatum formantibus, materie viscosa atra conglutinatis; disco pallido; sporulis copiosis, arcuato-fusoideis, utrinque attenuatis, plasmate 2-3-partito vel 2-3-septatis, 22-25 = 3.

Hab. in caule putri Valerianæ capitatæ in M. Paddo Washington Amer. bor. (SUKSDORF). — Habitus Sphæriacæ collapsæ; differt ab *E. incurva* sporulis acuminatis, longioribus et peritheciis glabris.

EXCIPULARIA Sacc. (Etym. ab *Excipula*, cui affinis) *Excipula* Auct. p. p. — Perithecia excipuliformia, atra, setosa. Sporulæ fusoideæ, 2-pluriseptatæ, hyalino-fuscellæ, basidiis brevibus suffultæ.

1. **Excipularia fusispora** B. et Br. Ann. N. II. n. 814, t. IX. f. 1. 3638
— Peritheciis minutis, nigris, setulis continuis, rigidis, dense vestitis; sporulis anguste fusiformibus, 6-7-septatis, curvis, 50 μ . longis, articulis extimis hyalinis, ceteris fuscellis guttulatisque; basidiis bacillaribus brevibus.

Hab. in cortice interiore Clematidis Vitalbæ in Britannia.

PILIDIUM Kunze Myk. Heft. II. pag. 92, emend. (Etym. *pilidion* pileolus). — Perithecia erumpentia, discoideo-scutellata, inæqualia, membranacea, atro-fuliginea, denique margine sublaciniata, disco pallidiore. Sporulæ oblongæ vel fusoideo-falcatae, 2-pluriseptatæ, hyalinæ.

1. **Pilidium fuliginosum** (Fr.) Auersw. Hedw. 1866, p. 191, *Cenangium fuliginosum* Fr. Elench. II. p. 23, *Pilidium carbonaceum* (Lib.) B. et Br. Ann. N. H. n. 442. — Peritheciis irregularibus atro-brunneis, in plagas latas aggregatas subiculoque late effuso, ambiente innatis; sporulis filiformibus falcatis, 3-septatis, hyalinis.

Hab. in ramulis salicinis e. g. Salicis capræ in Gallia, Britannia, Germania.

2. **Pilidium Eucleæ** (K. et C.) Sacc. *Protostegia Eucleæ* Kalch. et Cooke 3640

in Grev. 1880, p. 19. — Epiphylla; peritheciis immersis, discoideis, fuscis, margine dentato; disco aquose cinereo, convexo; sporophoris parce ramosis; sporulis linearibus, rectis v. curvulis multinucleatis, demum 3-5-septatis, 40-50 \approx 3.

Hab. in foliis Eucleæ undulatæ in Africa australi.

SCHIZOTHYRELLA Thüm. M. U. n. 1684 (Etym. *schizo* findo, et *thyreos* scutum). *Schizothyrium* Lib. Herb. et in Roum. F. Gallici n. 612. — Perithecia innata vel superficialia, membranacea, primo clausa, dein in lacinias a centro versus ambitum dehiscencia, a nucleo discreta. Nucleus ceraceus, coloratus. Sporulæ cylindræo-filiformes, septatæ, dein in articulos utrinque truncatos septatosque secedentes, hyalinæ vel pallidæ. — Articuli ipsi, in quos sporulæ facile dilabuntur, possunt, si inavis, considerari ut sporulæ in catenulam digestæ.

1. **Schizothyrella quercina** (Lib.) Thüm. M. U. 1684, *Schizothyrium* 3641 *quercinum* Lib. in Roum. F. Gall. n. 612. — Peritheciis hypophyllis, innatis, hemisphæricis, nigris, in lacinias 4-6 dehiscens, excipuli contextu parenchymatico fuligineo, distincto, nucleo luteo-rubello; sporulis filiformibus seu in catenulas longissimas digestis, cylindricis utrinque obtusis, 15 \approx 1½, quadrilocularibus, loculis ipsis denique secedentibus, 4 \approx 1½, hyalinis v. pallide melleis.

Hab. in foliis quercinis frigore necatis prope Malmedy in Arduennis (LIBERT). — Fungus singularis ob fructificationem ad *Blennorium Buxi* Fr. et *Leptothyrium? botryoides* Sacc. accedens. Sec. Speg. in Roum. Rev. Myc. adsunt subinde hyphæ intermixtæ ramulosæ nodulosæ, septulatae, crassiusculæ, hyalinæ.

2. **Schizothyrella australis** (Sp.) Sacc. *Schizothyrium australe* Speg. 3642 F. Argent. n. 128. — Peritheciis superficialibus, sparsis, primo globosis vel difformi-lenticularibus, clausis, atris, dein laciniatim dehiscens, epithecio sordide ceraceo-albo, coriaceo-membranaceis, contextu indistincte parenchymatico atro; sporulis cylindræo-filiformibus, hyalinis, filiformibus, longitudine varia, mox in articulos cylindræos utrinque truncatos, 10-25 \approx 3, secedentibus.

Hab. in ligno putrescente decorticato *Excæcaria* (Sapii) biglandulosæ in sepibus prope la Recoleta Argentina.

PROTOSTEGIA Cooke in Grevillea p. 19. (Etym. *protos* primus et *Stegia*, h. e. quasi initium *Stegiae*). — Primo tecta, dein denudata, discoidea, margine lacerato, dentato fimbriatove, disco gelatinoso. Sporulæ filiformes, continuæ, pedicellatæ, dein liberæ.

1. **Protostegia Magnoliæ** (Rav.) Sacc. *Stegia Magnoliæ* Rav. Fungi 3643
Amer. n. 320, Ellis North Amer. n. 676. — Peritheciis disciformibus erumpentibus, atris, gregariis, hypophyllis; sporulis anguste cylindræis, curvis, fasciculatis, $30 \approx 0,5$, subhyalinis.

Hab. in foliis languidis Magnoliæ glaucæ in Carolina inf.

ONCOSPORA Kalch. in Grevillea 1880, p. 19 (Etym. *oncos* uncus et *spora*). — Perithecia erumpentia, cupuliformia vel discoidea, plerumque gregaria, disco nudo, gelatinoso. Sporulæ hyalinæ, continuæ, flexuosæ, in sporophoris tenuissimis acrogenæ. — Subinde substipitata et emergens sæpeque cæspitosa.

1. **Oncospora bullata** Kalch. et Cooke South Afr. Fungi in Grevillea 3644
1880. — Maculis bullatis, nigris; peritheciis gregariis, discoideis, atris, margine elevato; hymenio fusco; sporulis subclavatis, hamatis vel sigmoideis, simplicibus, $30 \approx 7$.

Hab. in foliis Capparidis citrifoliæ in Africa australi. — Cæspitulum *Mollisiæ Dehnii* fere æmulatur. Sporulæ signum interrogationis (?) sæpe imitantes.

EPHELIS Fr. Fungi Mex. in B. et C. Cub. Fungi n. 567 et in Summa Veg. Scand. p. 370. (Etym. *epi* supra et *helos* clavus vel tuberculum). — Stroma subeffusum, sclerotioideum, atrum. Perithecia pezizoideo-aperta, stromate inserta. Sporulæ cylindrææ vel filiformes, continuæ, hyalinæ.

1. **Ephelis mexicana** Fr. Fungi Mex. sec. B. et C. Cub. Fungi n. 567. 3645
— Stromate solido nigro, *Dilophosporæ* ad instar; peritheciis pezizoideis, expositis; sporulis filiformibus, exiguis 25μ . longis, basidiis minutis suffultis.

Hab. in inflorescentia Graminum, quæ in stroma atrum sclerotioideum mutatur. — Videretur *Peziza* minuta e stromate nigro enata.

2. **Ephelis brevis** B. et Br. Fungi of Ceyl. n. 800. — Solida, nigra; 3646
sporulis minutis, brevibus, linearibus, 4μ . longis.

Hab. in Anthisteria tremula, Peradeniya, Ceylon. — Habitus ab initio *Sclerotii Clavi*.

3. **Ephelis viridans** (K. et C.) Sacc. *Oncospora viridans* Kalch. et 3647
Cooke South Afric. Fungi in Grev. 1880, pag. 20. — Epiphylla, cæspitosa, erumpens; peritheciis atris, substipitatis, in stromate pulvinate-congestis; disco cinereo; sporulis cylindricis vel subclavatis, rectis vel curvulis, $20 \approx 3,5$, hyalinis; sporophoris gelatinâ viridi immersis.

Hab. in foliis Capparidis Guienzii in Africa australi.

Genera dubia vel excludenda.

COCCOBOLUS Wallr. Fl. crypt. gen. n. 359. (Ety. *coccus* granum et *bolos* jactus). — Perithecium tenuiter membranaceum, nigrum, latitans, insculptum cubilibusque coarctatum, simplex, pulpa gelatinosa fluxa farctum eaque dein ex vertice dimoto prominulo denuoque contracto propulsa, sphaerica, limpida, superficiali, mox (siccando) coacta vesicæformi. Sporulæ (ascidia Wallr.) exilissimæ, sphaericæ, gelatinæ innatantes, in globulum ejectæ.

1. **Coccobolus castaneus** Wallr. Fl. crypt. n. 3648. — Globulo sporophoro emerso, primum limpido dilute, dein saturatius fusco, nitido, majusculo.

Hab. ad ligna decorticata fraxinea in Thuringia.

2. **Coccobolus aëneus** Wallr. Fl. crypt. n. 3649. — Globulo sporophoro emerso, primum vinoso, dein aëneo-virente, melanophæno, parvo.

Hab. ad frustula ligni faginei in Hercynia infer.

AMPHISPORIUM Link Obs. II. p. 40, t. I. f. 6, Wallr. Fl. crypt. gen. n. 266 (Ety. *amphi* et *spora*, ob sporulas dimorphas). — Perithecium persistens. Sporulæ dimorphæ, aliæ globulosæ, aliæ fusi-formes, nudæ.

1. **Amphisporium versicolor** Link l. c. Wallr. l. c. n. 2083. — Perithecio convexo, pallido, submucoso; sporulis concoloribus biformibus farcto.

Hab. ad bulbos Hyacinthi, sub aqua, hyemis tempore demersos in Germania (LINK). — Perithecii colore mutabilis, primum albus, dein lutescens, denique pallido-cinerescens.

ENDOTRICHUM Corda Anl. pag. 147 et Icon. II. p. 25, f. 24 (Ety. *endon* intus et *thrix* floccus). — Perithecia carbonacea, innata v. immersa, dein rima longitudinali rarius irregulariter dehiscentia, intus nucleo sporularum colorato, floccis continuis intertexto. Basidia spuria dein secedentia, monospora. Sporulæ heterogeneæ, continuæ, irregulariter inspersæ. — Species unica **E. xylogrammicum** Corda l. c. In lignis in Bohemia. Sporulæ 3-4 μ . l., ellipticæ, fuscæ.

NEURÆCIUM Kunze in Fr. Summa Veg. Scand. p. 370 (Ety. *neuron* nervus, fibra, et *oikos* domus). — Perithecia innata, oblonga, in ambitu floccoso-radiantia, rima longitudinali discoideo-aperta. Sporulæ maximæ, intus grumosæ in thalamo pellucide fibroso dense

conglutinatae. — Species unica **N. Degueliæ** Kunze. In foliis *De- 3652*
gueliæ scandentis in Brasilia. — Videretur *Sphæropsidea*
dimidiata, prope *Leptostroma*; nisi sporulæ maximæ sint asci.

MICROSTICTA Desm. Ann. Sc. nat. 1849, p. 360 (Etym. *micros* par-
 vus et *stictos* punctatus).

1. **Microsticta vagans** Desm. l. c. *Perisporium speireum* Fr. S. M. 3653
 II. p. 350, *Depazea speirea* Corda II. p. 27, f. 98. — Peritheciis
 adnatis, planiusculis, orbiculatis, opacis, atris, ceterum superficia-
 libus.

Hab. in pag. inf. foliorum variarum plantarum in Suecia, Gal-
 tia etc. — «Fere absque dubio sistit incunabula *Microthyrii mi-*
croscopici».

2. **Microsticta Pomi** (Mont.) Desm. l. c., *Labrella Pomi* Mont. Ann. 3654
 Sc. nat. 1834, p. 347. — Maculis nullis; peritheciis ellipticis, mi-
 nimis, rugosis, nitidis, dein (teste Thüm.) apertis et excipuliformi-
 bus; sporulis subglobosis, dilute griseolis, 7 μ . diam. (teste Thüm.).

Hab. in epicarpio Piri Mali in Gallia, Italia, Germania et
 Amer. bor. etc.

PLEOSPOROPSIS Erst. Syst. Pilz. p. 55. (Etym. *Pleospora* et *opsis*
 aspectus). — Perithecia globoso-depressa, initio læticoloria, dein fu-
 sca, subsuperficialia, papyracea, dein vertice circumscisso opercu-
 latim dehiscentia; contextu hexagono-parenchymatico, pellucido.
 Sporulæ continuæ, ovoideæ, majusculæ, pallide flavæ. — Ambi-
 guum genus, forte non diversum a *Mycogalacte*. Cfr. pag. 185.

1. **Pleosporopsis strobilina** (A. S.) (Erst. l. c., *Licea strobilina* A. S. 3655
 Consp. p. 109, t. VI. f. 5, *Perichæna strobilina* (A. S.) Fr., Corda
 Ic. V. p. 56, f. 30. — Peritheciis gregariis cinnamomeis, dein sor-
 dide fuscis, glabris; pulpa sordide flava pulverulenta; sporulis ovoi-
 deis, subpellucidis, extus subgranulosis, 22-26 μ . longis.

Hab. in pag. inf. bractearum strobilorum Pinorum et Abie-
 tum in Gallia, Germania, Bohemia, Britannia.

REPERTORIUM
SPHÆROPSIDEARUM EXCIPULACEARUM
 SECUNDUM MATRICES

Obs. A. indicat *Amerosporium*. — Ai. *Amphisporium*. — C. *Catinula*. — Co. *Coccobolus*. — D. *Dothichiza*. — De. *Discella*. — Di. *Dinemasporium*. — Du. *Discula*. — E. *Excipula*. — Da. *Excipularia*. — Ei. *Excipulina*. — Eu. *Endotrichum*. — Es. *Ephelis*. — G. *Godroniella*. — H. *Heteropatella*. — L. *Lemalis*. — M. *Microsticta*. — N. *Neuræcium*. — O. *Oncospora*. — P. *Pleococcum*. — Pa. *Pseudopatella*. — Pi. *Pilidium*. — Pl. *Pleosporopsis*. — Po. *Polynema*. — Pr. *Protostegia*. — Ps. *Psilospora*. — S. *Sporonema*. — Sa. *Schizothyrella*.

N. 3519 — 3655 citantur 519 — 655

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|--------------------------------------|-------------------------------|
| Abies — E. 525. — S. 590. — Pl. 655. | Ceanothus — Du. 567. |
| Acer — Du. 572. 573. — Di. 624. | Citrus — Du. 569. |
| Adenostyles — A. 597. | Clematis — Ea. 638. |
| Alisma — L. 558. | Collinsonia — E. 542. |
| Amelanchier — De. 632. | Conium — A. 592. |
| Andropogon — Di. 610. 614. | Corylus — C. 560. — Di. 619. |
| Anthisteria — Es. 646. | Cyperaceæ — P. 592. |
| Arbutus — S. 588. | Darlingtonia — Du. 579. |
| Arundo — Di. 610. 619. | Deguelia — N. 652. |
| Betula — Di. 626. | Dianthus — Di. 617. |
| Capparis — O. 644. — Es. 447. | Empetrum — E. 535. |
| Carex — E. 523. — P. 592. — A. 608. | Equisetum — A. 609. |
| — Di. 610. | Erica — S. 588. |
| Carica — E. 527. | Euclea — Pi. 640. |
| Carpinus — Du. 574. — Di. 620. | Euphorbia — H. 551. — A. 598. |
| Carya — A. 603. | Eutriana — Di. 610. |
| Cassandra — De. 633. | Exeacaria — Sa. 642. |
| Castanea — Di. 619. 620. — Po. 630. | Fagus — Ps. 594. — Co. 649. |
| — Pa. 635. | Fraxinus — A. 604. — Co. 648. |

- Galium — E. 538.
 Glycine — E. 524.
 Graminaceæ — P. 592. — A. 607. —
 Di. 610. 611. 616. 628. — Es. 645.
 Hemerocallis — E. 540.
 Hyacinthus — Ai. 650.
 Ilex — A. 603.
 Juglans — C. 562.
 Iuncus — G. 519. — Du. 582.
 Kalmia — Du. 575.
 Labiatae — Di. 619.
 Lathyrus — P. 593.
 Laurus — Ei. 636.
 Linaria — H. 550.
 Liriodendron — E. 532.
 Magnolia — Du. 566. — Pr. 643.
 Mangifera — C. 661.
 Medicago — S. 584. — Di. 610.
 Mespilus — S. 586.
 Nymphæa — S. 587.
 Osmunda — E. 545.
 Phragmites — Di. 612. 613.
 Phytolacca — E. 520. 531.
 Pinus — E. 534. — D. 557. — L. 558.
 S. 590. — Pl. 655.
 Pirus — Du. 580. — S. 591. — M. 654.
 Plantago — E. 536.
 Platanus — Du. 564. 565.
 Populus — E. 526. — D. 555. 556.
 Prosopis — Du. 581.
 Prunus — D. 552.
 Quercus — E. 521. — Du. 568. — S.
 585. — Ps. 595. — Di. 619. 620. —
 Pa. 635. — Sa. 641.
 Rhamnus — D. 554. — Di. 620.
 Robinia — Di. 619. 620. 621.
 Rumex — E. 543.
 Salix — E. 528. — Du. 570. 571. —
 De. 631. — Pi. 639.
 Sambucus — S. 589. — Di. 622. —
 De. 634.
 Sarothamnus — A. 601.
 Scirpus — Di. 629.
 Silene — Di. 619.
 Sorbus — D. 553.
 Spartium — A. 601.
 Spiræa — E. 522. 533.
 Stellaria — E. 537.
 Typha — E. 544.
 Ulex — A. 602.
 Ulmus — E. 529.
 Urtica — Du. 578. — Di. 619.
 Vaccinium — S. 588.
 Valeriana — Ei. 637.
 Verbascum — E. 539.
 Vitis — E. 530.
 Yucca — Du. 583. — P. 592.
 Zea — Di. 615.

MELANCONIÆ Berk.

Outl. Brit. Fungol. p. 323, emend. Sacc. Mich. II. p. 10.

Stilbosporeæ, *Coryneaceæ*, *Cytisporaceæ* Fr. p. p. — *Phragmidiaceæ*, *Nemasporeæ*, *Tubercularinæ* Bon. p. p. — *Coryneaceæ*, *Cæomaceæ*, *Phragmidiaceæ* etc. Corda p. p. — *Melanconiæ*, *Ægeritæ* etc. Payer p. p. — *Uredinæ* Kickx p. p.

Fungi perithecio ascisque carentes, ex acervulis subcutaneis denique partim erumpentibus sæpius molliusculis constantes, sordidi, grisei v. læte colorati. Sporæ (*conidia*) basidiis variis subinde obsoletis suffultæ e strato prolifero, plus v. minus evoluto, oriundæ.

Clavis analytica generum.

Sect. 1. Hyalosporæ Sacc.

Conidia globosa, ovoidea, oblonga v. breve cylindracea, continua, hyalina v. rarius dilute colorata.

A) Conidia mutica seu non aristata.

§ Acervuli inermes seu setis carentes.

I. Conidia solitaria, nec catenulata.

- 699 *Hainesia*. Acervuli mox erumpentes, læticolores, subtremelloidei, phyllogeni.
 699 *Gleosporium*. Acervuli diu tecti, grisei v. pallidi, subceracei, phyllogeni v. caulicoli.
 722 *Myxosporium*. Acervuli diu tecti, grisei v. læticolores, majuseuli, subceracei, in ramis arborum parasitici.
 728 *Melanostroma*. Acervuli erumpentes, subcornei, atri, discoidei, conidiis pallidis copiose obducti.

II. Conidia catenulata.

- 728 *Hypodermium*. Acervuli oblongi, hysterioidei, atri, duriuseuli.
 729 *Myxosporella*. Acervuli discoidei, læticolores, molliuseuli.
 730 *Blennoria*. Acervuli discoidei, fusci, compactiuseuli, puccinioidei; basidia typice dichotomo-ramosissima; conidia breve bacillaria, subhyalina.
 731 *Agyriella*. Acervuli depresso-pulvinati, atro-nitentes; basidorum rami pluries verticillato-ramosi, hinc capitato-conidiophori; conidia breve cylindracea.
 731 *Trullula*. Acervuli depresso-conoidei, atri, perithecioidei, mox erumpentes; basidia breviuscula, simplicia v. parce ramosa; conidia oblonga v. cuboidea, hyalina v. dilute colorata.
 734 *Myxormia*. Acervuli discoideo-scutellares, olivacei v. cinerei; conidia typice per isthmios catenulato-connexa.

Bloxamia. Acervuli truncati, inferne atris et solidis, superne pallidis et subevanidis; conidia subcuboidea. p. 734

§§ Acervuli margine setosi.

Colletotrichum. Acervuli fere *Glœosporii*, setulis atris (*Vermiculariæ* ad instar) cincti. p. 735

B) Conidia aristata.

Pestalozziella. Acervuli minuti, fere phyllostictoides; conidia apice aristata ramosa ornata. p. 737

Sect. 2. *Scoleco-allantosporæ* Sacc.

Conidia cylindrica, nunc longa filiformia, nunc breviora suballantoidea, continua, subhyalina.

Cylindrosporium. Acervuli subeffusi in foliis subvivis subepidermici, albi v. pallidi; conidia filiformia, sæpe tortuosa. p. 737

Cryptosporium. Acervuli figurati, sæpius saprophyti, atris v. griseis; conidia fusoides-falcata, majuscula. p. 740

Libertella. Acervuli difformes, sæpe læte colorati, saprophyti; conidia filiformi-falcata, longa. p. 744

Nemospora. Acervuli difformes, sæpe læte colorati, saprophyti; conidia allantoidea breviuscula. p. 745

Sect. 3. *Phæosporæ* Sacc.

Conidia globosa, oblonga v. elongata, continua, fuliginea v. olivacea.

Melanconium. Conidia in apice basidorum solitarie acrogena, globosa vel oblonga. p. 749

Cryptomela. Conidia in apice basidorum solitarie acrogena, fusoides sæpe arcuata.

Thyrsidium. Conidia in apice basidorum catenulata et verticillato-capitata, globosa v. oblonga.

Sect. 4. *Didymosporæ* Sacc.

Conidia ovoidea, subfusoides v. oblonga, 1-septata, hyalina v. fuliginea.

Didymosporium. Conidia fusca, solitaria, h. e. non concatenata. Species saprogenæ.

Bullaria. Conidia fusca, catenulata et per isthmum hyalinum connexa. Species saprogenæ.

Septomyxa. Conidia subhyalina, solitaria, h. e. non concatenata. Species saprogenæ, rami-fructicolæ.

Marsonia. Conidia subhyalina, solitaria, h. e. non concatenata. Species biogenæ, typice foliicolæ.

Sect. 5. Phragmosporæ Sacc.

Conidia oblonga v. breve cylindræa, 2-pluriseptata, fuliginea v. hyalina.

§ *Phæophragmiæ*: conidiis fuligineis.

I. Conidia mutica seu non ciliata.

A) Conidia solitaria seu non concatenata.

Stilbospora. Conidia oblonga, non rostrata, mox exsiliendo atro-inquinantia; acervuli jugiter tecti.

Coryneum. Conidia oblonga, non rostrata, non effluentia nec fœdantia; acervuli erumpentes.

Scolecosporium. Conidia elongata, fusca, apice curvo-rostrata, pallidiora.

Asterosporium. Conidia stellato-lobata, lobis pluriseptatis.

B) Conidia per isthmos filiformes concatenata.

Seiridium. Conidia oblonga, fusca, isthmis hyalinis connexa.

II. Conidia hyalino-ciliata.

Hyaloceras. Conidia utrinque, incurvo-1-ciliata, fusca.

Pestalozzia. Conidia fusca, apice 1-ciliata (*Monochaetia*), v. pluri-ciliata (*Eupestalozzia*), rarius tota hyalina v. subhyalina (*Pestalozzina*).

§§ *Hyalophragmiæ*: conidiis subhyalinis.

Rhopalidium. Conidia longe clavata, solitaria; acervuli fuscii.

Septoglœum. Conidia oblonga vel fusoidea, solitaria; acervuli plerumque pallentes.

Prosthemella. Conidia cylindræa, basi stellatim connata; acervuli supra læticolores.

Sect. 6. Dictyosporæ Sacc.

Conidia oblonga, piriformia v. rhombea, pluri-septato-muriformia, fusca.

Steganosporium. Conidia solitaria, h. e. non concatenata, olivacea v. fuliginea.

Phragmotrichum. Conidia catenato-superimposita, isthmis cylindræis connexa, atra.

HAINESIA Ell. et Sacc. (Etym. a cl. W. J. HAINES botan. americano e West Chester), *Gloeosporium* Sacc. ex p. — Acervuli subcuticulares sed mox erumpentes, pulvinati, minuti, phyllogeni, læticolores, sæpius flavo-rubentes, subtremelloidei. Conidia oblonga v. suballantoidea, continua, hyalina, in basidiis filiformibus, sæpe ramulosis fasciculatis acro-pleurogena.

1. **Hainesia rhoïna** Ell. et Sacc. *Gloeosporium? rhoïnum* Sacc. F. it. 3656 t. 1035. — Maculis hypophyllis subcircularibus expallentibus, atromarginatis; acervulis innato-emergentibus, pulvinatis, subsuccineis; conidiis subballantoideis, curvulis 10-12 \approx 3; basidiis copiose simpliciter v. bis ramosis, 56-70 μ . altis, ramulis interdum verticillatis, bacillaribus, hyalinis, coacervatis vero luteolis.

Hab. in pag. inf. foliorum *Rhoïis glabræ*, Narvesa (Treviso) Ital. bor. et New Jersey Amer. bor.

2. **Hainesia tremellina** Sacc. Mich. II. p. 168, F. it. t. 1039. — Acervulis 3657 hypophyllis, discoideo-convexis, mox superficialibus, succineis, $\frac{1}{6}$ mill. diam.; conidiis fusoido-falcatis, utrinque acutis, 8-9 \approx $1\frac{1}{4}$ hyalinis, in basidiis filiformibus, 45 \approx 1, acro-pleurogenis.

Hab. in foliis emortuis *Aceris campestris*, Conegliano (Spegazzini). — Contextus tenuissimus radiatus (an genuinus?) visus est circa acervulos.

3. **Hainesia Rubi** (West.) Sacc. *Gloeosporium? Rubi* West. Exs. n. 3658 980, Sacc. F. it. t. 1024, *Tremella foliicola* Fuck. Symb. myc. p. 402. — Acervulis subcuticularibus, mox subsuperficialibus, hypophyllis, rarius epiphyllis, rubescentibus, pulvinatis, dein fuscidulis et collabascentibus; conidiis oblongis, 6-10 \approx 2-3,5; basidiis bacillaribus furcatis vel ramulosis, conidio 5-6-plo longioribus.

Hab. in foliis *Ruborum*, socio *Phragmidio* et *Uredine*, in Belgio, Italia, Gallia, Germania. — Diagnoses auctorum satis differunt, tamen eandem speciem sistere videntur.

GLOEOSPORIUM Desm. et Mont. in Ann. Sc. nat. 1849, p. 295, em. Sacc. Mich. II. p. 10 (Etym. *gloios* viscosus et *spora*). — Acervuli v. nuclei sub epidermide foliorum v. caulium nidulantes, disciformes v. pulvinati, demum sæpius erumpentes, pallidi v. fusci. Conidia ovato-oblonga, rarius oblongata, continua, hyalina, sæpe tandem in cirrum v. globulum conglutinata et erumpentia. Basidia typice bacillaria v. acicularia, fasciculata. — Sub nomine *Gloeosporrellæ* cl. Penzig egoque (Fung. Mortol. n. 132) *Gloeosporii* subgenus distinximus conidiis estipitatis notabile, sed, præsentibus speciebus conidia brevissime stipitata gerentibus, distinctio, usquedum species omnes plenius explorentur, non admittenda videtur.

I. In foliis Dicotyledonearum. 1-79

1. **Gloeosporium Martianoffianum** Thüm. Pilzfl. Sibir. n. 676. — Acervulis 3659 hypophyllis, gregariis, punctiformi-irregularibus, liberis, vix

elevatis, subdisciformibus, saturate fuscis, sine macula; conidiis clavatis, simplicibus, basi angustatis, vertice dilatatis truncatisve, enucleatis, 20-24 \times 5-6, dilute fuscescentibus; basidiis longis, inæquilateralibus v. nodulosis, subtortuosis vel inflexis, æque fuscellis.

Hab. in foliis vivis Aquilegiæ glandulosæ in monte Kerlygan Sibiriae asiaticæ. — A *Gloeosporio Aquilegiæ* Thüm. characteribus notatis differt.

2. **Gloeosporium Aquilegiæ** Thüm. Pilzfl. Sibir. n. 144. — Acervulis amphigenis, plano-subdisciformibus, griseo-fuscis, mediis, dense gregariis in macula arescendo fusco-ochroleuca, latissime fusco-marginata; conidiis simplicibus, ellipticis, utrinque obtusatis, 12-15 \times 5, achrois.

Hab. in foliis vivis Aquilegiæ glandulosæ, Minussinsk Sibiriae asiaticæ.

3. **Gloeosporium Ficiaræ** (Berk.) Cooke Handb. n. 1413, *Cylindrosporium Ficiaræ* Berk. Ann. N. H. n. 135. — Acervulis minutis, albis; conidiis inæqualiter oblongis, leviter curvis, in cirros v. grumulos albos supra folia adhuc virentia expulsis.

Hab. in foliis Ranunculi Ficiaræ, frequens, in Britannia. — A vero *Cylindrosporio Ficiaræ* scolecosporo omnino diversum videtur.

4. **Gloeosporium Hepaticæ** Peck 33 Rep. St. Mus. 26. — Maculis latis, irregularibus, sæpe totum folium decolorantibus, nigro-brunneis; pustulis minutis, sparsis, epiphyllis, cirris crassiusculis, in sicco carneis; conidiis oblongis vel cylindricis, hyalinis, utrinque obtusis, leniter curvatis, 15-25 \times 6,5-7,5, plerumque 4-nucleatis.

Hab. in foliis Hepaticæ acutilobæ in montibus Helderberg Americæ borealis.

5. **Gloeosporium Haynaldianum** Sacc. et Roum. Reliq. Libert. IV. n. 174. — Acervulis sparsis, subepidermicis, dein emergenti-prominulis, disciformibus $\frac{1}{2}$ mill. diam., sordide roseis; conidiis tereti-oblongis, utrinque subrotundatis v. acutiusculis, 12-15 \times 2,5-3 hyalinis; basidiis filiformibus fasciculatis, 31-40 \times 1, 5, hyalinis.

Hab. in foliis Magnoliæ grandifloræ, ubi maculas ochraceas generat, in Arduennis (LIBERT).

6. **Gloeosporium Hamamelidis** Cooke Hedw. XII. p. 26. — Amphigenum; maculis suborbicularibus, 1 cent. latis, atrofuligineis, hinc illinc pertusis; conidiis subellipticis, obtusis, rectis vel leniter curvatis, hyalinis, 10 \times 2,5-3.

Hab. in foliis Hamamelidis Virginicæ, in Carolina Americæ borealis.

7. **Gloeosporium concentricum** (Grev.) Berk. et Br. Ann. N. H. n. 3665 441, *Cylindrosporium concentricum* Grev. Sc. Fl. t. 27. — Acervulis minutis, albidis, concentrice dispositis, subcuticularibus; conidiis copiosis breve cylindraceis, truncatis, continuis, hyalinis, dein in grumulos minutos erumpentibus.

Hab. in foliis adhuc vivis Brassicæ in Britannia et Germania. — «Ex icone Grevillei dubia mihi species».

8. **Gloeosporium hians** Penz. et Sacc. Fung. Mortol. n. 46, tav. V. 3666 fig. 27. — Acervulis dense congregatis, majusculis, brunneis, hypodermicis, depressis, pseudo-perithecio tenui, in apice late ostiolato; conidiis oblongis, utrinque paullum attenuatis, rotundatis, eguttulatis, plasmate granuloso farctis, rectis, 19-22 \approx 8-9, basidiis simplicibus, cylindricis, continuis, hyalinis, 10-15 \approx 2-3.

Hab. in sepalis clausis (alabastris) Capparidis spinosæ, Mortola Ital. bor. (O. PENZIG).

9. **Gloeosporium phacidioides** Speg. Nov. Add. ad Myc. Ven. n. 140, 3667 et Mich. II. p. 284. — Maculis submarginalibus, semicircularibus, pallide melleis, primo parvulis, dein totum folium occupantibus, acervulis subepidermicis atris lenticularibus, 80-90 μ . diam., hypothecio crassiusculo membranaceo-fuligineo; basidiis cylindricis quandoque fumosis, apice rotundatis 10-20 \approx 3 ornato; conidiis cylindraceis utrinque rotundatis, rectis vel curvulis, granuloso-farctis, 8-10 \approx 2½-4.

Hab. in foliis Helianthemis vulgaris in pascuis alpinis Duram (Zoldo, Cadore) Italiæ bor.

10. **Gloeosporium Violæ** B. et Br. Ann. N. H. n. 1703. — Maculis 3668 pallidis, demum albis; acervulis perexiguis, solitariis; conidiis aurantiacis, dein supra folia effusis.

Hab. in foliis Violæ odoratæ, Glamis Britannicæ.

11. **Gloeosporium Tiliæ** Oud. Mat. Myc. Néer. II. p. 31, t. X. f. 20, 3669 Sacc. F. ital. t. 1054. — Maculis nullis v. obsoletis; acervulis minutissimis, fuscis, tandem apice erumpentibus; conidiis ovato-oblongis, utrinque acutatis vel obtusatis, hyalinis, continuis, 11-14 \approx 4-7, nubilosis vel guttulatis, hyalinis; basidiis subfusoides conidium dimidium superantibus.

Hab. in foliis Tiliæ grandifoliæ, T. ulmifoliæ etc. in Hollandia, Italia, Austria.

12. **Gloeosporium Aquifolii** Penz. et Sacc. F. Mont. Gen. n. 132. — 3670

Acervulis laxè gregariis, hypodermicis, vix prorumpentibus, nigris, conspicuis, pseudo-perithecio hypharum contextu parenchymatico composito, nigrescente, haud ostiolato; conidiis pseudo-perithecii parieti insertis, mucò hyalino insitis, oblongo-ellipticis, utrinque attenuatis, acutiusculis, simplicibus, hyalinis, eguttulatis, 12-14 \approx 5-6; basidiis nullis.

Hab. in foliis siccis Ilicis Aquifolii in Monte Generoso Insubriæ (O. PENZIG).

13. **Gloeosporium Hesperidearum** Catt. Sacc. F. it. t. 1186, Mic. Agrumi p. 12. — Acervulis gregariis, numerosis, sparsis in vasta macula arida foliorum vel in foliis emortuis, erumpentibus; basidiis obsoletis, fasciculatis, cylindricis, continuis, simplicibus, hyalinis vel basi dilute fuligineis, 8-12 \approx 4-5; conidiis cylindricis, utrinque rotundatis, rectis, eguttulatis, hyalinis, 14-18 \approx 5-6,5. 3671

Hab. in foliis languidis vel emortuis Citrorum, Messina Siciliae (Borzi), S. Terenzo (GIBELLI).

14. **Gloeosporium depressum** Penz. in Mich. II. p. 447, F. it. fig. 1185. — Acervulis in maculis aridis sparsis, hypodermicis, depressis, brunneolis, demum prorumpentibus; basidiis fasciculatis, simplicibus, hyalinis, filiformibus, 20-24 \approx 2-3; conidiis elongato-ellipticis, hyalinis, 7-8,5 \approx 2,5-4. 3672

Hab. in foliis languidis Citrorum, Padova (PENZIG), S. Terenzo (GIBELLI) in Italia.

15. **Gloeosporium Hendersonii** B. et Br. Ann. N. H. n. 1702. — Acervulis sparsis, hypophyllis, placentæformibus; conidiis oblongis, 12,5-15 μ . long., nucleo leniter colorato. 3673

Hab. in foliis Citri Aurantii in tepidariis in Britannia.

16. **Gloeosporium Aurantiorum** West. in Bull. de l'Ac. roy. des sc. de Belgique, 1854, p. 7, n. 19. — Maculis amphigenis, magnis, irregularibus, immarginatis, griseo-fuscis; acervulis minutis bullosis, albis; conidiis copiosissimis, ovoideis, hyalinis, subinde 2-guttulatis, in grumulos subcarneos ejectis. 3674

Hab. in foliis languidis Citri Aurantii pr. Namur Belgii (LIMMINGHE). — Ita describit speciem cl. Penzig (Mich. II. p. 447) secundum adumbrationes cl. Cattanei, ex exemplaribus belgicis desumptas: acervulis amphigenis minutis, sparsis, hypodermicis, demum erumpentibus; nucleo gelatinoso; basidiis filiformibus, tenuissimis; conidiis linearibus, utrinque obtasis, hyalinis, 3 μ . long.

17. **Gloeosporium intermedium** Sacc. F. it. tab. 1043, Mich. II. p. 118. — Acervulis gregariis, punctiformibus, nigris, dein erumpentibus, 3675

$\frac{1}{6}$ - $\frac{1}{5}$ mill. diam.; basidiis fasciculatis, subsimplicibus, continuis, basi fuligineis, 18-25 \approx 4-5; conidiis elongatis, utrinque rotundatis, rectis, hyalinis, eguttulatis, 14-18 \approx 4-6.

Hab. in foliis languidis Citri Aurantii sat frequenter in Gallia et Italia. — Inter *G. affine* et *macropus* fere medium. — Var. **subramulosum** Mich. II. p. 168, F. it. t. 1044: a typo differt basidiis simplicibus v. breviter furcatis, parce septulatis, 15-30 \approx 3-4 $\frac{1}{2}$, e strato prolifero fuscidulo oriundis; conidiis oblongis, 15-18 \approx 4-5, utrinque obtusiusculis, 3-4-guttulatis, hyalinis. In foliis emortuis Carludovicæ et Citrorum in calidariis horti patavini. — Var. **Epidendri**: basidiis, 28-30 \approx 2,5-3. In radicibus æreis Epidendri culti in Gallia. — Var. **brevipes**: basidiis 14-18 \approx 3. In foliis languentibus Fici elasticæ in calidariis in Gallia. — Var. **Poinsettiae**: conidiis oblongis utrinque rotundatis, 18-20 \approx 5-6; basidiis crassiusculis brevibus, 12-15 \approx 4, suffultis. In ramis Poinsettiae pulcherrimæ in calidariis in Gallia.

18. **Gloeosporium macropus** Sacc. Mich. I. p. 217, F. it. t. 1033. — 3676

Maculis nullis; acervulis sparsis punctiformibus, nigrescentibus; basidiis fasciculatis, elongatis, simplicibus, continuis, hyalinis, basi fuligineis, 48-60 \approx 3,5-5; conidiis elongatis, utrinque rotundatis, guttulatis, hyalinis, 18-21 \approx 4-6.

Hab. in foliis languidis Hoyæ carnosæ et Citri Aurantii in frigidariis horti patavini, in scapo florifero Aloës Hanburyanæ, Mortola Ital. bor.

19. **Gloeosporium Aceris** Cooke Grev. XII. p. 26. — Hypophyllum; 3677

maculis irregularibus, cinereo-fuligineis, hinc inde pertusis; conidiis 18 \approx 5, ellipticis, obtusis, rectis flexuosisve, hyalinis.

Hab. in foliis Aceris rubri in Carolina Amer. bor.

20. **Gloeosporium acerinum** West. Exs. n. 979, Kickx Fl. cr. Fl. II. 3678

p. 94. — Acervulis hypophyllis, fusco-rubellis, sparsis, epidermidem pallide flavidam reddentibus indeque perforantibus; conidiis subcylindricis, in cirrum pallide rubescentem erumpentibus.

Hab. in foliis Aceris Pseudoplatani in Belgio, et Aceris platanoidis, Gorizia.

21. **Gloeosporium Schweinfurthianum** Thüm. Fungi Austro-Afr. in 3679

Grev. — Acervulis epiphyllis, subgregariis, sine macula, mediis, plano-verruciformibus sublenticularibusve, dilute olivaceis, vix emerisis; conidiis longe ellipsoideis, simplicibus, utrinque subobtusatis, homogeneis, achrois, 16-18 \approx 7-8.

Hab. in foliis vivis et languidis Erodii glaucophylli in deserto ad Wadi-Dugla pr. Cairo.

22. **Gloeosporium frigidum** Sacc. Mich. II. p. 168, Fungi Ital. t. 1023. 3680

— Acervulis gregariis, amphigenis, in partibus dealbatis foliorum immersis et vix erumpentibus, subglobosis, carneis contraque lucem pellucidis; conidiis cylindræis, curvatis; utrinque rotundatis, 22-26 \approx 3 $\frac{1}{2}$ -4, minute 4-6-guttulatis, hyalinis; basidiis teretibus brevioribus, 12-15 \approx 2-2 $\frac{1}{2}$, raro sub-ramulosis suffultis.

Hab. in foliis *Evonymi japonici*, hiemis 1880 intensissimo frigore (usque -13 centigr.) necatis, in horto patavino Italiæ bor.

23. **Gloeosporium Mygindæ** Winter Contr. Myc. Lus. n. 785. — Acer- 3681

vulis sparsis, immersis, punctiformibus, parum concavis, demum denudatis, fusco-atris, 130-150 μ . lat., non maculicolis; conidiis oblongis, basin versus parum attenuatis, hyalinis, continuis, intus granulosis, seu 2-3-guttulatis, 14-21 \approx 5,3-7, basidiis simplicibus, longiusculis, hyalinis suffultis.

Hab. ad folia arida *Mygindæ pallentis* in horto botanico Coimbra Lusitaniæ.

24. **Gloeosporium ligustrinum** Sacc. F. Gall. Ser. V. n. 2177 in Mi- 3682

scell. mycol. — Maculis foliorum amphigenis rufo-ochraceis, vix marginatis, majusculis; acervulis hypophyllis gregariis subcutaneo-erumpentibus discoideis, punctiformibus, ochraceo-fuscis; conidiis anguste fusoides, leniter curvis, 12-16 \approx 1,5, minute 5-6-guttulatis, hyalinis; basidiis fasciculatis exiguis filiformibus e basi stromatica fusca cellulosa oriundis.

Hab. in foliis *Ligustri*? *Perrottetii* culti, Saintes Galliæ (BRUNAUD).

25. **Gloeosporium Rhois** (West.) Kickx Fl. crypt. Fl. II. p. 96, *Lepto-* 3683

thyrium Rhois West. Exs. II. n. 544. — Maculis griseo-brunneis, dein subplumbeis; acervulis epiphyllis, brunneis subrotundis vel inæqualibus; conidiis clavulatis, rectis curvulisve; cirro albido, obsoleto.

Hab. in foliis *Rhois* speciei in horto botanico Gand Belgii. — β . **Fuckelii** Sacc., *Leptothyrium Rhois* Fuck. Symb. myc. p. 383, t. II. f. 27: conidiis anguste fusoides, 14-15 \approx 2. In foliis emortuis *Rhois* *Cotini* et *Carpini* *Betuli* in Rhenogovia.

26. **Gloeosporium Pseudo-phoma** Penz. et Sacc. Funghi Mortol. n. 42, 3684

tab. V. fig. 25. — Acervulis gregariis, hypodermicis, demum erumpentibus, pseudo-perithecio nigerrimo, contextu parenchymatico, haud ostiolato, 180-220 μ . diam.; conidiis breviter ellipticis, utrinque rotundatis, hyalinis, 13-16 \approx 7-8, mucro abundanti obvolutis, ipsi pseudo-perithecii parieti insertis; basidiis nullis.

Hab. in ramulis siccis *Calycotomes spinosæ*, Mortola Ital. bor. (O. PENZIG).

27. **Gloeosporium Kurzeanum** Niessl F. Eur. n. 2471, Sacc. F. it. t. 3685
1020, Mich. II. p. 541. — Acervulis laxè gregariis, innato-erumpentibus, sordide fusco-roseis, minutis; conidiis oblongo-cylindraceis, $18 \approx 4$, curvulis rectisve, binucleatis hyalinis; basidiis bacillaribus conidium subæquantibus, hyalinis, e strato prolifero fuscello oriundis.

Hab. in foliis *Leguminosæ* cujusdam, Calcutta Indiæ (KURZE).

28. **Gloeosporium Cytisi** B. et Br. Ann. N. H. n. 1897, Grev. 1881, 3686
p. 49. — Maculis pallidis semel v. bis rubro-zonatis; acervulis minutis; conidiis minutis, ellipsoideis.

Hab. in foliis *Cytisi Laburni*, Glamis Britannicæ. — *Diagnosis citata fert: «perithecia» pro acervulis, sed talia in Gloeosporio non occurrunt.*

29. **Gloeosporium Patella** Penz. et Sacc. F. Mortol. n. 44. t. V. f. 26. 3687
— Acervulis gregariis, nigris, epiphyllis in foliorum maculis are-scentibus; conidiis oblongis, utrinque rotundatis, rectis vel leniter curvulis, eguttulatis, plasmate granuloso fartis, $12-16 \approx 5,5-7$; basidiis brevibus, simplicibus, continuis, hyalinis, cylindraceis, $10-13 \approx 3-3,5$.

Hab. in foliis *Hardenbergiæ ovatæ*, quæ enecat, Mortola Ital. bor. (O. PENZIG).

30. **Gloeosporium Trifolii** Peck, 33. Rep. St. Mus. p. 26. — Maculis 3688
suborbicularibus concentricè zonatis, brunneis; conidiis oblongis vel cylindricis, obtusis, simplicibus, hyalinis, $15-23 \approx 4-6,3$.

Hab. in foliis vivis *Trifolii pratensis*, Albany in America boreali.

31. **Gloeosporium Cydoniæ** Mont. Syll. Cr. n. 664, Sacc. F. it. t. 1037. 3689
— Epiphyllum, maculis irregularibus confluentibus brunneis rugulosis; acervulis dense gregariis, pallidis, punctiformibus; cirris tenuissimis niveis; conidiis cylindraceis, curvulis, $15-20 \approx 2-2\frac{1}{2}$, utrinque obtusiusculis, hyalinis, basidiis teretibus dimidio brevioribus suffultis, denique protrusis.

Hab. in foliis languidis *Cydoniæ vulgaris* in Gallia, Italia, Lusitania, Austria, Africa australi.

32. **Gloeosporium Fragariæ** (Lib.) Mont. in Kickx Fl. cr. Fl. II. p. 3690
93, *Leptothyrium Fragariæ* Lib. Exs. n. 162. — Maculis indeterminatis, rubescentibus, epiphyllis; acervulis applanatis, rugulo-

sis, nigricantibus, nitidulis (ex epidermide atrata?); nucleo griseo-
lo; conidiis cylindræis 4-5-guttulatis.

Hab. in foliis Fragariæ et Potentillæ in Gallia, Germania, Britannia, Belgio, America boreali. — « An *Marsonia Potentillæ* forma? sed conidia descripta in Kickx l. c. prorsus diversa. »

33. **Gloeosporium Sanguisorbæ** Fuck. Symb. myc. p. 368, t. I. f. 34. 3691

— Hypophyllum; acervulis (peritheciis?) erumpentibus, gregariis, in macula fusca, punctiformibus, hemisphæricis, siccis concavis, fuscis; conidiis oblongis, simplicibus, $8 \approx 4$, hyalinis.

Hab. in foliis subvivi Sanguisorbæ officinalis in Rhœnogovia et Sibiria asiatica.

34. **Gloeosporium Venetum** Speg. Mich. I. p. 477. — Maculis margi- 3692

nalibus, amorphis, maximis, vel centralibus rotundis parvulis, mel-
leis vel ochraceis, linea fusco-purpurascente cinctis; acervulis mi-
nutis, prominulis, gregariis vel solitariis, atris; conidiis elliptico-
cylindræis, $7-8 \approx 2-2\frac{1}{2}$, granulosi et guttulati, hyalinis.

Hab. ad folia viva vel languida Rubi Chamæmori, Belluno et Conegliano Italiæ borealis.

35. **Gloeosporium tubercularioides** Sacc. Mich. I. p. 130, F. it. t. 3693

1041. — Maculis nullis; acervulis minutissimis, gregariis, epider-
mide velatis, dein erumpentibus, carneolis; strato prolifero cras-
siusculo e cellulis subrotundo-angulosis, crasse 1-2-nucleatis, di-
lute ochraceis conflato; basidiis cylindræis simplicibus v. breve
verticillato-ramulosis, apice incrassatis vel rarius attenuatis re-
mote septatis hyalinis; conidiis in apice basidorum v. ramulorum
aerogenis ovato-oblongis, $12-15 \approx 5-8$, continuis, rectis curvulisve
hyalinis.

Hab. in pagina inferiore foliorum languentium Ribis aurei Berolini Germaniæ (P. MAGNUS). — Conidia solitaria in ramulis, subcapitata in apice basidorum.

36. **Gloeosporium Ribis** (Lib.) Mont. et Desm. in Kickx Fl. cr. Fl. II. 3694

p. 95, Sacc. Mich. II, p. 117. F. ital. t. 1036, *Leptothyrium Ribis*
Lib. Exs. n. 258. — Maculis orbicularibus, minutis, confluentibus,
brunneis; acervulis epiphyllis, (ob cuticulam atratam) perithecioidis,
applanatis, rufo-brunneis, intus albidis; conidiis oblongis, cur-
vulis, $10 \approx 5-6$, apice subrostratis, hyalinis.

Hab. in foliis Ribis rubri, R. nigri, R. acicularis in Gallia, Germania, Belgio, Italia, Britannia, Austria, Sibiria asiatica, Amer. bor. — In forma Ribis nigri americana adsunt coni-

dia 15-20 μ . l., hinc crassiora, parce curva v. utrinque æqualia et magis curva et tunc 25 μ . longa.

37. **Gloeosporium curvatum** Oud. Mat. Fl. Neerl. II. p. 28. — Macu- 3695
lis hypophyllis fuscescentibus; acervulis prominentibus, parvulis; conidiis mucilagine primitus obvolutis, tandem sub forma cirrorum brevium crassorum alborum erumpentibus, oblongis, fortiter curvatis sive falcatis, utrinque obtusis, 2-guttatis, hyalinis, 14-20 \approx 5-7.

Hab. in foliis Ribis nigri, Putten Hollandiæ.

38. **Gloeosporium Helicis** (Desm.) Oud. Fungi Neerl. n. 196. Sacc. 3696
F. it. t. 1026, *Cheilaria Helicis* Desm. Ann. Sc. nat. 1847, p. 27. Maculis epiphyllis, fuscis vix marginatis; acervulis lenticularibus minutis, subochraceis; conidiis oblongo-clavatis, deorsum incurvatis, intus granulosis, 22 \approx 6-7, hyalinis.

Hab. in foliis Hederæ Helicis in Gallia et Hollandia.

39. **Gloeosporium paradoxum** (De Not.) Fuck. Symb. p. 277, *Myxo-* 3697
sporium paradoxum De Not. Micr. ital. II. n. 10, *Fusarium pezizoides* Desm. XX. Not. (1852) pag. 19. — Maculis nullis v. obsoletis; acervulis disciformibus, gregariis, succineis, epidermide velatis, amphigenis; conidiis ovoideis, basi subtruncatis, 8 \approx 5-6, hyalinis, basidiis cylindræis, 12-15 \approx 6, fasciculatis, hyalinis suffultis.

Hab. in foliis Hederæ Helicis, sæpissime socio statu ejusdem ascoph. *Trochila Craterio* in Italia, Gallia, Lusitania, Belgio, Germania.

40. **Gloeosporium tineum** Sacc. Mich. I. p. 219, F. ital. t. 1055. — 3698
Maculis arescendo pallidis, variis; acervulis hypophyllis, subochraceis, epidermide velatis; conidiis cylindræis curvatis, 20-25 \approx 2 $\frac{1}{2}$ -3 $\frac{1}{2}$, guttulatis hyalinis, basidiis filiformibus 15 μ . longis, fuscidulis suffultis.

Hab. in foliis Viburni Tini, Selva (Treviso) Ital. bor.

41. **Gloeosporium Orni** Sacc. Mich. I. p. 219, F. it. tab. 1061. — Ma- 3699
culis variis arescendo subochraceis, fusco-cinctis; acervulis subcircularibus epidermide (pseudo-perithecio) nigrificata, dein rimose (?) dehiscente velatis; conidiis oblongis utrinque acutatis, 7-8 \approx 3, stipitellatis, ad medium subconstrictis, 2-nucleatis, hyalinis.

Hab. in pag. super. folior. Fraxini Orni, Covolo Italiæ bor. — Ad *Marsoniam* vergit.

42. **Gloeosporium Lychnidis** Oud. Mat. Myc. Neerl. II. pag. 29 et 3700
Aanw. I. p. 3, t. XVI. f. 2. — Maculis epiphyllis fuscescentibus;

acervulis sparsis, minutissimis, disciformibus, $\frac{1}{4}$ - $\frac{1}{5}$ mill. diam. centro dilutioribus fere-achromis, margine saturatius coloratis; conidiis clavatis, $2\frac{1}{2}$ -4-5, hic truncatis hinc rotundatis, pedicellatis, hyalinis sæpe 2-guttulatis; basidiis filiformibus conidio sesquioribus.

Hab. in foliis *Lychnidis diurnæ*, Harlemmerhout Neerlandiæ. — «An forma immatura v. abnormis *Marsoniæ Delustrei?*»

43. **Gloeosporium Kalchbrenneri** Rabenh. in Kalchbr. Szep. Gomb. II. 3701 p. 276. — Acervulis conidiorum croceis, siccitate expallentibus, nitidis, subdiaphanis, diametro (plerumque 17-18 μ .) duplo longioribus, ovatis vel (sessilibus) clavæformibus, gelatinosis, pressione in guttas quasi oleosas aureas diffluentibus.

Hab. in foliis *Inulæ ensifoliæ* in Hungaria.

44. **Gloeosporium hawaiense** Thüm. Fung. Exot. n. XVIII. in Roum. 3702 Rev. Mycol. — Acervulis epiphyllis vel amphigenis, gregariis, subdiscoideis, orbiculatis, sordide fuscis, majusculis, planis in macula irregulari vix arescendo cinerea, stellulata; basidiis brevibus, hyalinis, cylindricis; conidiis plus minusve cylindræcis, utrinque rotundato-obtusatis, rectis v. subarcuatulis, hyalinis, 14-18 \times 3,5-4,5.

Hab. in foliis vivis *Lobeliæ macrostachyæ* Insula Eahu in Archipel. Hawai Ocean. Pacif. (MANN et BRIGHAM. Com. Dr. KECK.).

45. **Gloeosporium truncatum** (Bon.) Sacc. Reliq. Lib. Ser. IV. n. 175, 3703 *Micropera truncata* Bon. Abhand. p. 133. — Acervulis erumpentibus, epidermide obscurata arcte cinctis, disco rufescenti-pallido, impolito; conidiis teretiusculis, 12-13 \times 2,5-3, hyalinis; basidiis subnullis.

Hab. in foliis *Vaccinii Vitis-idææ* in Arduennis et Guestphalia.

46. **Gloeosporium alpinum** Sacc. Mich. I. p. 130, F. it. tab. 1025. — 3704 Maculis nullis; acervulis hypophyllis, epidermide tumidula velatis, variis, sordide albis; conidiis oblongo-cylindræcis, utrinque obtusiusculis, 14-15 \times 3-4, curvulis, quandoque versus medium tenuiter constrictis, sæpius 2-nucleatis, hyalinis, basidiis brevibus oblongis fultis.

Hab. in pagina inferiore foliorum viventium *Arctostaphyli alpini* prope Innichen in Pusterthal Tyrolia (Doct. FR. THOMAS in herb. MAGNUS).

47. **Gloeosporium? succineum** Sacc. Mich. II. p. 146. — 3705 Acervulis hypophyllis, gregariis initio epidermide velatis, mox erumpenti-

superficialibus, tremelloideis, pulvinatis, succineis; basidiis dense fasciculatis oblongis crasse cylindraceis, 40-45 \approx 12-14, 2-3-septatis, apice eximie obtusiuscule papillatis; conidiis sphaericis, 15-20 μ . diam., flavo-aureis.

Hab. in pag. inf. Rhododendri chrysanthemii in M. Borus Sibiriae asiaticae. — Num conidia sint bene evoluta v. merae plasmatis guttulæ, dijudicare nequeo; ergo de genere quoque dubium restat.

48. **Gloeosporium americanum** Speg. Fungi Arg. Pug. II. pag. 36. — 3706
Maculis epiphyllis, candidis, determinatis, parvulis, 1-3 mill. diam.; acervulis minutissimis, 70-90 μ . diam., atro-olivaceis, primo epidermide tectis, dein erumpentibus; conidiis ellipticis vel subovoideis, medio vix sinuoso-constrictis, utrinque obtuse rotundatis, 10-12 \approx 4-5, hyalinis, granuloso-nubiosis.

Hab. in foliis vivis Araujæ albens, San José de Flores in Rep. Argentina.

49. **Gloeosporium affine** Sacc. Mich. I. p. 129, F. it. t. 1053. — Ma- 3707
culis arescendo dealbatis variis; acervulis sparsis, sæpe epiphyllis, initio epidermide nigricante velatis, dein cirrose erumpentibus; conidiis cylindraceo-oblongis, utrinque rotundatis, 14-20 \approx 4-6, nubiosis, hyalinis; basidiis filiformibus brevibus fultis.

Hab. in foliis coriaceis Hoyæ, Vanillæ etc. in horto botanico patavino (SACCARDO); et in foliis Orchidearum in calidario horti botanici dresdensis (P. MAGNUS).

50. **Gloeosporium sphaerelloides** Sacc. Mich. I. p. 92, F. it. t. 85. — 3708
Acervulis amphigenis, punctiformibus, initio epidermide velatis, nigris; basidiis dense fasciculatis, filiformibus, septulatis, subsimplicibus, 40-50 \approx 3-5, fuligineo-ochraceis, sursum hyalinis; conidiis ovato-oblongis, 10-12 \approx 5-6, guttulatis v. nubiosis, hyalinis.

Hab. in foliis exsiccatis Hoyæ carnosæ in horto botanico patavino, et Acaciæ Melanoxyli prope Coimbra Lusitaniæ. — **majus** Penz. Michelia II. pag. 449: acervulis amphigenis, punctiformibus, initio epidermide velatis, nigris; basidiis dense fasciculatis, subsimplicibus, filiformibus, sinuosis, septulatis, fuligineis, 40-50 μ . long., 3-3,5 μ . crassis; conidiis cylindrico-elongatis, utrinque rotundatis, hyalinis, guttulatis, 16-20 μ . long., 4-4,5 μ . crassis. In foliis delapsis Citri Aurantii in frigidariis horti patavini (O. PENZIG).

51. **Gloeosporium australe** Sp. F. Arg. Pug. III. n. 131. — Acervulis 3709
minutis, subepidermicis, pulvinato-erumpentibus, albo-pellucidis; co-

nidiis ellipticis v. elliptico-cylindræis, utrinque obtusis, 5-8 \approx 2-3, hyalinis, continuis, catenulatis, e strato prolifero hyalino oriundis.

Hab. ad folia viva *Physalidis hirsutæ* in maculis *Entylomatis australis* en la Boca del Riachuelo Argentinae. — Status microconidicus *Entylomatis australis* Speg.

52. **Gloeosporium arvense** Sacc. et Penz. Mich. II. p. 633. — Acer- 3710
vulis hypophyllis subsparis v. gregariis, tectis subochraceis, $\frac{1}{4}$
mill. diam.; conidiis oblongis, utrinque rotundatis, 8-9 \approx 3,5-4, re-
ctis, 3-guttulatis, hyalinis; basidiis fasciculatis, bacillaribus, 9-10
 \approx 2-3.

Hab. in pag. inf. foliorum languidorum *Veronicæ hederi-*
foliæ, Geneva Helvetiæ (Therry). — An diversum a *Gl. Ver-*
nicarum mihi imperfecte cognito?

53. **Gloeosporium Veronicarum** Ces. in Rabh. F. cur. 97, Bot. Zeit. 3711
1859, p. 629. — Acervulis subcutaneis..... cirris fugacibus.....
sporulis tenuissima mucilagine conglutinatis.....

Hab. in foliis subvivi *Veronicæ officinalis*, *V. hede-*
rifoliæ in Italia boreali, Rhenogovia et Belgio.

54. **Gloeosporium Mougeotii** Desm. Ann. Sc. nat. 1851, p. 296, Sacc. 3712
F. it. t. 1047. — Maculis nullis v. obsoletis; acervulis gregariis exi-
guis, erumpentibus, sordide et pallide ochraceis; conidiis oblongis,
minutis, 5 \approx 1 $\frac{1}{2}$ -2, hyalinis, brevissime stipitatis, 2-guttatis.

Hab. in foliis caulibusque *Bartsiaæ alpinæ* in M. Hohneck
Vogesorum.

55. **Gloeosporium nobile** Sacc. Mich. II. p. 153, F. it. tab. 1040. — 3713
Maculis amphigenis circularibus argillaceis, atro-marginatis, 4-5
mill. diam., acervulis immersis disciformibus, $\frac{1}{4}$ mill. diam., laxè
gregariis, subochraceis, tandem, epidermide operculatim disrupta,
detectis; conidiis fusoides, leniter curvis, 20-25 \approx 6-7, deorsum acu-
tioribus, pluriguttulatis hyalinis, basidiis bacillaribus simplicibus,
furcatisve, 45-50 \approx 2 $\frac{1}{2}$, quandoque subseptulatis suffultis.

Hab. in foliis *Lauri nobilis*, Vindobonæ Austriae (Thümen).

56. **Gloeosporium pachybasium** Sacc. Mich. II. p. 117, F. ital. t. 1058. 3714
— Acervulis pulvinatis, hypophyllis, subcutaneis, dein suberum-
pentibus, $\frac{1}{4}$ - $\frac{1}{3}$ mill. diam., e circulari angulosis, carneolis; conidiis
oblongo-ellipsoideis, 14-16 \approx 6-8, basi apiculatis, apice rotun-
datis, pluriguttulatis hyalinis, in basidiis crassis obovoideis, 15-20
 \approx 10, subquaternato-acrogenis, rarius et uno alterove conidio pleu-
rogeno.

Hab. in foliis *Buxi sempervirentis*, Montauban Galliae et

in Italia boreali. — Basidia subtetraspora, crassa, illa Hymenomycetum in memoriam revocantia!

57. **Gloeosporium Laportæ** Peck 33 Rep. St. Mus. p. 26. — Maculis 3715
orbicularibus, luteo-viridibus, centro aridis et fusco-marginatis; conidiis simplicibus, globosis v. ellipticis, hyalinis, 4-6,5 μ . longis, uni-vel binucleatis, globulum pallidum formantibus.

Hab. in foliis vivis Laportæ canadensis, Charlton America boreali.

58. **Gloeosporium nervisequum** (Fuck.) Sacc. Mich. II. p. 381, F. it. 3716
t. 1051. *Hymenula Platani* Lév. sec. Fuck., *Fusarium nervisequum* Fuck. Symb. p. 369, t. I. f. 37 (f. *Platani*). — Acervulis erumpentibus, compactis, prominulis, hypophyllis, rotundatis, ovatis oblongisve, rugulosis, in macula exarida nervisequis et nerviculis, fuscis, demum aterrimis, sæpe spurie longitudinaliter dehiscentibus; conidiis oblongo-ovatis v. obovato-piriformibus 12-15 \approx 4-6, hyalinis; basidiis bacillaribus longis, 20-25 \approx 2,5-3.

Hab. ad nervos foliorum languidorum Platani orientalis in Germania, Italia et Gallia. — A *Gloeosp. Platani* (Mont.) Oud. quocum junxeram (Mich. II. pag. 218), satis differt acervulis compactioribus, multo obscurioribus, magis prominentibus, nerviculis, basidiis longioribus 20-25 \approx 2½-3 etc. Quum cl. Montagne ad suum *Fusarium Platani* referat *Hymenulam Platani* Lév. (quam cl. Fuck. ad suum *Fus. nervisequum* duxit), de horum identitate non dubitavi; sed autopsia contrarium docuit. — Forma in foliis Quercus citatur a Fuckelio l. c. prope (Estrich Rhenogoviæ.

59. **Gloeosporium Platani** (Mont.) Oud. Mat. Myc. Neerl. II. pag. 29, 3717
Sacc. Mich. I. p. 218, F. it. t. 1059 *Fusarium Platani* Mont. Ann. 3, XI. p. 55 et Syll. Cr. n. 1000. — Hypophyllum; acervulis minutis in folio decolorato sparsis, innato-erumpentibus subhemisphaericis rufidulis; conidiis primitus pedicellatis inter formam oblongam et fusiformem admodum variis, 14-15 \approx 5-6, minute pluriguttulatis, hyalinis; basidiis filiformibus 5-6 μ . longis.

Hab. in pagina inferiore foliorum Platani occidentalis et P. orientalis in Gallia, Italia, Belgio et Hollandia.

60. **Gloeosporium Salicis** West. Herb. crypt. Belg. n. 1269. — Epi- 3718
phyllum; acervulis tectis, confluentibus, in maculis nigris sitis: cirro brevi, curvo, albo; conidiis oblongis, leniter curvatis, continuis, utrinque 1-guttulatis.

Hab. in foliis vivis Salicis albæ in Belgio et Parenzo Italiæ borealis.

61. **Gloeosporium Tremulæ** (Lib.) Pass. in Rabenh. F. E. n. 1880 et 3719 Hedw. 1874, p. 187, *Leptothyrium Tremulæ* Lib. Ex. n. 161, *Gl. Populi-albæ* β . *Tremulæ* Sacc. Mich. I. pag. 219, *Depazea frondicola* Fr. Obs. II. p. 365 (verisimillime). — Maculis cinere-scentibus oblongis v. subcircularibus, fusco-cinctis; acervulis epiphyllis v. hypophyllis, sparsis, subinde concentricis, ob epidermidem atratam perithecioideis, applanatis, olivaceo-fuscis, rugulosis, denique circumscisso-elabentibus; conidiis fusoido-botuliformibus, curvulis, 10-15 \approx 1,7-2; basidiis filiformibus, vix 5-6 μ . longis.
Hab. in foliis Populi Tremulæ in Suecia, Gallia, Italia, Austria, Germania.
62. **Gloeosporium sibiricum** Thüm. Pilzfl. Sibir. n. 493. — Acervulis 3720 hypophyllis, dense gregariis, vix emersis, plano-convexis, griseo-fuscidulis, minutis in macula fusca, late griseo-fusco-marginata, in pagina superiore spadicea, fusco-zonata; sterigmatibus brevibus, continuis, flexuosis, hyalinis, vertice obtusis; conidiis cylindræis, simplicibus, subrectis, utrinque obtusatis, anucleatis, 16 \approx 3,5-4,5 hyalinis.
Hab. in foliis vivis Populi Tremulæ prope Minussinsk Sibiricæ asiaticæ.
63. **Gloeosporium Populi-albæ** Desm. XXIV. Not. (1857) p. 3, *Lepto-* 3721 *thyrium circinans* Fuck. Symb. myc. p. 388, t. II. f. 26, *Gl. circinans* (Fuck.) Sacc. M. V. n. 966. — Acervulis cuticulâ atratâ tectis, hinc perithecioideis, atro-nitidis, rotundatis, sæpe confluentibus, siccis plicato-rugulosis, planis, in circulum magnum se gradatim augentem dispositis et maculam exaridam relinquentibus; conidiis fusiformibus, subcurvatis, continuis, hyalinis, 12-16 \approx 3-4.
Hab. in pag. sup. foliorum Populi albæ in Gallia, Lusitania, Italia, Germania.
64. **Gloeosporium Carpini** (Lib.) Desm. in Ann. Sc. nat. 1853, XX. 3722 p. 214, Sacc. F. it. tab. 1021, *Leptothyrium Carpini* Lib. Exs. n. 256. — Hypophyllum, minutissimum, rugosum, fuscum; maculis brunneo-olivaceis, irregularibus, non limitatis; pulpa albida; conidiis cylindræis, falcatis, 10-15 \approx 0,5, hyalinis.
Hab. in foliis languidis v. subvivi Carpini Betuli in Gallia, Germania, Italia boreali et Austria.
65. **Gloeosporium Robergei** Desm. Ann. Sc. nat. 1853, XX. p. 214, 3723 Sacc. F. ital. t. 1049. — Maculis subcircularibus, ochraceis, majusculis; acervulis paucis, minutis, ochraceo-fuscis, cuticulâ velatis dein erumpentibus; conidiis ellipsoideo-oblongis, 12-15 \approx 8-9, ditutissime fumosis, nubilosis.

Hab. in maculis foliorum Carpini Betuli in Gallia, Italia, Belgio.

66. **Gloeosporium Ostryæ** Thüm. Contr. myc. Lus. n. 238. — Acer- 3724
vulis epiphyllis, gregariis, minutis, sublenticularibus, nigro-fuscis
in macula arescendo ferruginea, irregulari, non limitata, subtus
dilute fusca; basidiis longis, arcuatis, dilute fuscidulis, fasciculatis;
conidiis cylindrico-ellipsoideis, utrinque rotundatis, bi-quadriguttu-
latis, subrectis vel arcuatulis, continuis, hyalinis, 5-7 = 2,5-3.

Hab. in foliis vivis Ostryæ virginicæ in horto botanico
Coimbra Lusitaniæ (MOLLER).

67. **Gloeosporium Coryli** (Desm.) Sacc. Mich. II. p. 117, F. it. tab. 3725
1019. *Cheitaria Coryli* Desm.? in Ann. Sc. nat. 1853, p. 226. —
Maculis ochraceis, epiphyllis; acervulis hypo- raro epiphyllis, in-
nato-prominulis, subgregariis, minutissimis, rotundato-oblongis, pal-
lide fuscis, dein brunneis; conidiis oblongis, utrinque rotundatis,
14-15 = 6, medio quandoque lenissime coarctatis, 2-guttatis, hya-
linis, basidiis brevissimis, obtusis, basi olivascentibus, suffultis.

Hab. in foliis languidis Coryli Avellanæ in Gallia. — Cfr.
Labrella Coryli.

68. **Gloeosporium perexiguum** Sacc. Mich. II. p. 116, F. ital. tab. 1050. 3726
— Maculis parvis, irregularibus, rufis, dein perforatis; acervulis
epiphyllis, pulvinatis, minutissimis, 100 μ . diam., mox erumpenti-
bus, subsuccineis, conidiis ellipsoideo-oblongis, 5-6 = 2-3, hyalinis.

Hab. in foliis nondum emortuis Coryli Avellanæ pr. Sain-
tes Galliæ (BRUNAUD).

69. **Gloeosporium Fuckelii** Sacc. Mich. I. pag. 218. *Gl. Fagi* Fuck. 3727
Symb. App. I. p. 52 (1877), nec *Gl. Fagi* (Desm. et Rob., 1853).
Acervulis epiphyllis in macula exarida irregulari, gregariis, mi-
nutis, planis, foliorum epidermide lacerata cinctis; conidiis lanceo-
latis, quandoque antice obtusis, rectis, continuis, hyalinis, 6-8 = 3.

Hab. in foliis adhuc vivis Fagi sivatice in Rhenogovia. —
Folia a fungillo invasa colore atro-purpureo mox inficiuntur, qua
nota species statim ex longinquo innotescit.

70. **Gloeosporium Fagi** (Desm. et Rob.) West. Not. VII. p. 12. Sacc. 3728
Fungi ital. t. 1022, Oud. Mat. Myc. Néer. II. p. 29, t. X. fig. 15,
Gloeosp. exsiccans Thüm. Symb. Mycol. Austr. I. n. 7 (1877),
non *Gloeosp. Fagi* Fuck. Symb. App. I. p. 52 (1871) [nunc *Gl.*
Fuckelii], *Labrella Fagi* Desm. et Rob. in Ann. Sc. nat. 1853,
p. 225. — Maculis subcircularibus in foliorum pagina superiore
fuscescentibus, in pagina inferiore olivaceo-virentibus, acervulis

minutis, prominulis, submelleis; conidiis oblongo-ovoideis, rarius subrhombeis, 15-20 \approx 7-8, minute 2-3-guttulatis, hyalinis, basidiis fasciculatis, cylindræis, conidii dimidiam longitudinem subæquantibus, suffultis.

Hab. in pag. inferiore foliorum Fagi silvaticæ in Gallia, Italia, Belgio, Austria.

71. **Gloeosporium quernum** Harkn. F. Calif. p. 12. — Amphigenum, 3729
in cirros minutos exsiliens; conidiis hyalinis ellipsoideis v. oblongis, 1-3 vacuolos (guttulas?) continentibus, 12-18 \approx 4-6.

Hab. in foliis gemmisque Quercus agrifoliæ, quæ arescunt, in Golden Gate Park Californiæ.

72. **Gloeosporium quercinum** West. Exs. n. 981, Kickx Fl. cr. Fl. II. p. 3730
95. — Maculis hypophyllis brunneo-virescentibus; acervulis brunneo-rubellis, epidermidem bullosam efficientibus; conidiis ovoideo-oblongis in cirrum flavo-aurantiacum ejectis, hyalinis, 5-6 \approx 2,5; basidiis bacillaribus conidium æquantibus.

Hab. in foliis languidis quercinis in Belgio, Germania et Gallia.

73. **Gloeosporium umbrinellum** B. et Br. Ann. N. H. 1866, n. 1144, 3731
t. III. f. 5. — Maculis irregularibus, angulosis minutis brunneis; conidiis oblongis, 10-15 μ . longis, 2-nucleatis, subhyalinis, in cirros pallidos irregulares denique erumpentibus; basidiis longis, sæpe furcatis.

Hab. in foliis dejectis Quercus, Batheaston Britannicæ. — Secundum Kickx et Lamb. non diversum a *Gl. quercino*; mihi tamen distinguendum videtur.

74. **Gloeosporium Betularum** Ell. et Mart. Amer. Nat. 1882, p. 1002. 3732
— Maculis badio-brunneis, subrotundis, 2-3 mill. diam., nigro-marginatis; pustulis brunneis, amphigenis, 120-140 μ . diam., dein matrice secedentibus et foveolam cupuliformem atram relinquentibus; conidiis hyalinis, obovatis, 9-10,5 \approx 6; basidiis hyalinis.

Hab. in foliis Betulæ nigræ, Betulæ lentæ, Bethlehem Americæ borealis.

75. **Gloeosporium Betulæ** (Lib.) Mont. Ann. Sc. nat. 1849, pag. 296. 3733
Sacc. F. ital. t. 1028, *Leptothyrium Betulæ* Lib. Exs. n. 163. — Maculis subcircularibus, olivascentibus v. fusco-nigricantibus; acervulis epiphyllis, depressis, atris, demum erumpentibus, epidermide in lacinias 2-4 lacerata; conidiis bacillaribus v. clavulatis, 13-16 \approx 2, hyalinis brevissime stipitatis; cirris albidis.

Hab. in pag. sup. foliorum languidorum Betulæ albæ in

Belgio, Gallia, Germania, Italia. — *Gloeosp. Betulæ* Fuck. Symb. p. 368, t. I. f. 52 eandem speciem sistit.

76. **Gloeosporium betulinum** West. Exs. n. 978 Kickx Fl. cr. Fl. II. 3734 p. 94. — Acervulis hypophyllis, rubiginosis; maculis rufo-ochraceis. in pag. infer. foliorum, sed saturatoribus et fere nigricantibus in pag. sup.; conidiis ovoideis; cirris imperfectis.

Hab. in foliis *Betulæ* albæ et *B. verrucosæ* in Belgio (WEST) et Italia bor. (PASSERINI).

77. **Gloeosporium cylindrospermum** (Bonord.) Sacc. F. it. tab. 1027, 3735 *Leptothyrium cylindrospermum* Bon., Fuck. Symb. p. 120. — Maculis epiphyllis fusco-castaneis; acervulis punctiformibus, atris, applanatis; conidiis cylindræo-fusoideis, 10-15 \approx 2½-3, rectis v. leniter curvis, hyalinis.

Hab. in foliis subvivi languidisve *Alni glutinosæ* in Germania et Italia.

78. **Gloeosporium alneum** West. Exs. n. 977, Lamb. Myc. Belg. III. 3736 Sacc. Mich. II. p. 563. — Acervulis hypophyllis punctiformibus, subochraceis epidermidem vage rubiginoso-maculantibus; conidiis ovato-oblongis, curvulis, 4-6 \approx 2-2,5; basidiis obelavatis, 8-10 \approx 1,5-2, hyalinis.

Hab. in foliis languidis *Alni glutinosæ* et *A. incanæ* in Belgio et Italia boreali.

79. **Gloeosporium leptostromoides** Sacc. et Penz. Mich. II. p. 633. — 3737 Acervulis parallelis, linearibus, 1-2 mill. long., atris, dein rimose apertis (hysterioides); conidiis teretiusculis, lenissime curvis utrinque obtusiusculis, 35-40 \approx 1,5-2, pluriguttulatis, hyalinis; basidiis filiformibus breve vage ramulosis,

Hab. in acubus *Pini maritimæ* dejectis prope Rouen Gallie (MALBRANCHE).

II. In ramis, caulibus Dicotyledonearum. 80-88

80. **Gloeosporium Riessii** Schulz. et Sacc. Micr. Slav. n. 62, Schulz. III. 3738 fung. Slav. n. 99. — Acervulis epidermide velatis, denique erumpentibus, pulvinato-applanatis, ⅓-⅓ mill. diam., albidis, intus subochraceis; conidiis allantoideis, utrinque rotundatis, vehementer curvis, 18-25 \approx 4, hyalinis; basidiis bacillaribus subæquilongis, hyalinis.

Hab. in ramis corticatis *Cydoniæ vulgaris*, pr. Vinkovec Slavoniæ.

81. **Gloeosporium phæosorum** Sacc. Mich. I. p. 260, F. ital. tab. 1038. 3739

— Acervulis ramuliculis, gregariis epidermide velatis, globosis v. oblongis, $\frac{1}{4}$ mill. diam., nigricantibus, tandem irregulariter erumpentibus; conidiis fusoides majusculis, 25-28 \approx 8, raro oblongis, chlorino-hyalinis, granulosis, basidiis, filiformibus, brevibus, quandoque furcatis fultis.

Hab. in sarmentis corticatis Ruborum prope Alençon in Gallia, (C. C. GILLET). — Æquo fere jure ad gen. *Myxosporium* duci potest.

82. **Gloeosporium tortuosum** (Thüm. et Pass.) Sacc. Mich. II. p. 117, 3740

F. ital. tab. 1031, *Fusarium tortuosum* Thüm. et Pass. Pilz. Weinst. p. 51, tab. 1031. — Acervulis sparsis, subcutaneo-erumpentibus, discoideo-oblongis, sordide griseo-rufis; conidiis cylindraceo-falcatis, utrinque rotundatis, 15-20 \approx 3, nubilosus, hyalinis, basidiis teretibus, 15 \approx 2 $\frac{1}{2}$ suffultis.

Hab. in sarmentis Vitis viniferæ in agro parmensi Italiæ (PASSERINI) et prope Rouen Galliæ (LETENDRE).

83. **Gloeosporium sarmenticum** Mont. in Castagne, Supplém., p. 58, 3741

Syll. crypt. n. 663. — Punctiforme, fuscum, maculis orbicularibus gregariis haud confluentibus; conidiis oblongo-fusiformibus guttulas binas globosas foventibus.

Hab. in sarmentis Vitis viniferæ, apud Montaud in Gallia (CASTAGNE).

84. **Gloeosporium Mollerianum** Thüm. Contr. Myc. Lusit. n. 234. — 3742

Acervulis sparsis, raro confluentibus, applanato-disciformibus, sordide fusco-purpureis, plus minusve orbiculatis, mediis; conidiis bacillari-ellipsoideis, rectis vel minime arcuatis, utrinque subobtusatis, simplicibus, uniuadrigitulatis, achrois, 14-18 \approx 4-5; basidiis fasciculatis, tenuibus, brevibus, curvatis, hyalinis.

Hab. in caulibus emortuis Phytolaccæ decandræ Choupal prope Coimbra Lusitaniæ (MOLLER).

85. **Gloeosporium valsoideum** Sacc. Mich. II. p. 381. F. it. f. 1048, 3743

Hymenula ramulorum Pass. Ancora sulla Nebbia d. Gelsi (1884) p. 3. — Acervulis erumpentibus, rufo-lutescentibus, epidermide lacerata cinctis, $\frac{3}{4}$ -1 mill. d., disco ruguloso; conidiis copiosissimis, ovoideis, vel oblongo-ovoides, 11-13 \approx 4, nubilosus, hyalinis, basidiis fasciculatis deorsum incrassatis, 18-20 \approx 4, æque nubilosus, hyalinis suffultis.

Hab. in ramulis junioribus Platani occidentalis in horto patavino, et in agro parmensi Ital. bor. (BIZZOZERO, PASSER.). — A *Gl. nervisequo* acervulis multo majoribus habituque valsoideo mox

distinguendum; characteribus internis tamen proxime cognatum. — *Myxosporium carneum* (Lib). Thüm. sistit fere formam evolutiorem speciei præsentis, utramque vero coadunare non potui.

86. **Gloeosporium angulatum** (Cooke) Sacc. *Discella angulata* Cooke 3744
F. Texas p. 142. — Gregarium, tectum, epidermidem angulato-
findens; conidiis fusoido-elongatis, hyalinis, $20 \approx 4$.

Hab. in ramis arborum, Galveston Texas Amer. bor.

87. **Gloeosporium pyrenoides** Sacc. et Malbr. Mich. II. p. 633. — 3745
Acervulis subgregariis, epidermide velatis, nigricantibus, depressis,
 $\frac{1}{3}$ - $\frac{1}{4}$ mill. diam.; conidiis cylindraco-curvis, utrinque obtusiu-
sculis, $28 \approx 4$, biguttulatis, hyalinis; basidiis fasciculatis brevibus.

Hab. in caule emortuo Libanotidis montanæ, pr, Rouen
Galliæ (MALBRANCHE). — Habitus fere pyrenomycetoideus, unde
nomen.

88. **Gloeosporium ? aurantiacum** (Link.) Sacc. *Cryptosporium auran-* 3746
tiacum Link in Wallr. Fl. cr. n. 1597. — Conidiis aurantiacis
hypophloeodeis curvis compactis, aurantiacis, sub epidermide gru-
mulos protuberantes dein irregulariter confluentes perficientibus.

Hab. ad caules exsiccatarum herb. elatiorum, Umbellifera-
rum præprimis in agro wratislaviensi (LINK).

III. In fructibus et gallis Dicotyledonearum. 89-104
1873.

89. **Gloeosporium Lindemuthianum** Sacc. et Magnus Mich. I. p. 129, F. 3747
ital. t. 1032. — Maculis epicarpicis, rarius caulo-phylogenis, sub-
rotundis, arecendo infuscatis, initio rufo-cinctis; acervulis sordide
albis in media macula epidermidem pustulatim infantibus dein
erumpentibus; sporophoris fasciculatis, cylindracois, 45-55 long.,
simplicibus; conidiis acrogenis, oblongis rectis curvulisve utrinque
subrotundatis, $15-19 \approx 3\frac{1}{2}-5\frac{1}{2}$, intus granulosi, hyalinis.

Hab. in leguminibus adhuc vivis, raro caulibus foliisque Pha-
seoli vulgaris in Germania (LINDEMUTH etc.) Italia, Gallia, Bri-
tannia, Amer. bor. frequens et noxium. — An *Septoria Legumi-*
num Desm. (non ejus var. β .) X. Not. p. 10 (1843) sistat hujus
Gloeosporii statum juvenilem, dijudicare nequeo; certe descriptio
l. c. longe abhorret. Multo propius accedit *Gloeosporium fructi-*
genum Berk.

90. **Gloeosporium Leguminis** C. et Harkn. in Grev. 1880, pag. 7. — 3748
Tectum, sparsum; conidiis ovalibus, hyalinis, in massam gelatino-
sam effluentibus, $12 \approx 6$

Hab. in leguminibus in California. — An affine *Gloeosp. Lindemuthiano*?

91. **Gloeosporium Leguminum** (C.) Sacc. *Discella leguminum* Cooke 3749
F. Texas, p. 142. — Congestum; pustulus irregularibus, maculam
nigram efformantibus, demum confluentibus; conidiis ellipticis vel
piriformibus, 1-nucleatis, hyalinis, 12-15 \approx 6.

Hab. in leguminibus *Prosopidis*, Galveston, Texas Americæ
borealis. Sub *Discula* n. 3581 quoque descripsi. — An potius af-
fine *Gl. Lindemuthiano*?

92. **Gloeosporium Capsularum** C. et Hark. in Grevillea. — Grega- 3750
rium, punctiforme, ore fisso-lacerato; conidiis cylindraceis utrin-
que obtusis, gracilibus, rectis, continuis, hyalinis, 18-20 \approx 2,5, in
grumulos pallidos mox erumpentibus.

Hab. in capsulis emortuis *Eucalypti* in California Amer. bor.

93. **Gloeosporium fructigenum** Berk. Gard. Chron. 1856, p. 245 cum 3751
icone, Sacc. F. it. t. 1042. — Acervulis concentricis, sordide ro-
seis, nunc poro simplici nunc laciniato erumpentibus, pulvinula-
tis; conidiis oblongis vel cylindraceis, sæpe curvulis, 20-30 \approx 5-6,
granulosis, hyalinis; basidiis subæquilongis, simplicibus, rarius fur-
catis, continuis suffultis.

Hab. in fructibus putridis *Piri* communis in Britannia et
Italia.

94. **Gloeosporium versicolor** B. et C. North Amer. Fungi n. 503. — 3752
Maculis reticulatis griseis, 2-3 cent. lat.; acervulis erumpentibus;
conidiis oblongis clavatisque hyalinis, nubiosis, 10 μ . longis (vel
in alio specimine, usque 20 μ . longis).

Hab. in fructibus *Mali* in Carolina infer. Amer. bor. — A
Gloeosp. fructigeno habitu omnino diversum.

95. **Gloeosporium læticolor** Berk. Gard. Chron. 1859, p. 604. — Ma- 3753
culis depressis, centro albicantibus, nigro-marginatis; acervulis cir-
cinantibus subroseis; conidiis oblongis, 16-17 μ . longis, plasmate
utrinque retracto; cirris pallide roseis.

Hab. in fructibus *Persicæ* in Britannia.

96. **Gloeosporium phomoides** Sacc. Mich. II. p. 540 et F. it. t. 1060. 3754
— Acervulis innato-erumpentibus, fuscis, pulvinatis; conidiis oblon-
go-clavatis, deorsum abrupte attenuatis, apice rotundatis, 10-12
2,5-3, biguttulatis, hyalinis; basidiis bacillaribus, fasciculatis, 20-
21 \approx 1,5, hyalinis e strato proligero celluloso fusco oriundis.

Hab. in epicarpio fructuum *Lycopersici* esculenti, Ser-
mide (Mantova) Ital. bor. (MAGNAGUTI).

97. **Gloeosporium ampelophagum** (Pass.) Sacc. Mich. I. p. 217 *Ra-* 3755
mularia ampelophaga Pass. Nebh. Moscat. 1876, *Phoma uvicola*
 Arcang. p. p., non B. et Br. — Maculis seu pustulis subcirculari-
 bus, sæpe confluentibus, baccarum epidermidem strataque cortica-
 lia occupantibus et arescendo indurantibus atque rufo- vel fuligi-
 neo-nigrificantibus, ad centrum (e conidiis exsurgentibus) griseo-
 vel roseo-pruinosis; acervulis sub epidermide nidulantibus, minutis,
 dense gregariis, strato prolifero pulvinato minute parenchymatico,
 hyalino v. dilute fumoso, cellulis superficialibus vertice breve api-
 culato sporigeris; conidiis ex oblongo ellipsoideis v. ovoideis, 5-
 6 = 2½-3½, 2-guttulatis, hyalinis.

Hab. in baccis, rarius in foliis et sarmentis adhuc vivis plu-
 rimum varietatum, præcipue fructu albo, *Vitis viniferae*, quas
 maculat, deformat, corrumpit in toto agro Veneto, copiosius in
 planitie, nec non in Gallia, Austria, Germania. — In iisdem *Gleo-*
sporii pustulis quandoque observavi *Fusisporium Zavianum* Sacc.
 F. ital. t. 44. nec non *Tuberculariam ampelophilam* Sacc. Vaj.
 Vit. l. c. pag. 494, utrumque probabiliter cum *Glocosporio* meta-
 genetice conjunctum.

98. **Gloeosporium carpogenum** Cooke in Grevillea. — Innatum, spar- 3756
 sum, cuticulâ tectum, demum perforatum; conidiis elongato-ellipti-
 cis, hyalinis, 13-18 = 3,5, in cirros albos exeuntibus.

Hab. in fructu *Æsculi californicæ* in Sierra Nevada Ca-
 liforniæ.

99. **Gloeosporium lagenarium** (Pass.) Sacc. et Roum. in Rev. Mycol. 3757
 1880, p. 201, not. 5, pl. IX. fig. 1. *Fusarium lagenarium* Pass.
 Erb. critt. ital. II. n. 148, Sacc. Myc. Ven. 1041, *Gl. reticulatum*
 Roum. ibid. p. 169-172, nec *Fusarium reticulatum* Mont. Ann.
 Sc. nat. Bot. II. XX. p. 379, pl. 16, fig. 3 (ubi conidia delinean-
 tur falcato-fusoidea, 4-guttata et dein 3-septata. — Acervulis sub-
 cutaneo-erumpentibus, sæpius circinantibus, minutis, pulvinulatis,
 subroseis; conidiis ovato-oblongis, quandoque inæquilateralibus,
 16-18 = 5-6, continuis, nubiosis, hyalinis, basidiis tereti-fusoideis,
 15-20 = 3-5, hyalinis, fasciculatis suffultis.

Hab. in epicarpio, rarius in ipso caule *Cucumeris Melo-*
nis et *Colocynthis*, Parma, Treviso, Padova in Italia bor.
 et Paris et Toulouse Galliæ, frequens et valde noxium. — *Fusa-*
sarium cyclogenum meum (Myc. Ven. p. 569 et Fung. Ven. Ser.
 V. p. 197) nil est, ut nunc opinor, nisi genuinum *Fusarium re-*
ticulatum Mont., intermixto *Glocosporio lagenario*. Nec negarem
 utrumque invicem metagenetice connexum esse.

100. **Gloeosporium Cucurbitarum** B. et Br. Linn. Trans. II. p. 68. — 3758
Maculis læte aurantiacis depressis cirriferis; conidiis clavatis, breviter stipitatis, 10-22 μ . longis.

Hab. in epicarpio Cucurbitæ, Brisbane Australiæ. — An diversum a *Gloeosp. lagenario*?

101. **Gloeosporium orbiculare** Berk. in Just. B. Jahr. 1876, p. 1274, 3759
Cytispora orbicularis Berk. Ann. N. H. n. 106, t. VII, f. 6, *Myxosporium orbiculare* Berk. Outl. p. 325. — Plagulas orbiculares formans; acervulis confluentibus uno alterove poro communi erumpentibus; conidiis exiguis, oblongis, pallide vinosis, in cirros tenues expulsis.

Hab. in fructu Cucurbitarum in Britannia.

102. **Gloeosporium epicarpium** Thüm. Symb. myc. Austr. VII. n. 70. — 3760
Maculis numerosis plus minusve orbiculatis vel ellipticis subdepresso-scutelliformibus, griseo-fuscis, exaridis, indeterminate angustaque rufo-fusco-marginatis; acervulis sparsis epidermide tectis demum perforantibus conico-pustulatis, nitide nigricantibus, minutis; conidiis fusiformibus utrinque subacutatis, 12 \approx 4,5, vel curvato-ellipsoideis, utrinque subrotundatis, 12 \approx 6-7, semper 3-guttulatis, guttulis magnis, hyalinis; basidiis fasciculatis, hyalinis, cylindricis, brevibus.

Hab. in epicarpio adhuc vivo Juglandis regiæ pr. Tolmino in Istria (BOLLE).

103. **Gloeosporium conigenum** Sacc. et Roum. Mich. II. p. 633. — 3761
Acervulis subcutaneis, denique rimose parce erumpentibus, intus subolivaceis; conidiis globulosis, 5-6 \approx 4, basi subattenuatis, hyalinis, basidiis teretibus, 15 \approx 3-3½, apice rotundatis suffultis e basi sporigera cellulosa dilute lutescente oriundis.

Hab. in squamis strobilorum Abietis excelsæ in Arduennis (LIBERT).

104. **Gloeosporium Gallarum** Ch. Rich. in Roum. Rev. Myc. II. p. 91. 3762
Maculis irregularibus, latis, confluentibus, nigris, nitidis, rugulosis; acervulis conicis, punctiformibus; cirris niveis; conidiis albis, cylindricis utrinque obtusis, 14 μ . long., basidiis inæqualibus suffultis, 3-5-guttulatis.

Hab. in gallis quercinis, Saint-Amand Galliæ.

IV. In Monocotyledoneis et Acotyledoneis.

105. **Gloeosporium punctiforme** Sacc. et Ell. Mich. II. p. 574. — Acer- 3763
vulis laxè gregariis subcutaneis, fuscis, mediocribus, ½ mill. diam.,

centro epidermidem perforantibus; conidiis ovato-oblongis, biguttulatis, hyalinis, $5-6 \approx 3-3,5$; basidiis e strato prolifero celluloso stramineo-fuligineo oriundis, acicularibus, $15-20 \approx 2$, guttulatis, hyalinis.

Hab. in foliis languidis *Phormii tenacis* pr. Philadelphiam Amer. bor. (ELLIS).

106. **Gloeosporium lineolatum** Sacc. Mich. II. p. 146, F. it. t. 1045. 3764

— Acervulis parallele digestis, sublirelliformibus, erumpentibus, $\frac{1}{2}$ mill. long. $\frac{1}{8}$ mill. cr., nigris; conidiis cylindraco-falcatis, utrinque obtusiusculis, $25 \approx 3\frac{1}{2}-4$, hyalinis, basidiis brevibus, bacillaribus e basi prolifera fuliginea oriundis suffultis.

Hab. in foliis *Xerotis longifoliæ* ex Nova Hollandia (herb. horti patav.).

107. **Gloeosporium cinctum** B. et C. North Am. Fungi n. 504. — 3765

Acervulis minutis gregariis epidermide nigrificata cinctis; conidiis oblongis utrinque obtusis, subinde curvulis, intus granulosus, $10-15 \approx 2\frac{1}{2}-3$.

Hab. in Orchideis in calidario cultis, Massachusetts Americæ borealis (RUSSELL).

108. **Gloeosporium Thümenii** Sacc. *Gloeosp. concentricum* Thüm. 3766

Contr. Fungh. Lit. n. 258, nec Berk. et Br. — Acervulis epiphyllis, concentricè dispositis, gregariis, lenticularibus, griseo-fuscidulis, submagnis, in macula plus minusve sinuosa, arescendo dilute ochracea, indistincte zonata, late viridi-griseo-cincta; basidiis fasciculatis, brevibus, flexuosis, clavato-cylindracois, apice obtusis, hyalinis; conidiis clavatis, utrinque rotundato-truncatis, vertice angustatis, grosse bi-guttulatis, $12-15 \approx 5-6$ hyalinis.

Hab. in foliis vivis *Alocasiæ cucullatæ* in calidariis Strazig. in Littorali austriaco.

109. **Gloeosporium Phægopteridis** Pass. Micr. ital. bor. n. 17 in Roum. 3767

Rev. mycol. — Maculis irregularibus sordide luteis; acervulis minimis epiphyllis, fila candida, longa cirrosa ejicientibus; conidiis oblongis, crasse fusiformibus, attenuato-stipitatis, rectis vel basi curvis, integris, hyalinis, episporio tenui, endoplasmate eximie granuloso, $28-40 \approx 10-11$, (dempto basidio).

Hab. ad frondes *Polypodii Phægopteridis* in Apennino parmensi (Lago santo) Ital. bor.

110. **Gloeosporium Pteridis** Harkn. F. Calif. p. 12. — Hypophylla, 3768

totamque frondis paginam infer. occupans, in cirros crassos exsiliens; conidiis obovatis v. ellipsoideis, hyalinis, $10-24 \approx 6-10$.

Hab. in fronde *Pteridis aquilinæ*, Berkeley Californiæ. — Frondem contortam reddit.

MYXOSPORIUM Link, Spec. Plant. Fungi II. pag. 99 (Etym. *myxa* mucus et *spora*). — Acervuli seu nuclei sub arborum peridermio nidulantes, perithecio carentes, sæpius madore molliusculi, pallidi v. rubentes; conidia ovoidea, hyalina v. pallide colorata. Basidia typice bacillaria.

1. **Myxosporium incarnatum** (Desm.) Bon. Handb. p. 56, Sacc. Mich. I. 3769 p. 116, F. it. t. 1073, *Nemaspora incarnata* Desm. Næm. t. VI. f. 2 (1830). — Acervulis epidermide velatis, varie extensis, appanatis v. vix tumidulis, incarnatis; conidiis obovoideis v. obpiriformibus, 15-20 = 8-10, granulosis, dilute carneis; basidiis filiformibus, 20-24 = 2, suffultis.

Hab. in ramis corticatis *Gleditschiæ Triacanthi*, *Salicis albæ*, *Rhamni* et *Populi fastigiatae* in Italia, Gallia, Germania, Belgio. — ***M. Roumegueri** Sacc. Mich. II. p. 354. Conidiis oblongo-ellipsoideis, 25-27 = 8-10, nubiosis hyalinis, basidiis teretibus 20 = 2 suffultis. A typo differt præcipue conidiis non piriformibus et paullo longioribus. — In cortice *Cytisi Laburni*, Nérac in Gallia austr. (ROUMÈGUE). Cfr. F. it. t. 1074.

2. **Myxosporium Russellii** (B. et Br.) Sacc. *Nemaspora Russellii* B. 3770 et C. North Amer. Fungi n. 497. — Acervulis gregariis, epidermide pallida ferme tectis; conidiis fusiformibus subobliquis, 10-13 μ . longis; pedicellis hyalinis conidium æquantibus.

Hab. in ramis *Robinia*, New England in Amer. septent.

3. **Myxosporium coloratum** (Peck) Sacc. *Melanconium coloratum* 3771 Peck, Torr. bot. Club. 1883, p. 74. — Acervulis minutis, leniter prominulis; stromate minuto, viridi-luteo; conidiis oblongis v. ovato-oblongis, leniter curvulis, subhyalinis, 12-15 = 7,2-8, in massam rubram expulsis.

Hab. in cortice *Liriodendri Tulipiferae* in Pennsylvania.

4. **Myxosporium Piri** Fuck. Symb. p. 399. *Cytispora Piri* Fuck. En. 3772 Nass. p. 52. — Peritheciis (?) subsenis nigris; cirris globuliformibus albis; conidiis globosis ovoideisve, 1-2-guttulatis, hyalinis, 20 = 10.

Hab. in ramis *Piri communis* in Nassovia.

5. **Myxosporium prunicolum** Sacc. et Roum. Reliq. Lib., Ser. IV. n. 3773 170, f. 49. — Acervulis laxè gregariis, subcutaneo-erumpentibus, pulvinatis, transverse oblongis, prominulis, $\frac{3}{4}$ -1 mill. d., intus ochra-

cec-fuscis; conidiis oblongo-ellipsoideis, utrinque rotundatis, $14 \approx 4$; basidiis..... non visis.

Hab. in ramis corticatis Prunorum in Arduennis (LIBERT).

6. **Myxosporium Rosæ** Fuck. Symb. myc. p. 399. — Pustulis majusculis, atris, in ostiolum conicum, obtusum, perforatum, atrum attenuatis, primo tectis, demum epidermide fissa circumdatis; gelatina fluxili, grisea; conidiis oblongo-ovatis, rectis, vel perparum curvatis, $12 \approx 4$, hyalinis.

Hab. in ramis siccis Rosæ caninæ pr. Æstrich Rhenogoviæ.

7. **Myxosporium Tulasnei** Sacc. Cfr. Syll. I. pag. 609 ut st. conid. *Diaporthes* [Chor.] *longirostris*. — Acervulis siccis, unicellularibus, sub corticis epidermide nidulantibus, demum erumpentibus, extus intusque sordide albis; conidiis lineari-oblongis, subcurvatis non guttulatis, $18-25 \approx 2,5-3$.

Hab. in ramis crassioribus corticatis Aceris Pseudoplatani in Gallia et Germania. — «An *Cryptosporium?*».

8. **Myxosporium nitidum** B. et C. North Amer. Fung. n. 501. — Acervulis gregariis, intus atris, extus aurantiacis, epidermide e conidiis oblongis minutissimis aurantiâ tectis.

Hab. in ramis Corni alternifoliæ in Virginia, New England, Pennsylvania.

9. **Myxosporium australe** Speg. Fungi Arg. Pug. IV. n. 308. — Acervulis aurantio-carneis, primo subepidermicis, dein erumpenti-superficialibus, late gregariis, orbicularibus, $0,5-1$ mill. diam., sæpius ob diffluentiam confluentibus, et matricem strato latissimo, præcipue per corticis rimas excurrente, pulchre flavo-roseo vestientibus; conidiis globosis, e mutua pressione irregulariter atque obtuse angulato-polygonis, $12-22 \approx 10-15$, hyalinis.

Hab. ad truncos et ramos vivos Colleticæ ferocis ad paludes subsalsas «Cangrejales» dictas, prope promontorium «Cabo S. Antonio» in Argentina.

10. **Myxosporium Rhois** (B. et C.) Sacc. *Nemaspora Rhoidis* B. et C. North Amer. Fungi n. 496. — Pustulis basi dilatatis, cortice arcte cinctis extus nigris, intus pallidis; conidiis oblongis hyalinis, $13-15 \approx 3,7-4$, utrinque obtusis.

Hab. in ramis Rhois, Maine Amer. bor. (J. BLAKE).

11. **Myxosporium Ulmi** (Oud.) Sacc. *Discella Ulmi* Oud. Hedw. 1883, p. 116. — Acervulis plurimis gregariis, superficiem internodiorum ultimorum ramorum annuorum occupantibus, dein, epidermide rupta, phacidioideo-emergentibus, maculas læte coloratas formanti-

bus; basidiis variæ longitudinis, exilissimis, hyalinis, simplicibus vel ramosis; conidiis hyalinis, ovalibus vel obovatis, nonnumquam obliquis, 14-16 \approx 8-9, protoplasmate exilissime granuloso repletis.

Hab. in ramulis Ulmi, Amsterdam in Hollandia.

12. **Myxosporium hypodermium** Sacc. *Cryptosporellæ hypodermiæ* 3780
st. conid. Fuck. Symb. p. 192. — Acervulis intus gelatinosis albis; cellulis simplicibus, sub epidermide nidulantibus; conidiis ovatis cum guttula oleosa magna et episporio crasso, hyalinis, 24 \approx 16, in stipitum simplicium apicibus.

Hab. in ramis corticatis siccis Ulmi campestris in Germania. — «An *Fusicoccum*?».

13. **Myxosporium populinum** Sacc. Mich. II. p. 116. — Acervulis pulvinatis, epidermide tumidula velatis, 1-2 mill. diam., aurantiacis; conidiis subglobosis v. ellipsoideis, 13-15 \approx 10-11, basi subapiculatis, nubiosis, hyalinis, basidiis filiformibus 15-25 \approx 1½ suffultis.

Hab. in ramis Populi fastigiatae prope Rouen Galliae (LE-TENDRE). — Cfr. F. ital. fig. 1075.

14. **Myxosporium Ellisii** Sacc. *Melanconium hyalinum* Ellis, in Torr. 3782
bot. Club. vol. IX. n. 11, p. 135. — Acervulis subpellucidis inter fissuras corticales nascentibus; conidiis ovato-piriformibus, 11-13 \approx 7,5-8.

Hab. in ramis Populi italicae, Decorah, Iowa, Amer. sept.

15. **Myxosporium Tremulae** Sacc. et Roum. Reliq. Libert. Ser. IV. n. 3783
171. f. 50. — Acervulis laxè gregariis, subcutaneo-erumpentibus, intus succineis, ¾ mill. diam.; conidiis fusoides, utrinque acutis, rectis, 10 \approx 2,5, hyalinis.

Hab. in ramis corticatis Populi tremulae in Arduennis.

16. **Myxosporium Populi-tremulae** (Lamb.) Sacc. *Gloeosporium Populi-tremulae* 3784
Lamb. Fl. myc. Belg. III. p. 181. — Acervulis minutis, albidis, epidermide demum scissa tectis; conidiis ovali-oblongis, continuis, pedicellatis, dein in cirrum albidum exsurgentibus.

Hab. in ramis dejectis Populi tremulae pr. Verviers Belgii.

17. **Myxosporium salicinum** Sacc. et Roum. Reliq. myc. Lib. Ser. IV. 3885
n. 164, f. 52. — Acervulis gregariis subcutaneis, disciformibus depressis, ¾ mill. diam., intus subsuccineis; conidiis breve fusoides 12-14 \approx 4, subinde inæquilateralibus, utrinque obtusiusculis, granulosis, hyalinis.

Hab. in ramulis salicinis in Arduennis (LIBERT).

18. **Myxosporium salicellum** Sacc. et Roum. Reliq. myc. Lib. Ser. 3786
IV. n. 165. — Acervulis gregariis pulvinatis, subcutaneo-erumpen-

tibus, prominulis, vix $\frac{1}{2}$ mill. diam., intus albo-ceraceis, farctis; conidiis tereti-oblongis, utrinque obtusis, 10-12 \approx 2, rectis, hyalinis.

Hab. in ramulis salicinis in Arduennis (LIBERT).

19. **Myxosporium Millardetianum** Sacc. et Roum. Reliq. myc. Libert. 3787

Ser. IV. n. 166, f. 51. — Acervulis globoso-depressis, gregariis, $\frac{1}{2}$ mill. d., subinde linea nigrescente (*diaporthoidea*) cinctis, intus succineis; conidiis oblongo-fusoideis, utrinque obtusiusculis, rectis, 10-11 \approx 3,5, hyalinis; basidiis brevissimis.

Hab. in ramulis salicinis in Arduennis (LIBERT).

20. **Myxosporium deplanatum** (Lib.) Sacc. Mich. II. p. 354, *Didymo-* 3788

sporium deplanatum Lib. Exs. ined. — Acervulis circularibus subepidermicis, carnosulis, subolivaceis, nigro-limitatis; conidiis tereti-ellipticis, utrinque obtusiusculis, 10-14 \approx 3-4, continuis (rarissime uniseptatis), fumose hyalinis.

Hab. in ramulis emortuis Carpini Betuli et Coryli Avellanæ in Arduennis (LIBERT). — An stat. conid. *Anthostomelleæ nitidulæ* Sacc.?

21. **Myxosporium sulphureum** Sacc. *Diaporthes* (Chorostates) *sul-* 3789

phureæ st. conid. Fuck. Symb. p. 126, Sacc. Syll. I. p. 625. — Acervulis sub corticis epidermide nidulantibus, latissime conicis, orbicularibus, 2-2 $\frac{1}{2}$ mill. latis gelatina grisea, homogenea repletis, disco centrali, erumpente, orbiculari, applanato seu valde convexo, pulverulento, amœne flavo, demum perforato et massa gelatinosa, diaphana, fusca, expulsa; conidiis late fusiformibus, quandoque inæquilateralibus, continuis, 1-2-guttulatis, 12-16 \approx 5-6, hyalinis.

Hab. in ramis corticatis Coryli Avellanæ in Germania, Helvetia, Gallia et Italia.

22. **Myxosporium fuscum** Bon. Abh. Geb. d. Myk. II. p. 128. — Acervu- 3790

lis subconvexis, ostiolo simplici pertusis; sacculis rotundis, lentiformibus, dilute fuscis, muco pallido farctis, papilla conica epidermidem perforantibus; conidiis ovatis, minoribus et majoribus mixtis.

Hab. in ramis siccis Coryli in Germania.

23. **Myxosporium Marchandianum** Sacc. et Roum. Reliq. myc. Lib. 3791

Ser. IV. n. 169, f. 54. — Acervulis gregariis, subcutaneo-erumpentibus, intus sordide roseis, 1 mill. diam.; conidiis oblongo-ellipsoideis, utrinque rotundatis, 12-13 \approx 4, hyalinis.

Hab. in ramis corticatis Coryli (ut videtur) in Arduennis (LIBERT). — β . **quercinum** S. et R. l. c.: acervulis extus fuscis, intus sordide roseis; conidiis 12-14 \approx 3. In ramis quercinis in Arduennis (LIBERT).

24. **Myxosporium album** (Pr.) Sacc. *Nemaspora alba* Pr. F. Ho- 3792
yersw. n. 323. — Acervulis (peritheciis?) difformibus, membrana-
ceo-tenuibus, apice papillatis, pertusis, in cortice immersis; nucleo
candido; basidiis brevibus; conidiis ovatis, guttulatis.
Hab. in ramis exsiccatis Coryli, Hoyerswerda. — «An *Fu-*
sicocum?».
25. **Myxosporium griseum** (Per.) Sacc. *Cylispora grisea* Pers. Syn. 3793
p. 110, Corda Ic. III. p. 26, f. 68. — Acervulis subcutaneis depres-
so-conicis, carnosis, pallidis; conidiis oblongis hyalinis, granulosis,
22-25 = 8-9; basidiis filiformibus, ramulosis, continuis, hyalinis.
Hab. in ramulis Coryli Avellanæ in Germania, Bohemia
et Anglia.
26. **Myxosporium carneum** Lib. Exs. ined. n. 882, Thüm. Hedw. 1880, 3794
p. 180, Sacc. F. it. t. 1076. — Acervulis subcutaneo-erumpenti-
bus, pulvinatis, subroseis, majusculis, epidermide demum cinctis;
conidiis fusoides, utrinque obtusiusculis, subinde inæquilateris, 15-
17 = 3,5-4,5, hyalinis, 2-guttatis; basidiis acicularibus, deorsum
incrassatis, 15 = 2,5-3.
Hab. in ramis corticatis Fagi in Arduennis (LIBERT). — β . **sti-**
cticum Karst. Symb. XV. p. 159: acervulis elongatis, rarius el-
lipsoideis v. orbicularibus, peridermio demum rima longitudinali
dehiscente tectis, applanatis, flavidis; conidiis elongatis v. oblon-
gatis, rectis, 9-11 = 2-3. — Ad ramos Fraxini excelsioris
prope Mustiala Fenniae.
27. **Myxosporium minutulum** Sacc. Fungi Ven. Ser. V. n. 269 (*Micro-* 3795
pera), — Acervulis e cortice transverse rimose erumpentibus, vix
 $\frac{1}{2}$ mill. latis, pallide carneis, inferne lutescentibus; conidiis fusoi-
deis utrinque acutis, 15-16 = 4, rectis vel raro lenissime curvis,
2-4-guttulatis, hyalinis, in basidiis filiformibus brevibus acrogenis.
Hab. in cortice Castaneæ vescae. Selva (Treviso) Ital. bor.
28. **Myxosporium Taleola** Sacc. *Diaporthes* (Chrost.) *Taleole* st. ma- 3796
croconid. Fuck. Symb. App. I. pag. 312. — Acervulis suborbicu-
laribus planiusculis, carnosulis, intus roseolis; conidiis ovato-el-
lipsoideis, utrinque obtusiusculis plerumque rectis, 16 = 8.
Hab. in ramis quercinis in Rhenogovia.
29. **Myxosporium Lanceola** Sacc. et Roum. Reliq. myc. Lib. Ser. IV. 3797
n. 168, f. 48. — Acervulis gregariis, subcutaneo-erumpentibus, pul-
vinatis, 1 mill. d., nucleo subcarneo fusco-cincto, disco pallido; co-
nidiis fusoides utrinque acutis, rectis curvulisve, 20-22 = 4, intus
granulosis, hyalinis; basidiis bacillaribus dimidio brevioribus.

Hab. in ramis corticatis *Quercus*, *Betulæ* in Arduennis (LIBERT).

30. **Myxosporium ovatum** (Pr.) Sacc. *Nemaspora ovata* Pr. F. Hoyer- 3798
 yersw. n. 328. — Stromate partito, atro, corneo, irregulariter conico; papillis atris; peritheciis (nucleis?) labyrinthiformibus, confluentibus, albis; pulpa alba; basidiis filiformibus; conidiis ovatis, subapiculatis, hyalinis albis.

Hab. in cortice *Betulæ*, Hoyerswerda. — «An *Fusicoccum*?»

31. **Myxosporium viride** (B. et C.) Sacc. *Nemaspora viridis* B. et C. 3799
 North Amer. Fungi n. 498. — Acervulis truncatis prominentibus; conidiis viridulis, intus granulosis ellipticis v. elliptico-oblongis, 15 ≈ 7, e pedicellis elongatis hyalinis oriundis.

Hab. in ramis *Betulæ* in America boreali.

32. **Myxosporium tumidum** (Bon.) Sacc. *Achroomyces tumidus* Bo- 3800
 nord. Handb. p. 135, fig. 231. — Acervulis albidis carnosulis. 2 mill. cr., depressis, epidermide tectis dein laciniatum scissa cinctis; basi sporigera minute cellulosa; basidiis initio fasciculatis, septatis, pluries ramosis, apicibus rotundatis, dein acutatis conidia-que cylindræa 3-guttata gerentibus.

Hab. in ramis *Betule* in Germania.

33. **Myxosporium bellulum** (Pr.) Sacc. *Nemaspora bellula* Pr. F. Hoyer- 3801
 yersw. n. 33. — Acervulis conicis corticem tollentibus; stromate simplici centro columellam magnam conicam fuscam apice nigram efficiente; nucleo pulposo, albo; basidiis continuis, filiformibus, sæpe furcatis; conidiis oblongis, pellucidis, albis; episporio hyalino, basi hylo instructo, nucleo turbido.

Hab. in ramis alneis, Hoyerswerda.

34. **Myxosporium brachysporum** (B. et C.) Sacc. *Nemaspora bra- 3802*
chyspora B. et C. North Amer. Fungi n. 499. — Acervulis elevatis, obtusis, sparsis, liberis; conidiis curvulis reniformibus, 15 ≈ 7.

Hab. in corticibus in America boreali.

35. **Myxosporium macrosporum** Dur. et Mont. Flore Alger. I. p. 331, 3803
 Mont. Syll, n. 1109. — Acervulis punctiformibus, albidis, tremelloideis; conidiis magnis, oblongis, hyalinis, muco concolore conglobatis, 40 ≈ 10-15, levibus.

Hab. ad folia *Citri Aurantii* locis humidis delapsa in Monte Bou-Zarèah, prope Alger. (DURIEU). — «An potius *Glæosporium*?».

36. **Myxosporium croceum** (Pers.) Link Sp. pl. Fungi II. pag. 99, 3804
 Corda Ic. fung. I. p. 1, fig. 6, *Nemaspora crocea* Pers. Syn.

p. 109? Desm. Næm. t. VI. fig. 3. — Acervulis erumpentibus nudisve, aurantiacis, nitidis; cirris confertis inæqualibus flavo-croceis; conidiis subrotundis concoloribus, mucō conglutinatis, 20-24 μ . diam. intus granulosi.

Hab. in ramulis dejectis corticatis v. decorticatis Fagi, *Quercus lusitanicæ*, et in cortice arborum variarum in Britannia, Gallia, Italia, Lusitania, Austria et Amer sept. — Dubium est mihi speciem hanc, saltem italicam, nil esse nisi *Enteridii* statum immaturum. Cfr. Mich. I. p. 434.

37. **Myxosporium dracænicolum** B. et Br. Ann. N. H. n. 1896. — 3805
Acervulis aurantiacis; conidiis ovoideis subhyalinis, 8,5 = 5.

Hab. in foliis *Dracænæ* cultæ in Britannia et valde noxium. — Socia adest *Diplodina dracænicola*.

38. **Myxosporium Musæ** B. et C. North Amer. Fungi n. 502. — 3806
Acervulis minutis gregariis, pallide aurantiis, dein obscurioribus minusque conspicuis; conidiis oblongis, 7-8 = 2.

Hab. in fructibus *Musæ* in Carolina super. (CURTIS).

MELANOSTROMA Corda Icon. I. p. 5, p. 85 (Etym. *melas* niger et *stroma*). — Stroma immersum planum vel discoideum, corneum, strato conidiorum diffuente tectum. Conidia continua, diaphana, in basidiis minutissimis acrogena. — Conidia valde copiosa et forte initio catenulata; sed talia videre non licuit.

1. **Melanostroma minutum** Corda Icon. Fung. I. p. 5, f. 85. — 3807
Acervulis atris, placentiformibus, strato conidiorum albo-incarnato, diffuente; conidiis minutis fusiformibus, utrinque acutis, diaphanis.

Hab. in ramulis arborum, Prag Bohemiæ.

2. **Melanostroma fusarioides** Corda in Sturm. Crypt. III. f. 61. — 3808
Acervulis stictiformibus, subcutaneo-erumpentibus, dein subpezizoideis, atris; conidiis cylindræis, utrinque obtusis, hyalinis, 11-12 = 3, stratum album subgelatinosum supra stroma formantibus; basidiis perexiguis papilliformibus.

Hab. in ramis corticatis *Salicum* prope Karlstein Bohemiæ, et in petiolis foliorum *Populi* in Thuringia (FLEISCHHAK).

HYPODERMIUM Link Spec. Pl. Fung. II. p. 88 (Etym. *hypo* sub et *derma*), *Schizoderma* Fr. Orb. I. p. 194, nec Auct. — Acervuli subcutaneo-erumpentes, sæpe elongati, atrii. Conidia ovato-oblonga continua, hyalina in catenulas sat longas digesta, ex strato proligero

celluloso olivaceo-fusco oriunda. — Fructificatio in plerisque speciebus nondum mihi rite cognita.

1. **Hypodermium sparsum** Link Sp. pl. Fungi II. p. 88, *Schizoderma* 3809
sparsum (Link) Duby Bot. gall. II. p. 885. — Acervulis subcutaneo-erumpentibus, oblongis, pulvinatis, atris, epidermide scissa cinctis; conidiis ovato-oblongis, 10-20 \approx 6-8, utrinque obtusiusculis, 4-6-guttulatis, hyalinis in catenulas sat longas digestis, ex strato prolifero celluloso, olivaceo-fusco oriundis.

Hab. in foliis Pini silvestris et Abietum in Gallia et Germania.

2. **Hypodermium sulcigenum** Link Sp. Pl. Fungi II. p. 88, *Schizoderma* 3810
sulcigenum Duby Bot. gall. II. p. 885. — Acervulis linearibus oblongisque, primum epidermide elevata tectis, dein epidermide rupta sulcos replentibus fuscis.

Hab. ad folia viva et sicca Pini silvestris, P. pumilionis, P. maritimæ in Gallia, Germania et Italia bor. — Epidermis dein rumpitur et fovea oritur, tandem ad 20 mill. longa, intus conidia conglomerata continens.

3. **Hypodermium nervisequum** Link Sp. Pl. Fungi II. p. 89, *Schizoderma* 3811
nervisequum Duby Bot. gall. II. p. 885. — Acervulis linearibus nervisequis hypogenis initio epidermide nitida tectis dein erumpentibus; conidiis ad latus acervuli frequenter sparsis.

Hab. ad folia Abietum in Alsatia (NESTLER).

4. **Hypodermium Schizoderma** Sacc., *Schizoderma hypodermoides* 3812
Kunze in Fic. Fl. Dresd. II. p. 310. — Acervulis minutis, oblongis, subdiscoideis, atris, erumpentibus, subpulveraceis; conidiis subglobosis.

Hab. in asseribus vetustis in Germania.

5. **Hypodermium effusum** Schw. Syn. Amer. bor. n. 2956. — Acervulis 3813
tenuibus effusis, folium plerumque transversim maculantibus, nigrofuscis.

Hab. in foliis dejectis Pini Strobi, Bethlehem Amer. bor.

MYXOSPORELLA Sacc. Mich. II. p. 381 (Etym. a *Myxosporio*, cui analogum genus). — Acervuli subcutanei, vix erumpentes, subgelatinosi, perithecio carentes, læte colorati. Conidia ovata vel oblonga, continua diaphana, in catenulas digesta basidiisque teretiusculis suffulta. — Est quasi *Myxosporium*, conidiis vero catenulatis, nec solitariis.

1. **Myxosporella miniata** Sacc. Mich. II. p. 381, F. ital. tab. 1072. 3814
 Acervulis subcircularibus, convexiusculis, $\frac{3}{4}$ mill. d., amœne miniatis; conidiis ellipsoideis, utrinque rotundatis, 16-20 \approx 10-12, e roseo hyalinis eguttulatis, in catenulas breves sat persistenter connexis, basidiis teretiusculis, simplicibus furcatisve, parce septatis, 20-40 \approx 5-7, subroseis suffultis.

Hab. in ramulis corticatis Platani occidentalis in horto botanico patavino Ital. bor. (Bizzozero).

BLENNORIA Fr. S. M. III. p. 480 (Etym. a *blenna* mucus). — Acervuli disciformes v. pulvinati, erumpentes. Conidia cylindræa, truncata, typice longe catenulata, hyalina. Basidia typice prælonga et ramosissima, apicibus in conidia abeuntibus. — In nonnullis speciebus de conidorum catenulis nullum verbum fit; hinc incertum est, an huc vere spectent. — Ad *Agyriellam* accedit.

1. **Blennoria Buxi** Fr. Syst. Orb. I. p. 366 et S. M. III. p. 480, Sacc. 3815
 Mich. II. p. 356, F. it. t. 1092. — Acervulis amphigenis dein erumpentibus, epidermideque laciniatâ cinctis, compactiusculis, argillaceofuscis, $\frac{3}{4}$ -1 mill. d., basidiis prælongis, filiformibus, iterato dichotome ramosis, sursum in conidia cylindrica, utrinque truncata, 12-15 \approx 2 $\frac{1}{2}$ -3, biguttulata, hyalina, catenulata abeuntibus.

Hab. in foliis languidis Buxi sempervirentis in Gallia, Germania et Belgio.

2. **Blennoria Rubi** Mont. Cent. n. 37, in Ann. (1837), 2, VIII. p. 360, 3816
 et Syll. n. 1099. — E fibris lignosis canescentibus erumpens; acervulis atris punctiformibus apice planis modiceve concaviusculis; conidiis pedicellatis in gelatina sub aqua celeriter diffluenti, cylindricis minutissimis utrinque truncatis.

Hab. ad ramulos Rubi dejectos decorticatosque circa Audegavum Galliæ (Guépin). — «An conidia vere catenulata?»

3. **Blennoria alba** Preuss F. Hoyersw. n. 164. — Gregaria, alba, sub- 3817
 rotunda, minuta; stromate fusco, pulvinate, carnoso; conidiis cylindricis, parallelis assurgentibus, utrinque truncatis, pellucidis inæqualibus, guttulis oleosis repletis.

Hab. in ligno putrescente, Hoyerswerda.

4. **Blennoria Umbellulariæ** Cooke et Hark. Calif. F. in Grev. — Acer- 3818
 vulis discoideis, atris, convexis, subgregariis, erumpentibus; hyphis bis vel tri-chotomis, erectis, hyalinis; conidiis cylindræeis, terminalibus, utrinque obtusis, continuis, hyalinis, 35-40 \approx 4.

Hab. in ramis Umbellulariæ in California Amer. bor.

5. **Blennoria Rusci** Rabenh. D. Cr. Fl. n. 419. — Acervulis brunneo- 3819
atris, applanatis, subcircularibus vix 1 mill. latis, compactiusculis,
denique inæqualibus; conidiis utrinque rotundatis.

Hab. in pag. inf. rarius et in sup. Rusci aculeati in Italia superiore (RABENHORST).

6. **Blennoria novissima** Rabenh. Fungi europ. exs. n. 2698. — Acer- 3820
vulis subcutaneis, per epidermidem in tubulum productis, globosis,
atris; conidiis minutissimis, 2 = 1.

Hab. in pinnis foliorum Cycadis revolutæ senio dealbatis in horto botanico neapolitano (CESATI).

AGYRIELLA Sacc. Misc. Myc. I. p. 20. (Etym. ab *Agyrio* cui habitu similis), *Agyrium* Lib. ex parte. — Acervuli erumpentes, pulvinati, gelatinoso-indurati, nigri. Basidia prælonga, fasciculata, sursum ramosa, ramis pluries verticillato-ramulosis, hinc capitato-conidiophoris. Conidia acrogena, oblongo-cylindræa, subhyalina.

1. **Agyriella nitida** (Lib.) Sacc. *Agyrium nitidum* Lib. Cfr. Sacc. Syl- 3821
loge Fung. II. p. 317. — Acervulis majusculis nitidis, depresso-pulvinatis; basidiis 150-200 μ . longis, quandoque in fasciculos coalescentibus; conidiis subcylindræis, curvulis, 3-4 = 1/2, cum basidiis e hyalino dilutissime olivaceis.

Hab. in sarmentis Rubi in Gallia et Germania.

TRULLULA Ces. Bot. Zeit. 1852, p. 397 (Etym. a *trulla* vasculum), *Cesatia* Rabenh. in H. Myc. n. 1443, *Hormococcus* Preuss Linnæa 1852, p. 739, *Endhormidium* Auersw. Hedw. 1869, p. 89. — Acervuli subcutanei, sed mox erumpentes, discoideo-pulvinati v. conoideo-depressi, atrii, compacti, sæpe perithecioidei. Conidia oblongo-cylindræa, continua, hyalina v. olivacea, catenulata. Basidia longa, bacillaria, ramosa v. simplicia, dense fasciculata. — Species nonnullæ lignicolæ a *Melanconieis* abhorrent, sed ob intimam cum ceteris affinitatem separare nolui.

I. *Eu-Trullula*.

Basidia ramulosa vel simplicia; conidia olivacea vel fuscilla.

1. **Trullula olivascens** Sacc. Mich. I. p. 94 et II. p. 285, Fungi ital. 3822
p. 91 (*Hormococcus*). — Peritheciis (spuriis?), sparsis vel subcæspitulosis, innato-erumpentibus e globoso conoideis vertice applanatis, astomis, quandoque (collabascendo?) disciformibus, atris; basidiis dense fasciculatis filiformibus, simplicibus, furcatis vel fasci-

culato-ramosis, 25-30 \approx $1\frac{3}{4}$ -2, septulatis, hyalinis, apice in conidia cylindræa, 3-6 \approx $1\frac{1}{2}$ - $2\frac{1}{2}$, utrinque obtusa, continua, olivacea abeuntibus.

Hab. in ramis corticatis putrescentibus *Vitis viniferæ*, *Paliuri aculeati*, *Paulowniæ imperialis*, *Lauri nobilis*, *Persicæ vulgaris*, *Populi nigræ*, *Rubi imperialis*, *Citrorum* nec non in fructibus *Robiniæ* et *Paulowniæ*, Selva, Padova, Conegliano Italiæ bor. et in Argentina Amer. austr.

2. **Trullula hysteroioides** Speg. Mich. I. p. 478 (*Hormococcus*). — 3823

Acervulis ligno dealbato innatis, (initio epidermide tectis?) oblongo-hysteroiiformibus, laxe gregariis, atris, parallelis, $1-1\frac{1}{2}$ \approx $\frac{1}{4}$ - $\frac{1}{3}$ mill.; basidiis dense fasciculatis, filiformibus, ramulosis, septulatis, 40-50 2-3, fuscidulis, apice conidia catenulata, cylindræa, utrinque truncata, 3-8 \approx $2-2\frac{1}{2}$, fuscidula gerentibus.

Hab. in sarmentis putridis *Rubi fruticosi*, Conegliano Italiæ borealis.

3. **Trullula Fraxini** (Bon.) Sacc. *Cesatia Fraxini* Bon. Handb. p. 286. 3824

— Acervulis minutis, atris, erumpentibus, perithecio carentibus; conidiis cylindricis, obtusis, concatenatis, in massam griseam, subvitream ejectis.

Hab. in ramis *Fraxini* in Germania.

4. **Trullula tropica** (Auersw. et Rabenh.) Sacc. *Endhormium tropi-* 3825

cum A. et R. in Hedw. 1869, p. 89. — Acervulis ceraceis irregularibus, astomis, subcutaneo-erumpentibus, atris, rugulosis; conidiis moniliformiter catenulatis, angulato-subglobosis, fuscis, 10 μ d.

Hab. in *Podocarpo chilena* in Valdivia (W. LECHLER).

II. *Cesatia* Sacc.

Basidia simplicia; conidia hyalina.

5. **Trullula nitidula** Sacc. Mich. II. p. 285 (*Hormococcus*). — Acer- 3826

vulis pulvinatis, depressis, $\frac{1}{3}$ - $\frac{1}{2}$ mill. diam.; initio albo-griseis, dein nigricantibus, levibus, nitidulis; basidiis dense fasciculatis, bacillaribus, 150 \approx $2-2\frac{1}{2}$, continuis, deorsum subhyalinis, sursum olivaceis, cuboideo-guttulatis; conidiis ex interiore apice basidiorum catenulatiim exsiliantibus, breve cylindræeis, utrinque truncatis, 4 \approx 2, minute guttulatis, hyalinis.

Hab. in ligno *Piri Mali* et *Citri Aurantii*, Padova et Selva Italiæ bor. — In forma **Citri**, teste Penz. in Mich. II. p. 451, conidia metiuntur 3-4 \approx 2-2,5 et ex ipso apice basidiorum oriuntur.

6. **Trullula Spartii** Rabenh. in Kl. H. M. II. n. 752, *Cesatia Spartii* 3827

Rabenh. Kl. H. M. n. 1443. — Acervulis tenuissime membranaceis, entophleodeis; basidiis filiformibus, simplicibus; conidiis oblongis vel cylindræis utrinque truncatis; obtusangulis, simplicibus, hyalinis, levibus.

Hab. in ramis Spartii in agro dresdensi Germaniæ.

7. **Trullula turbinata** (B. et C.) Sacc. *Cesatia turbinata* B. et C. 33 28
North Amer. Fungi n. 505. — Acervulis minutissimis, turbinatis, basi angustioribus, apice convexis, epidermide dein rupta cinctis; basidiis fasciculatis; conidiis moniliformiter concatenatis (ut in *T. Spartii*).

Hab. in ramis Kerriæ japonicæ in Carolina inferiore.

8. **Trullula convexula** (C. et E.) Sacc. *Myxormia convexula* C. et Ellis 3829
in Grevillea. — Erumpens, atro-brunnea; acervulis orbicularibus convexis, intus olivaceis; conidiis concatenatis, minimis, ellipticis, hyalinis; 7 ≈ 4.

Hab. in ramulis junioribus Robiniæ, New Jersey Amer. bor.

9. **Trullula? conica** Preuss F. Hoyersw. n. 304 (*Hormococcus*). — 3830
Acervulis subconicis, atris, corneis, papillatis; nucleo albo; basidiis vel floccis longis, in conidia obovata continua secedentibus, albis.

Hab. ad ligna putrescentia, Hoyerswerda.

10. **Trullula heterospora** Preuss F. Hoyersw. n. 50 (*Hormococcus*). 3831
— Acervulis corneis, folio insertis, apice perforatis, fusco-atris; pulpa sporulosa per ostiolum in cirrum expulsa; basidiis vel floccis longis, in conidia cylindrica, continua secedentibus, albis.

Hab. in foliis Visci, Hoyerswerda.

III. *Hormococcus* Preuss p. p.

Basidia ramosa; conidia hyalina.

11. **Trullula Populi** Preuss F. Hoyersw. n. 48 (*Hormococcus*). — A- 3832
cervulis ovatis, seu elongatis, corneis, atris, glabris, subnitentibus, stromati insidentibus; nucleo albo, gelatinoso; basidiis vel floccis longis ramosis; conidiis cylindricis, albis, minimis, numerosissimis.

Hab. in cortice Populi, Hoyerswerda.

12. **Trullula Rosæ** Preuss F. Hoyersw. n. 49 (*Hormococcus*). — A- 3833
cervulis tenuibus, atris, in cortice gregarie insidentibus; nucleo albo, subgelatinoso; basidiis vel floccis longis, ramosis; conidiis cylindricis, albis, minimis, numerosissimis.

Hab. in cortice Rosæ, Hoyerswerda.

13. **Trullula papillata** Preuss F. Hoyersw. n. 305 (*Hormococcus*). — 3834
Acervulis ovatis corneis, atris, subcylindrico-papillatis; nucleo ro-

seo, gelatinoso; floccis conidiorum repetito-ramosis; conidiis cylindricis, albis, cum plurimis guttulis oleosis.

Hab. in caulibus herbarum majorum, Hoyerswerda.

IV. *Species dubie.*

14. **Trullula Leguminum** Ces. Bot. Zeit. 1852, pag. 287. — Acervulis conidiis obscure biseptatis. 3835

Hab. in leguminibus prope Vercelli Italiae borealis.

15. **Trullula Oreoselini** Ces. Bot. Zeit. 1852, p. 287. — Acervulis conidiis moniliformiter concatenatis. Totus caulis primitus pustulis farinaceis obtectus, quarum centrum serius perforatur. 3836

Hab. in caule Oreoselini prope Vercelli Italiae borealis.

MYXORMIA B. et Br. Ann. N. H. n. 447 (Etym. *myxa* mucus, et *hormos* catena). — Acervuli hyphis dense compactis marginati, erumpenti-superficiales, disciformi-scutellati. Conidia tereti-oblonga, per isthmos seu filamenta brevia invicem connexo-catenulata. Basidia bacillaria, septulata. — Habitus hinc *Myrothecii* illinc *Excipulæ* sed conidia catenulata.

1. **Myxormia atro-viridis** B. et Br. Ann. N. H. n. 447, t. XII. f. 9, 3837
Bon. Abhandl. II. p. 97. — Acervulis subscutellatis, erumpenti-superficialibus, sparsis, minutis, levibus, hyphis elongatis dense compactis ambientibus; basidiis filiformibus septulatis; conidiis tereti-oblongis, per isthmos tenues catenulato-connexis, sæpius 2-guttulatis, muco obductis, subolivaceis.

Hab. in foliis emortuis graminum in Britannia et in sarmentis corticatis Rubi in Alabama Amer. bor. — Catenulæ conidiorum subinde duæ ex uno basidio.

2. **Myxormia hyospila** Cooke in Grevill. XII. p. 28. — Hypophylla 3838
Hyospilam simulans; acervulis ellipticis, cinereis, stellato- v. dentato-apertis, cupuliformibus, disco nigro; conidiis concatenatis, ovalibus, hyalinis, 5 ≈ 3.

Hab. in foliis Diospyri virginianæ in Amer. sept. — «An *Trullulæ* affinior?».

BLOXAMIA B. et Br. Ann. N. H. 1854, p. 468, t. XVI, f. 17 (Etym. a cl. A. BLOXAM, botanico anglo). — Acervuli minuti, subsuperficiales, truncati, basi firmiores, atrii, apice delicati, albi et fere evanidi, hinc subexcipuliformes. Conidia subcuboidea, catenulata, intra

basidia generata. Basidia dense fasciculata, bacillaria. — *Trullulæ* præsertim *T. nitidulæ* affine genus videtur.

1. **Bloxamia truncata** B. et Br. Ann, N. H. 1854, p. 468, t. XVI. 3839
f. 17. — Acervulis punctiformibus, sæpius leniter elongatis, depressis, parietibus verticalibus, infra persistentibus, supra albis, delicatis, subevanidis; conidiis cuboideis, $3,2 \approx 2,5$, catenulatis; basidiis bacillaribus dense fasciculatis.

Hab. in ramis emortuis Ulmi, Batheaston Britannicæ.

COLLETOTRICHUM Corda in Sturm Cr. Fl. III. 3, p. 41 (Etym. *colletos* glutinatus, et *thriæ* capillus). — Acervuli innato-erumpentes, planiusculi, disciformes vel elongati, atri, setulis longis nigricantibus cincti. Conidia tereti-fusoidea, continua, hyalina, basidiis brevibus fasciculatis suffulta. — Hinc *Vermiculariæ*, illinc *Chaetostromati* affine genus.

1. **Colletotrichum glæosporioides** Penz. in Mich. II. p. 450 (*Vermicularia*) et F. Agrum. II. p. 6. — 3840
Acervulis sparsis vel laxe gregariis, subepidermicis, demum erumpentibus, depressis, atris, setulis cylindricis, apice rotundato, acervuli margine insitis, continuis vel pauciseptatis, $40-90 \approx 5-6$, atro-fuligineis; basidiis intra setulas dense fasciculatis, cylindricis, apice rotundatis, basi dilute fuligineis, continuis, $18-25 \approx 4-5$; conidiis acrogenis, cylindricis, rectis, utrinque rotundatis, hyalinis, plasmate granuloso fartis, $16-18 \approx 4-6$.

Hab. in utraque pagina foliorum Citri, rarius in ramulis languidis, frequentissima, Padova, Stra, Cattajo (O. PENZIG), Messina (BORZI), S. Terenzo, Bologna (GIBELLI). — Ob defectum perithecii genuini aptius huc, quam ad *Vermiculariam*, spectat.

2. **Colletotrichum exiguum** Penz. et Sacc. F. Mont. Gen. n. 133. — 3841
Acervulis sparsis, in maculis nigris foliorum vivorum insidentibus, hypodermicis, demum erumpentibus setulis in acervulorum margine numerosis, atro-fuligineis, continuis ex cylindræo conicis, $45-50 \approx 3,5-4$; conidiis cylindræis, rectis, utrinque rotundatis, eguttulatis, hyalinis, $10-12 \approx 3,5-4$; basidiis brevibus continuis, simplicibus hyalinis.

Hab. in foliis vivis Spirææ Arunci in Monte Generoso (O. PENZIG).

3. **Colletotrichum erumpens** Sacc. Mich. II. p. 98 (*Vermicularia*). — 3842
Peritheciis spuris gregariis innatis, dein epidermide lacerata erumpentibus, globoso-depressis, $\frac{1}{4}$ mill. diam., setulis filiformi-cuspi-

ditatis, 150 \approx 4, septulatis, atro-fuligineis parce vestitis; conidiis fusoides curvulis, 25 \approx 5, utrinque acutiusculis, nubiosis, hyalinis basidiis conicis, 15 \approx 6, fuscidulis suffultis.

Hab. in caulibus emortuis Rusci aculeati pr. Rouen Galliae (LETENDRE). — Perithecium genuinum desideratur, cum tantum adsit stratus proliger parenchymaticus ater, circulo setarum circumdatus; hinc propius *Colletotricho* quam *Vermiculariæ*.

4. **Colletotrichum Volutella** Sacc. et Malbr. Mich. II. p. 643. — 3843
Acervulis innato-erumpentibus, plano-convexiusculis, oblongis, 1½ mill. longis, ¾ mill. latis, disco griseo, setulis cuspidatis, 300 \approx 5-6, fuligineis, rectis, septatis, basi incrassatis cincto; conidiis cylindraceo-fusoides, 14-18 \approx 2,5-3,5, curvulis, 2-4 guttatis, hyalinis; basidiis obsoletis.

Hab. in caule emortuo Ulmariae, Parc de Quevilly Galliae. — Conidia subinde appendicula (basidio?) brevissima, labili aucta.

5. **Colletotrichum Lineola** Corda in Sturm D. Kr. Fl. III. 3, p. 41, 3844
tab. 21, Sacc. Mich. p. 271. — Setis nunc seriatis, nunc in pseudo-conceptaculum congregatis, cuspidatis, 60 \approx 3, fuligineis, sursum pallidioribus; conidiis fusoides, arcuatis, 25-28 \approx 3,5-4, utrinque, praecipue apice, acutis, 3-nucleatis, hyalinis, ad basim setulorum, basidiis brevissimis suffultis, nascentibus.

Hab. in foliis Andropogonis Grylli, Padova Italiae bor., et in caulibus Umbelliferarum prope Pragam Bohemiae. — Videretur status infans, perithecio carens, *Vermiculariæ*.

6. **Colletotrichum? aureum** Corda Icon. I. p. 17, t. IV. f. 231. — 3845
Acervulis minutis, aureis; setulis simplicibus, erectis, septatis, 7-8 μ . latis, supra incrassatis, aureis, diaphanis; conidiis minutis oblongis concoloribus, muco pallido immersis, 3 μ . d.

Hab. in Sphaeriaceis et Scleromycetibus variis prope Reichenberg Bohemiae. — «Vix hujus generis».

7. **Colletotrichum microspermum** Corda Ic. F. IV. p. 28, t. VI. f. 85. 3846
— Acervulis late effusis, tenuissimis, fuscis, subpruinosis; setulis simplicibus, 180 μ . longis, erectis, septatis, pallide-fuscis, supra albis; conidiis in cirros gelatinosos glaucos irregulariter conglobatis subovoideis, minutissimis intus nucleolo solitario vesiculæformi, extus strato crassiusculo gelatinoso albo-cincto, ornatis, 3-3, 5 μ . longis.

Hab. in ligno Coniferarum Reichenberg Bohemiae. — «Vix hujus loci».

PESTALOZZIELLA Sacc. et Ellis Mich. II. p. 575 (Etym. a *Pestalozzia* cui affine genus). — Acervuli subcutanei, perithicio carentes. Conidia oblonga, continua, subhyalina, apice setulis hyalinis aucta. — A *Pestalozzia*, cui analogum genus, differt conidiis continuis, subhyalinis.

1. **Pestalozziella subsessilis** Sacc. et Ellis Mich. II. p. 575. — Ma- 3847
culis minutis subcircularibus, amphigenis expallentibus, fusco-marginatis; acervulis punctiformibus epidermide velatis, pallidis; conidiis oblongis, utrinque obtusiusculis, 20-22 \approx 6,5-7, continuis, 3-guttatis, subhyalinis, apice seta filiformi, a basi 4-5-ramosa, 25 \approx 1 auctis, basi stipite brevissimo setaceo suffultis.

Hab. in foliis subvivi Geranii caroliniani, Newfield, N. J. Amer. bor. (ELLIS). — Cl. Ellis per tres annos speciem observavit conidiaque semper continua reperit. — Habitu affinis *Robillardæ depazeoidi* Sacc. (Willk. et Curr.) et *R. sessili* Sacc.

CYLINDROSPORIUM Ung. Exanth. p. 166, em. Sacc. Mich. II. p. 12, non Grev. (Etym. *cylindricus* et *spora*). — Acervuli vel nuclei subepidermici albi vel pallidi, disciformes vel subeffusi. Conidia filiformia continua, hyalina, sæpius flexuosa. — Est, meo sensu, *Glæosporium* conidiis filiformibus et ut *Entylomatis* status conidiophorus pro certo habetur.

1. **Cylindrosporium Ficariæ** Berk. in Grevillea, *Glæosporium Ficar- 3848*
riæ (Berk.) Cooke Handb. n. 1413. — Acervulis variis, epidermide velatis, applanatis; conidiis bacillaribus, curvulis, utrinque acutiusculis, flexuosis, 25-35 \approx 2½, pluriguttulatis, hyalinis.

Hab. in foliis Ficariæ ranunculoidis vivis in Britannia et Gallia.

2. **Cylindrosporium niveum** B. et Br. Ann. H. n. 1459. — Maculis 3849
numerosis, crebris, 2-4 mill. latis, sæpe confluentibus, brunneo-marginatis; conidiis candidis, oblongis, 1-septatis, 50 μ . longis, breviter pedicellatis.

Hab. in foliis Calthæ palustris, New Pitsligo Britannia.

3. **Cylindrosporium Ranunculi** (Bon.) Sacc. Mich. p. 540, *Fusidium Ra- 3850*
nunculi Bon. Handb. t. I. f. 7. — Acervulis initio subcutaneis more *Glæosporii*; conidiis demum protrusis, fili-fusiformibus, 80 \approx 2, subflexuosis, granulosis, hyalinis; intermixtis aliis crassis et brevius fusoides, 18-20 \approx 2,5-3, quandoque curvulis nubilosis, hyalinis; basidiis filiformibus apice obtusiusculis, hyalinis. — Cfr. F. it. t. 1088.

- Hab.* in foliis Ranunculi acris et bulbosi, Padova in Ital. bor. — *β.* **Calthæ.** In foliis Calthæ palustris, Saintes Galliæ.
4. **Cylindrosporium Glycyrrhizæ** Harkn. F. Calif. p. 12. — Hypo- 3851
phyllum, paginam fere totam occupans, cirrose exsiliens; conidiis
cylindricis, utrinque acutis, pluriguttulatis, 40-70 \approx 4-5.
Hab. in foliis vivis Glycyrrhizæ, Sunol Californiæ.
5. **Cylindrosporium Phaseoli** Rabenh. in Kl. Herb. Myc. II. n. 327 3852
(*Cylindrospora*).
Hab. in foliis Phaseolorum prope Dresden Germaniæ (Dia-
gnosis desideratur).
6. **Cylindrosporium microspermum** (Speg.) Sacc. Mich. II. p. 169, *Fit-* 3853
sidium microspermum Speg. Dec. Myc. p. 120. — Hypophyllum;
maculis circularibus indeterminatis, amphigenis-flavo-pallidis; acer-
vulis epidermide tumidula velatis; conidiis bacillari-fusoideis, utrin-
que acutis, 6-12 \approx $\frac{3}{4}$, hyalinis, quandoque leniter curvis, denique
emergenti-superficialibus.
Hab. ad folia viva vel languida Saxifragæ rotundifoliæ
in silva Cansiglio Italiæ bor. (SPEGAZZINI).
7. **Cylindrosporium Padi** Karst. Symb. Myc. Fenn. XV. p. 159. — 3854
Hypophyllum; maculis angulatis, subfuscis, amphigenis; acervulis
epidermide tumidula velatis; conidiis filiformibus, flexuosis, deni-
que emergenti-superficialibus, hyalinis, 48-62 \approx 2.
Hab. ad folia viva vel languida Pruni Padi, Mustiala Fenniæ.
8. **Cylindrosporium Gei** Farlow, Fl. With. Mount. p. 250. — Maculis 3855
minutis, distincte limitatis; acervulis amphigenis minutis albis e
massa densa subparenchymatica hypharum simplicium vel ramo-
sarum constantibus et ex ostiolo stromatum erumpentibus, 75-115
 \approx 3, in conidia filiformia, recta v flexa 38-110 μ . lg. desinentibus.
Hab. in foliis Gei radiati var. Peckii, Lake of the Clouds,
White Mountains Amer. bor.
9. **Cylindrosporium Filipendulæ** Thüm. Symb. Myc. austr. p. 146. — 3856
Acervulis hypophyllis, divergentibus, tenuissimis, pallidissime ochra-
ceis, sine maculis; conidiis cylindræis, longis, curvatis, utrinque
acutatis, æqualibus, obscure bi-quinque-septatis, nucleatis, 30-
35 \approx 2-3.
Hab. in foliis vivis Spirææ Filipendulæ, Klosterneuburg
Austr. infer.
10. **Cylindrosporium Myosotidis** Sacc. Mich. I. p. 533. — Acervulis 3857
epidermide velatis, applanatis, variis, ex albo luteolis; conidiis
filiformibus, curvulis, 50-55 \approx $1\frac{1}{2}$, pluriguttulatis, hyalinis.

Hab. in pag. infer. foliorum *Myosotidis palustris*, *Symphyti* et *Borraginis* pr. Rouen Galliæ (LETENDRE). — In forma *Symphyti* et *Borraginis*: conidia sunt filiformia, 40–50 \approx 1½–1⅔, subflexuosa, hyalina. — Hæ formæ sub nominibus variis *Cylindrosporæ* vel *Septoriæ* etc. occurrunt apud auctores, sed incertissime limitatæ.

11. **Cylindrosporium Scrophulariæ** Sacc. et Ellis Mich. II. p. 575. — 3858

Maculis minutis albis, late fusco-marginatis; acervulis exiguis, subepidermicis; conidiis filiformibus, curvis, 30–40 \approx 1,5–2, 3-guttulatis, hyalinis, e mycelio vage ramoso filiformi oriundis.

Hab. in foliis *Scrophulariæ nodosæ* in Pennsylvania (Doct. G. MARTIN).

12. **Cylindrosporium? australe** Speg. F. Arg. Pug. III. n. 137. — 3859

Acervulis subepidermicis, pallidis; conidiis filiformibus, rectis vel flexuosis, utrinque subattenuatis, 80–90 \approx 2–3, hyalinis, granuloso-farctis, fasciculato-penicillatim e stromatibus exeuntibus.

Hab. in maculis *Entylomatis australis* ad folia viva *Phy-salidis hirsutæ* in herbosis de la Boca del Riachuelo Argentinae. — Certe *Entylomatis australis* status macroconidicus.

13. **Cylindrosporium rhabdosporum** B. et Br. Ann. N. II. n. 1458. — 3860

Maculis orbicularibus, brunneis, amphigenis; conidiis fasciculos minutos radiatos formantibus, oblongis, leniter nodulosis, obtusis, 3-septatis, 20–50 μ . longis, subinde altero in altero superimposito.

Hab. in foliis *Plantaginis*, Glamis Britanniae (J. STEVENSON).

14. **Cylindrosporium pulveraceum** Speg. F. Arg. Pug. II. p. 39, n. 152 3861

(sub nom. *Fusidii pulveracei*). — Maculis nullis; acervulis hypophyllis, nubiloso-pulverulentis, candidis, indeterminatis, 1–3 mill. diam.; conidiis cylindræis vel rarius cylindræo-fusoideis, utrinque acutiuscule rotundatis, continuis vel medio uniseptatis, 10–20 \approx 2,5–3, hyalinis, granuloso-farctis.

Hab. ad folia viva *Polygoni acuminati* in paludosis secus Rio de la Plata.

15. **Cylindrosporium pulchrum** Speg. F. Arg. Pug. IV. n. 312. — A- 3862

acervulis minutissimis, 70–80 μ . d., primo subepidermicis, dein erumpenti-liberis, candidis, dense gregariis, hypophyllis; conidiis cylindræis, utrinque obtusiuscule rotundatis, rectis vel vix curvulis, minutis, 10–30 \approx 2–2,5, hyalinis.

Hab. in foliis vivis *Rumicis pulchri* in uliginosis herbosis, Recoleta Argentinae.

16. **Cylindrosporium Colchici** Sacc. Miscell. Myc. F. Gall. n. 2266. 3863

an *Septoria Colchici* Pass.? — Acervulis parenchymate immersis, punctiformibus, sæpius concentrice dispositis, 80–100 μ . diam., perithecio destitutis; conidiis bacillari-fusoideis hyalinis, 26–30 \approx 2–2,5, curvulis, subinde spurie 1–3-septatis (interdum multo brevioribus, 10–12 \approx 3 rectiusculis); basidiis bacillaribus varie ramosis, hyalinis.

Hab. in foliorum partibus arescendo ochraceis Colchici officinalis, Rouen Gallie (LETENDRE).

17. **Cylindrosporium veratrinum** Sacc. et Winter Hedwig. 1883, p. 14. 3864

— Acervulis minutis, innatis, seriatis, irregularibus, hyphis filiformibus, ramulosis hinc inde exserentibus conidia bacillaria, curvula, utrinque rotundata, 75–90 \approx 3,5–4,5, bi-triseptata, non constricta, hyalina, dein in grumulos candidos expulsa.

Hab. ad folia viva Veratri albi, Rigi prope Luzern Helvetie (G. WINTER).

18. **Cylindrosporium Alismacearum** Sacc. Mich. II. p. 121. — Acer- 3865

vulis punctiformibus, subcutaneis, dein suberumpentibus; conidiis bacillaribus, subcurvis, 30 \approx 1½–2, pluriguttulatis, utrinque obtusiusculis et e mycelio filiformi, vage ramuloso oriundis.

Hab. in foliis Alismatis Plantaginis, socio *Entylomate Alismacearum*, quocum metagenetice connexum est, prope Rouen Gallie (LETENDRE).

CRYPTOSPORIUM Kunze Myk. Heft. I. 1, em. Corda in Sturm Fl. Kr.

III. t. 49 (Etym. *cryptos* abditus et *spora*). — Acervuli vel nuclei figurati, discoideo-conici, peridermio tecti, centro dein erumpentes, subinde pseudo-perithecio e matrice formata inclusi, sæpius saprophyti; conidia fusoides-falcata, majuscula, continua, hyalina, typice stipitata. — Species aliquot *Cryptosporæ* spermogonia sistunt.

I. *Species ramicolæ.*

1. **Cryptosporium Neesii** Corda in Sturm Kr. Fl. III. p. 109, t. 51, 3866

Sacc. F. ital. t. 1095, *Crypt. vulgare* Fr. Syst. Myc. III. p. 482. — Acervulis subcutaneis, suberumpentibus, conico-discoideis, atro-olivaceis; conidiis fusiformibus vel cylindræco-fusiformibus, curvatis, granulosis, subhyalinis, 50 \approx 5–6, basidiis brevissimis suffultis.

Hab. in ramis emortuis Alni glutinosæ et A. incanæ in Germania, Bohemia, Italia, Gallia, Suecia. — Status conidicus *Cryptosporæ suffusæ*. — β . **betulinum** Sacc. Mich. II. p. 169, F. ital. t. 1094: a typo conidiis paullo angustioribus, nempe 50 \approx 4–5 dif-

fert; ceterum vix diversum. In ramis corticatis Betulæ albæ, Padova Ital. bor. — Absque dubio status conidiophorus *Cryptosporæ betulincæ* Tul.

2. **Cryptosporium Eucalypti** Cooke et Harkn. Grev. 1881, p. 84. — 3867
Sparsum, punctiforme, epidermide tectum; conidiis fusoideis, abrupte curvulis, hyalinis, 20 \approx 3,5.

Hab. in ramulis Eucalypti Globuli in California.

3. **Cryptosporium ferrugineum** Bon. Abhandl. Geb. d. Mykol. II. p. 130. 3868
— Acervulis rotundis, minimis, lentiformibus, mycelio ferrugineo tectis, pustulis convexis, e quibus acervulus poro pertusus, disci ad instar, erumpit; conidiis fusiformibus, utrinque acutis, diaphanis.

Hab. in ramis siccis Mori in Guestphalia.

4. **Cryptosporium Nyssæ** C. et Ellis in Grevillea. — Erumpens; pu- 3869
stulis tectis, demum epidermide laceratis, atris; conidiis lanceolatis, hyalinis, nucleatis, rectis, 20-22 \approx 5.

Hab. in ramis Nyssæ, New Jersey Amer. bor. — *Cryptosporio coronato* Fuck. peraffine.

5. **Cryptosporium oxyspermum** Schulz. et Sacc. Micr. Slav. n. 63, 3870
Schulz. Ill. Fung. Slav. n. 971. — Acervulis subcutaneo-erumpentibus, conico-obtusis, compactis, $\frac{1}{2}$ -1 mill. diam., atris, nucleo pallidiore; conidiis bacillari-fusoideis hic acutis, hinc obtusiusculis, curvulis, 43-61 \approx 3; basidiis obsoletis.

Hab. in ramis corticatis Juglandis regiæ prope Vinkovce Slavoniæ.

6. **Cryptosporium opegraphoides** Malbr. et Sacc. Mich. II. p. 120, F. 3871
ital. tab. 1093. — Acervulis sparsis, plano-pulvinatis, tectis dein erumpentibus, ambitu angulosis, $\frac{1}{2}$ mill. diam., nigris; conidiis cylindræo-bacillaribus, curvis, utrinque rotundatis, 40-45 \approx 3 $\frac{1}{2}$, nubiosis, hyalinis, basidiis teretibus dimidio brevioribus suffultis.

Hab. in ramulis corticatis Fagi silvaticæ, Brionne Galliæ (MALBRANCHE).

7. **Cryptosporium amygdalinum** Sacc. *Cryptosporellæ aureæ* stat. 3872
conidicus Sacc. Syll. I. pag. 466. — Pustulis minutis, siccis, demum epidermidem lacerantibus, intus niveis, simplicibus; conidiis oblongo-lanceolatis, continuis, inæquilateralibus, granulosis, hyalinis, 22 \approx 8.

Hab. in ramis corticatis Carpini Betuli in Germania, Gallia, Britannia et Italia. — Sec. Fuck. in acervulis primitus adsunt conidia minutissima cylindræa.

8. **Cryptosporium conicum** Bon. Abhandl. Geb. d. Mykol. II. p. 130. 3873

— Effusum, sparsum; acervulis rotundis, depressis, pallidis, intus griseis, disco rotundo, plano et ostiolo papillato, epidermide fissa arcte inclusis, erumpentibus; pustulis conicis; conidiis oblongo-fusiformibus, utrinque acutiusculis, primum guttulis globosis, seriatis notatis, hyalinis.

Hab. in ramis quercinis in Guestphalia.

9. **Cryptosporium maculans** Corda Icon. I. p. 2, f. 31. — Acervulis 3874 epidermide plicata tectis, maculæ pallidæ, luridæ insidentibus, atris; conidiis minutissimis, acuminatis, albis, diaphanis.

Hab. in ramulis emortuis Salicum rarissime in Bohemia.

10. **Cryptosporium hysterioides** Corda Icon. I. p. 2. tab. I. fig. 30. 3875 Acervulis oblongis erumpentibus, atris; conidiis oblongis, minutis, albis, 6,2–6,8 μ . lg. (subinde, teste Fuck., spurie 1-septatis); stromate maculaque nulla.

Hab. in ramulis emortuis Salicis prope Pragam in Bohemia, et Salicis viminalis in Rhenogovia.

11. **Cryptosporium coronatum** Fuck. Cfr. Syll. I. p. 468. — Acer- 3876 vulis planis, magnis, griseis, tectis, dein erumpentibus, basi anulo floccoso-radiato, albo circumdati; conidiis oblongo-fusiformibus, utrinque obtusiusculis, simplicibus, hyalinis, in basidiorum simplicium apicibus.

Hab. in ramis corticatis Populi pyramidalis in Germania, Belgio et Gallia. — Sistit statum conidicum *Cryptosporellæ populinæ*.

12. **Cryptosporium Populi** Bon. Abhandl. Geb. d. Mykol. II. p. 130. 3877 — Acervulis planis, griseis, mycelio tenuissimo, radiante coronatis, epidermide tectis; pustulis convexis, $\frac{1}{2}$ mill. latis, poro fisso apertis; conidiis albis, claris, oblongo-fusiformibus, obtusiusculis.

Hab. in ramis Populorum in Bohemia.

13. **Cryptosporium noveboracense** B. et C. North Amer. Fungi n. 395. 3878 — Pustulis (peritheciis?) deplanatis fuscis; conidiis lunatis, 25 μ . longis; basidiis vix 12 μ . longis.

Hab. in cortice Abietis in montanis New York et Markham Station in America boreali.

14. **Cryptosporium hypodermium** Auersw. in M. Willk. Sertum Fl. 3879 Hisp. p. 170. — Acervulis demum ore pertusis sub epidermide secedente nidulantibus; conidiis fixis, subfusiformibus, lunatis, utrinque obtusiusculis, hyalinis, guttulatis.

Hab. in ramis tenellis emortuis Solani Dulcamaræ in Aragonia pr. Jaca. — Format maculas parvas oblongas nigrescentes.

15. **Cryptosporium Lupini** Cooke in Grevill. — Sparsum, tectum, mi- 3880
nutum; conidiis lunatis, utrinque acutis, continuis, hyalinis, $30 \approx 4$.
Hab. in caule Lupini in California.

II. *Species foliicolæ.*

16. **Cryptosporium epiphyllum** C. et Ellis in Grevillea. — Maculis 3881
orbicularibus, fuscis; pustulis 1-3, obscurioribus, convexis; conidiis fusoides, lunatis, hyalinis, utrinque acutis, 30μ . longis.
Hab. in foliis languidis Castaneæ, New Jersey Amer. bor.
— «Potius *Phlæospora*».
17. **Cryptosporium nigrum** Bon. Abhandl. Geb. d. Mykol. II. p. 130. 3882
— Pustulis minutis, nigris, in macula fusca, poro lato apertis; sacculis minutis, rotundis, planis, fuscis; conidiis suboblongis, fusiformibus, hyalinis et subcurvatis.
Hab. in foliis vivis Juglandis in Guestphalia.
18. **Cryptosporium Mori** Fuck. Symb. Myc. p. 352. — A *Cryptosporio* 3883
Ribis differt: conidiis oblongis, vix curvatis, utrinque obtusis.
Hab. in foliis putridis Mori albæ prope Hattenheim Rheno-
govia.
19. **Cryptosporium punctiforme** Cooke et Harkn. in Grevill. 1881, 3884
p. 84. — Epiphyllum, sparsum, exiguum, punctiforme, habitu *Sphaerellæ punctiformis*; conidiis leniter curvulis, utrinque attenuatis, hyalinis, $80-90 \approx 2.2$.
Hab. in foliis Arbuti Menziesii in California.
20. **Cryptosporium falcatum** Cooke et Harkn. in Grev. 1881, p. 84. 3885
— Hypophyllum vel amphigenum, punctiforme, in plagas nebulosas aggregatum; sporophoris elongatis, falcatis; conidiis utrinque attenuatis, hyalinis, leniter curvulis, $20-23 \approx 2$, acro-pleurogenis.
Hab. in foliis Arctostaphyli in California.
21. **Cryptosporium viride** Bon. Abhandl. Geb. d. Mykol. II. p. 129. 3886
— Acervulis fusco-viridibus; conidiis longis, fusiformibus, utrinque obtusiusculis, pellucidis, subviridibus; pustulis convexis, rotundis, poro simplici apertis.
Hab. in foliis Piri Mali, Sorbi et Ægopodii in Guestphalia. — Sec. Hoffmann Ind. p. 43, species collidit cum *Cryptosporio Sorbi* Ces.
22. **Cryptosporium Ribis** Fuck. Symb. Myc. p. 111. — Acervulis.... 3887
conidiis in sporophori oblongi apice, fusiformibus, apice curvatis, hyalinis.

Hab. in foliis siccis dejectis Ribis alpini in Rhenogovia.

23. **Cryptosporium circinans** Welw. et Curr. Fungi Angol. p. 286. — 3888

Acervulis stipatis, subglobosis vel irregularibus in circulos concentricos dispositis; conidiis pallidis, subclavatis vel subfusiformibus leviter curvatis, longitudine variis, 15 μ . longis.

Hab. frequens ad folia fruticis spinosissimi e Capparidearum familia in dumetis prope Loanda Angolæ.

24. **Cryptosporium Calami** Niessl in Rabenh. Hedw. 1878, p. 167 et 3889

F. Eur. n. 2454. — In foliis Acori Calami, Calcutta Indiæ; in Rabenh. F. Eur. exempl. citato adest tantum *Pestalozziæ* species.

25. **Cryptosporium imberbe** Fr. Summa Veg. Scand. p. 423, Scler. 3890

Suec. n. 405^{bis} (non vidi) conidiis ut in *Leptothyrio acerino*. — In caulibus in Suecia.

26. **Cryptosporium deplanatum** Fr. Summa Veg. Scand. p. 423, Scler. 3891

Suec. n. 406 conidiis pellucidis, curvatis, copiosissimis. — In caulibus in Suecia.

LIBERTELLA Desm. in Ann. Sc. nat. 1830, XIX. p. 277, emend. Sacc.

Mich. II. p. 12. (Etym. a Dom. ANNA LIBERT, meritissima cryptogamologa Arduennensi). — Acervuli seu nucleii difformes, diu epidermide velati, sæpe tandem in cirros varios læticolores erumpentes; conidia filiformi-falcata, longa, continua, hyalina, basidiis variis suffulta.

1. **Libertella faginea** Desm. Ann. Sc. nat. 1830, p. 276, t. 5, f. 5, 3892

Sacc. F. it. t. 1085, *Næmospora crocea* Pers. (?), Fres. Beitr. t. IV. f. 35-39! (non Desm.). — Acervulis difformibus, sæpe confluentibus, subcutaneis, vix erumpentibus, flavo-aurantiacis; conidiis filiformi-fusoideis curvatis, 30-35 = 2, hyalinis.

Hab. in ramis corticatis Fagi silvaticæ in Gallia, Italia, Germania, Britannia. — Forma **minor** Sacc. Mich. II. p. 283: acervulis minoribus; conidiis 18-25 = 1. In ramulis tenuioribus fagineis in silva Cansiglio Ital. bor. — *Næmospora crocea* Desm. Ann. Sc. nat. 1830, t. VI. f. 3, conidiis globosis pollet et tunc *Myxosporium* spectat. Cfr. suo loco.

2. **Libertella fusca** Bon. Handb. d. Myk. p. 57, t. III. f. 70. — Acer- 3899

vulis majusculis, obtusis, flavo-fuscis, tectis; conidiis filiformi-fusoideis, in semicirculum arcuatis, denique erumpentibus; basidiis longis furcatis.

Hab. in cortice Fagi in Guestphalia. — «An status provector *Libertellæ fagineæ*?».

3. **Libertella Rosæ** Desm. Ann. Sc. nat. 1830, p. 277, t. V. f. 6, Sacc. 3894
F. it. t. 1084, *Næmospora Rosæ* Fr. S. M. III. p. 479. — Acervulis difformibus, sæpe confluentibus, subcutaneis, amœne rubro-aurantiacis; conidiis arcuato-filiformibus, 10-14 \approx 1, basidiis tere-tibus subæquilongis suffultis, hyalinis.

Hab. in ramis languidis vel emortuis Rosarum (et Syringæ, teste Cooke) in Gallia, Germania, Italia, Britannia.

4. **Libertella Loniceræ** Cooke et Harkn. in Grevillea. — Sparsa, te- 3895
cta, leviter bullata, demum pertusa; conidiis fusiformibus arcuatis, hyalinis, in cirros pallidos emergentibus, 20 \approx 2,5.

Hab. in ramis Loniceræ in California.

5. **Libertella hesperidica** Speg. Fungi Argent. Pug. IV. n. 313. — 3896
Acervulis pulvinato-tumescensibus, sæpe subconicis, subepidermicis, diu tectis, dein epidermidem ostiolatim rumpentibus atque cirrum prælongum varie contortum, succineo-fulvum emittentibus; sporulis fusosideo-filiformibus, utrinque acutissimis, valide falcatis, continuis, hyalinis, 28-34 \approx 0,7-1.

Hab. in ramis dejectis putrescentibus Citri Aurantii, Parque de Palermo, prope Buenos Ayres Argentinae (C. SPEGAZZINI).

6. **Libertella betulina** Desm. in Ann. Sc. nat. 1830, XIX. p. 276, t. 3897
VI. f. 4, *Næmospora aurea* Fr. Syst. Myc. III. p. 478. — Acervulis expansis celluloso-gyrosis, aureis; conidiis subrectis, fusiformibus aureis, utrinque acutis, quam in *Libertella faginea* paullo brevioribus.

Hab. in ramis siccis Betulæ albæ et B. verrucosæ in Gallia, Germania et America boreali.

7. **Libertella acerina** Westend. Cinquième Not. Hypox. ined. p. 29. 3898
— Acervulis epidermide bullosa, brunneo-aurantiaca pallida, irregulariter fissa tectis; conidiis fili-fusiformibus, curvatis, 20-25 μ . longis, aurantiacis.

Hab. in cortice emortuo Aceris, Louvain in Belgio.

8. **Libertella Taleola** Sacc., *Diaporthes* (Chorostates) *Taleolæ* stat. 3899
conid. Tul. II. p. 168. — Acervulis suborbicularibus, planiusculis, castaneis, intus carnosulis et dilute roseolis, gregariis, sæpe linea atra definitis; conidiis cylindræis, utrinque acutiusculis, 20-30 \approx 4, arcuatis, hyalinis.

Hab. in ramis corticatis quercinis in Gallia.

9. **Libertella punicea** Hoffm. in Rabenh. F. Eur. n. 861 (non vidi) et 3900
Hedw. 1865, p. 158. — Acervulis vel cirris amœne puniceis

Hab. in ramis Quercus americanæ in horto botan. Giessen.

10. **Libertella alba** (Lib.) Lamb. Fl. Myc. Belg. III. p. 183, *Næmo-* 3901
spora alba Lib. Exs. n. 364, *Libertella macrospora* West. Cin-
quième Not. Hypox. ined. p. 29. — Acervulis tectis, bulbosis, fis-
so-erumpentibus, intus albido-carneis, extus fuscis; conidiis fusi-
formibus, curvis, utrinque obtusis, hyalinis, in cirrum album dein
carneum tortuosum effusis, 40-60 \approx 5.

Hab. in ramis emortuis Alni glutinosæ in Belgio. — « An
potius *Cryptosporium Neesii?* ».

11. **Libertella pallida** Fuck. Symb. Myc. p. 398. — Gregaria; cirris 3902
tenuissimis, flexuosis, pallidis; conidiis cylindræis, brevibus, sub-
rectis, aliis longissimis commixtis.

Hab. in cortice Salicum, rarius pr. Oestrich in Rhenogovia.

12. **Libertella Bonordenii** Sacc. *Lib. alba* Bon. Abhandl. Geb. Mycol. 3903
II. p. 126, non Lib. — Acervulis longis irregularibus candidis, de-
mum flavescens, planis, papillis conicis erumpentibus; conidiis
cylindricis, longis, subrectis, utrinque obtusiusculis, hyalinis.

Hab. in ramis dejectis Fagi in Guestphalia.

13. **Libertella hamata** Bon. Abhandl. Geb. Mykol. II. p. 126. — Pu- 3904
stulis parvis, rotundis, conicis, apice laciniato-dehiscentibus, de-
mum late apertis; acervulis ostiolo simplici erumpentibus et stro-
mate conico suffultis; conidiis cylindricis hamatis, quam in *Liber-*
tella Rosæ paullo brevioribus; basidiis simplicibus.

Hab. in ramis siccis in Guestphalia.

14. **Libertella lignifraga** Mont. Cent. VI. n. 96^{bis}, in Ann., 1849, 3, 3905
XII. p. 317, Syll. Crypt. n. 1028. — Seriata; nucleo hemisphæ-
rico ob confluentiam lineari; conidiis cylindricis hyalinis curvatis
utrinque obtusis, cirrose rejectis, cirris tæniatis albis.

Hab. in ligno denudato erumpens prope Sedan in Arduennis.

NÆMOSPORA Pers. Syn. Fung. 110. em. Sacc. Mich. II. p. 12. (Etym.
nama fluxio et *spora*). — Acervuli seu nuclei difformes, perider-
mio diu velati, læticolores, subgelatinosi. Conidia botuliformia, bre-
viuscula, continua, hyalina, tandem sæpe in cirros exsilia. Ba-
sidia bacillaria varia sæpe ramosa.

1. **Næmospora croceola** Sacc. Mich. II. p. 120, F. it. t. 1086. — Acer- 3906
vulis subcutaneis, pulvinatis, 2-3 mill. d., amœne aurantiacis, in-
tus plurinucleatis (sed perithecio carentibus); conidiis botuliformi-
bus, minutis, 5-6 \approx $\frac{3}{4}$ -1, basidiis bis verticillato-ramulosis, acicu-
laribus suffultis, in cirros gelatinosos varios succineos exsilia.

Hab. in ramis corticatis Castaneæ vescæ, Quercus, Fa-

gi, Fraxini propè Toulouse, Rouen, etc. Galliæ. — Basidia in forma **Quercus** 20-25 = 1, in forma **Fraxini** 15 = 3; conidia in utraque 4-5 = $\frac{3}{4}$ -1.

2. **Næmospora populina** Pers. Syn. F. p. 109, *Valsæ populinae* stat. 3907
conid. Sacc. Syll. I. p. 131. — Stromate nigrescente, subcutaneo, conico-applanato; cirris flavis; conidiis cylindræis, curvatis, 8 = $1\frac{1}{2}$.

Hab. in ramis exsiccatis Populi nigræ in Germania et Italia.

3. **Næmospora citrinula** Speg. F. Arg. Pug. IV. n. 314. — Nucleis 3908
densiuscule gregariis, subepidermicis, late gregariis, minutis, hinc inde per corticem erumpentibus et in cirrum longissimum undulato-circinatum, succineo-citrinum productis; conidiis ellipticis vel elliptico-cylindræis, rectis vel inæquilateralibus, numquam curvulis, utrinque obtusiusculis, majuscule 2-guttulatis vel granuloso-faretis, 10-13 = 2,5, hyalinis.

Hab. in ramis dejectis putrescentibus Salicis Humboldtianæ in uliginosis, Boca del Riachuelo Argentinæ.

4. **Næmospora Corchori** (Kalchbr.) Sacc. *Psecadia Corchori* Kalchbr. 3909
Szeps. Gomb. p. 267. — Acervulis minutis lobatis, epidermide parum elevata tectis; conidiis minutis cytisporoideis (h. e. allantoides).

Hab. in ramulis corticatis Kerriæ japonicæ in Hungaria.

5. **Næmospora microspora** Desm. Ann. Sc. nat. 1830, tab. VI. fig. 1, 3910
Diatrype Stigmatis st. conid. Sacc. Syll. I. p. 193. — Acervulis suborbicularibus, plerumque confluentibus lateque extensis, reticulatim exaratis, læte auratis, deinde ex cinereo nigrescentibus; conidiis cylindræis, curvulis, 4-5 = 1,5, basidiis filiformibus, 24-28 = 1,5 suffultis, denique in cirros subaurantios eructatis.

Hab. in ramis corticatis Fagi, Carpini, Castaneæ, Quercus in Germania, Gallia, Italia. — Conidia ex Desm. minuta ovoidea; an eadem species?

6. **Næmospora decipiens** B. et R. North Amer. Fungi n. 45. — A. 3911
cervulis sub cortice abditis; conidiis brevibus cylindræis, curvulis, flavidis; basidiis conidio paullo longioribus.

Hab. in corticibus, quorum superficies conidiis conspersa est, in Carolina inf. Amer. bor.

7. **Næmospora erythræa** B. et C. North Amer. Fungi n. 500. — A. 3912
cervulis depressis, epidermide tenui tectis, gregariis, intus cellulis globosis præditis; conidiis breve oblongis, minutissimis.

Hab. in ramis Rosarum in America boreali.

8. **Næmospora crocea** (Bon.) Sacc. *Libertella crocea* Bon. Handb. 3913

- p. 57, t. III, f. 63, nec Auctorum, *Libertella aurea* Fr. sec. Bon. Abh. II. p. 127. — Acervulis laxè gregariis, subcutaneis, convexulis, croceis, dein stellatim erumpentibus; conidiis allantoideis, breviusculis curvulis; basidiis fasciculatis duplo longioribus suffultis.
Hab. in ramis corticatis Cratægi in Guestphalia.
9. **Næmospora nigrificans** (Bon.) Sacc. *Libertella nigrificans* Bon. 3914
Handb. d. Myk. p. 57, t. III. f. 63 d. — Acervulis pallide flavis peridermium nigrificantibus et bullatim leniter inflantibus, clausis; conidiis cylindraceis rectiusculis, brevibus utrinque rotundatis, in cirrum luteum expulsis.
Hab. in sarmentis Ruborum et Rosarum silvestrium in Guestphalia.
10. **Næmospora plumbea** (Bon.) Sacc. *Libertella plumbea* Bon. Ab- 3915
handl. Geb. d. Myk. II. p. 127. — Acervulis lentiformibus, fuscis; pustulis convexis, plumbeis; conidiis cylindricis, curvatis, minimis, hyalinis, brevibus.
Hab. in ramis Cratægi in Guestphalia.
11. **Næmospora tenuissima** (Bon.) Sacc. *Libertella tenuissima* Bon. 3916
Abhand. Geb. d. Myk. II. p. 126. — Acervulis planis, oblongis, hyalinis, dilute flavis, demum fusciscentibus; conidiis linearibus, sublongis, rectis, tenuissimis, hyalinis; ostiolo papilliformi, nigro-fusco.
Hab. in ramis siccis Coryli in Guestphalia.
12. **Næmospora Westendorpii** Sacc. *Libertella microspora* Westend. 3917
5. Not. Hypoxyl. ined. p. 30, nec Desm. — Acervulis bullatis, epidermide irregulariter fissa tectis, aurantiaco-rubris; conidiis minutis, filiformibus, plus minusve recurvatis, 10 μ . longis.
Hab. in ramis quercinis in Belgio.
13. **Næmospora flava** (Bon.) Sacc. *Libertella flava* Bon. Abhandl. 3918
Geb. d. Myk. II. p. 127. — Acervulis rotundis, irregularibus, flavis; pustulis planis, flavidis; conidiis brevibus, minimis, cylindricis, curvatis, albis.
Hab. in ramis Quercus in Guestphalia.
14. **Næmospora rufa** B. et C. North Amer. Fungi n. 494. — Acer- 3919
vulis irregularibus, applanatis, intus cellulosis; conidiis minutissimis globulosis motu Browniano præditis.
Hab. in ramis Magnoliæ in Amer. bor. — «Si conidia globulosa, species in genere anceps».
15. **Næmospora pruinosa** B. et C. North Amer. Fungi n. 493. — Pu- 3920

stulis gregariis pruinosis, intus cellulosis; sporulis minutissimis, subellipsoideis.

Hab. in *Echinocactis*, Massachussets Amer. bor. (MURRAY).

16. **Næmospora lateritia** Fres. Beitr. p. 33. — Acervulis brunneis, 3921
subglobosis, subcutaneis, epidermidem poro atro perforantibus; conidiis oblongis vel breve bacillaribus, 6-7 μ . longis, rectis, in cirros carneos vel lateritios exsurgentibus; basidiis brevibus simplicibus vel furcatis.

Hab. in epicarpio *Cucurbitæ* putrescenti in Germania. — «An vera *Næmospora?*».

17. **Næmospora fusisperma** Preuss F. Hoyersw. n. 327. — Acervulis 3922
pulvinatis, cortici insidentibus, hypothecio basidiifero; basidiis filiformibus; conidiis fusiformibus, utrinque acutis, curvatis, albis, guttulatis, cirro plano, amœne ochraceo.

Hab. in cortice *Alni*, Hoyerswerda. — «An *Cryptosporium?*».

18. **Næmospora leucostroma** Preuss F. Hoyersw. n. 330. — Pustulis 3923
minutis, gregariis, erumpentibus; ostiolo perforante, nigrescente; stromate subgloboso, subalbo; peritheciis («nucleis?») numerosis, oblongis et polymorphis lobatis, atris, circinantibus, nucleo bulboso, atro; cirris filiformibus, coccineis; basidiis filiformibus, longis; conidiis fusiformibus, utrinque rotundatis, curvatis, minutis, albis.

Hab. in cortice *Alni*, Hoyerswerda. — «An *Cytospora?*».

19. **Næmospora conica** Preuss F. Hoyersw. n. 329. — Emersa, con- 3924
ceptaculo proprio, conico-diformi, cornea, subferruginea; cellulis circinantibus, ovatis, ferrugineis, in conceptaculis infossis; disco papilliformi perforante; basidiis brevibus, filiformibus; conidiis fusiformibus, utrinque obtusatis, curvatis; episporio cum nucleo confuso, albo.

Hab. in trabe quercina, Hoyerswerda. — «An *Cytospora?*».

MELANCONIUM Link in Willd. Sp. pl. Fungi II. p. 91 (Etym. *melas* niger et *conia* pulvis seu conidia) *Callosisperma* Preuss p. max. parte. — Acervuli vel nuclei subcutanei, conoidei v. disciformes, atri. Conidia in apice basidorum solitarie acrogena e globoso oblonga, continua, fuliginea, denique in granulos v. cirros atros erumpentia et matricem fœdantia. — Sistit plerumque statum conidium *Melanconidis* v. *Melanconiellæ*. — Plures species auctorum veterum dubiæ sunt v. forte aliarum communium meræ formæ; quædam conidiis subfusoides donatæ forte ad genus *Cryptomelam* propius accedunt.

1. *In Dicotyledoneis vel plantis incertis.*

1. **Melanconium cerasinum** Peck 33 Rep. St. Mus. 26. — Acervulis ³⁹²⁵ distinctis, minutis, albis; conidiis inæqualibus, globosis, ovatis, ellipticis v. oblongis, 16-25 μ . longis, plerumque late 1-nucleatis.
Hab. in cortice emortuo Pruni virginianæ, Center Americæ borealis.
2. **Melanconium griseum** Schw. Syn. Amer. bor. n. 2966. — Acervulis ³⁹²⁶ minutis, atris, prorumpentibus ex epidermide, demum disco applanato; conidiis minutissimis globosis, subpellucidis, colore griseo, epidermidem tingentibus, in quam denique sparguntur.
Hab. ad ramis Rubi Idæi in hortis Bethlehem Amer. bor.
3. **Melanconium fusiforme** (Pr.) Sacc. *Callosisperma fusiformis* Pr. ³⁹²⁷ F. Hoyersw. n. 332. — Innatum, erumpens, sparsum, epidermide fissa; peritheciis (?) lentiformibus, carneis; nucleo primo albo, tum atro; basidiis brevibus, filiformibus; conidiis oblongo-fusiformibus, coloratis; episporio glabro; nucleo curvato.
Hab. in ramulis Pruni Armeniacæ, Hoyerswerda.
4. **Melanconium stromaticum** Corda Icon. Fung. I. p. 3, *Dapsilosporium stromaticum* Corda apud Sturm. p. 13, tab. 38. — Acervulis ³⁹²⁸ conicis, subcutaneis, stromate albido suffultis; conidiis obovatis, basi subapiculatis, intus granulosis, fuscis, effuso-fœdantibus.
Hab. in ramulis Piri, Fagi et Carpini in Germania.
5. **Melanconium Monotospora** (C.) Sacc. *Stilbospora monotospora* ³⁹²⁹ Cooke in Grevillea. — Subcorticalis, erumpens; acervulis orbicularibus; conidiis obovatis, continuis opacis, atrobrunneis, 22-25 \approx 20.
Hab. in cortice Magnoliæ glaucæ in Carolina inf. (RAVENEL). — Conidia quasi *Monotosporæ*.
6. **Melanconium viscosum** Schw. Syn. Amer. bor. n. 2964. — Acervulis ³⁹³⁰ conidiorum proveciori ætate cum epidermide assurgentibus, sphaeriæmorphis et quasi poro centrali apertis, quamvis carentibus ullo vero perithecio, sed epidermide solummodo inclusis; conidiis cylindrico-ovatis effusis demum per viscositatem ramuli, subpellucidis, non septatis.
Hab. in ramulis emortuis Robiniæ viscosæ in hortis Nazareth Amer. bor.
7. **Melanconium globosum** Cooke et Harkn. Grev. 1881 p. 128. — ³⁹³¹ Discoideum, erumpens, atrum; conidiis globosis, atro-fuscis, 10-11 μ . diam.
Hab. in ramis Eucalypti in California.

8. **Melanconium Desmazierii** (B. et Br.) Sacc. Mich. II. p. 355, F. it. 3932
t. 1083. *Discella Desmazieri* B. et Br. Ann. N. H. n. 427 t. 12
fig. 8. α , *Epidochium Martensii* West. Not. IV. p. 13. — Acer-
vulis subcutaneis, depresso pulvinatis, absque perithecio, nigris, non
vel vix erumpentibus 1 mill. latis; conidiis breve fusoideis, utrin-
que obtusiusculis, 30-35 \approx 6-10, amœne azureis, triguttulatis, ba-
sidiis filiformibus, sæpius furcatis, 50-60 \approx 1½, hyalinis suffultis.
Hab. in ramis corticatis emortuis Tiliæ in Britannia, Gallia,
Germania et Belgio.
9. **Melanconium longissimum** Bon. Abh. Geb. Mykol. I. pag. 49. — 3933
Acervulis subconvexis v. conicis atris; sacculis planis, obscure oli-
vaceis, subplicatis, intus faretis, papillatis, hypostromate luteo, me-
dio elevato; conidiis longis utrinque acutatis, simplicibus; cirris
atris ex ostiolo papillæ erumpentibus.
Hab. in cortice Tiliæ in Guestphalia.
10. **Melanconium Hederæ** Pr. F. Hoyersw. n. 312. — Sparsum; pe- 3934
ritheciis (?) cum epidermide innata prominulis, convexis, tenuibus,
nigris; ostiolo pertuso; pulpa conidiorum atra; basidiis filiformi-
bus; conidiis ovatis, atro-fuscis, crasse 1-guttatis, episporio glabro.
Hab. in ramulis Hederæ, Hoyerswerda. — «An *Coniothy-
rium?*».
11. **Melanconium microspermum** Nees Syst. d. Pilze p. 32. — Coni- 3935
diis minutis ovalibus v. ellipsoideis 6 \approx 5, fuligineis, 2-pluriguttu-
latis, in grumulos, epidermidem transigendo, coactis.
Hab. in ramis emortuis Hederæ Helicis et Alni gluti-
nosæ in Germania et Italia bor.
12. **Melanconium nephrospermum** Mont. in Castag. Suppl., p. 84, et 3936
Syll. Crypt. n. 1144. — Acervulis confertis subrotundis, puncti-
formibus atris, epidermide dealbata tectis; conidiis oblongo-reni-
formibus, magnis, fuscis, primitus stipite longo suffultis.
Hab. in ramulis siccis et dejectis Jasmini fruticantis, apud
Montaud-lez-Miramas Gallia (CASTAGNE).
13. **Melanconium punctiforme** Rabenh. Deutsch. Kr. Fl. n. 432. — 3937
Acervulis minutis, subcutaneo-erumpentibus, atris; conidiis globo-
so-ellipsoideis, majusculis, olivaceis, ex hypostromate subrotundo-
depresso, flavido radiatim oriundis.
Hab. in ramulis Lycii barbari, Dresden Germaniæ.
14. **Melanconium truncatum** Schw. Syn. Amer. bor. n. 2968. — Acer- 3938
vulis minoribus, sphaeriomorphis, prorumpentibus ex epidermide,
apice truncatis, aterrimis, demum subrotundis, effusis; conidiis pro
ratione majoribus, ovatis et subdifformibus fuscis.

- Hab.* in epidermide Sambuci canadensis passim, Bethlehem Americæ bor. — Affine *M. conglomerato*, gregarium quidem, sed non confluens.
15. **Melanconium cellulorum** B. et C. North Amer. Fungi n. 473. — 3939
 Pustulis ellipticis, cuticulâ dein rimose fissa tectis; stromate celluloso; conidiis oblongis, nucleatis, 14-15 μ . longis.
Hab. in sarmentis Rhois radicans in Pennsylvania Americæ borealis.
16. **Melanconium Oleæ** Thüm. Pilze d. Elb. p. 20. — Acervulis spar- 3940
 sis subparvis, verruciformibus, opace nigricantibus; conidiis ovoideis, crassiuscule tunicatis, grosse 2-nucleatis, 9-10,5 \approx 6, fuligineis.
Hab. in trunco Oleæ sativæ in Austria.
17. **Melanconium Sassafras** Schw. Syn. Amer. bor. n. 2965. — Acer- 3941
 vulis globosis, cum epidermide assurgentibus ut tubercula sparsa, demum ruptis et longe lateque spargentibus conidia opaca, ovata.
Hab. in junioribus ramis cæsarum arborum Lauri Sassafras, totam epidermidem circumcirca fuligineo-fusco colore tingens, Bethlehem Amer. bor.
18. **Melanconium Dothidea** Schw. Syn. Amer. bor. n. 2967. — Acer- 3942
 vulis majoribus prorumpentibus, epidermide cinctis, disco aut superficie undulatim tuberculosa (*Dothideam Sambuci* referentibus) aterrimis, compositis (sub microscopio) ex conidiis majusculis, non septatis, cylindricis, utrinque rotundatis, fuligineis.
Hab. in variis ramis præsertim Mori, Bethlehem Amer. bor.
19. **Melanconium populinum** Peck. Torr. bot. Club 1883, pag. 74. — 3943
 Acervulis prominentibus, in fissuris longitudinalibus erumpentibus; stromate albo, minuto vel obsoleto; conidiis oblongis, nigris, 15-18 μ . long. in globulum nigrum expulsis.
Hab. in ramis emortuis Populi, Jowa Amer. bor. (ELLIS).
20. **Melanconium pallidum** Peck, Rep. on the St. Mus. New York. 3944
 t. I. fig. 7-8. — Stromate minuto, flavido; conidiis in grumulos atros erumpentibus, ovoideis v. oblongis, subinde leniter curvis v. subcymbiformibus, pallidis, 15-16 μ . longis, sæpe grosse 2-3-nucleatis.
Hab. in ramis Caryæ albæ, West Troy Amer. bor. — Conidia pallida, sed coacervata fusca.
21. **Melanconium oblongum** Berk. North Amer. Fungi n. 476. — Pu- 3945
 stulis elevatis late conicis tectis; conidiis oblongis subinæquilatis, 1-guttatis, 20 μ . longis.

Hab. in ramis Juglandis cinereæ, Massachusetts, Alabama, New Jersey, Greenbush Amer. bor. — Diversum dicitur a *Melanc. ovato*.

22. **Melanconium magnum** (Grev.) Berk. Outl. pag. 324, *Nemospora* 3946
magna Grev. Sc. Fl. t. 376. — Acervulis gregariis, totum truncum subinde occupantibus; conidiis ovoideis v. subovatis, continuis, fuscis, 25-37 μ . longis, in cirros longos exeuntibus.

Hab. in truncis Juglandis regiæ, Aceris, Carpini, Caryæ in Bohemia, Britannia Amer. bor. — Forma in Juglande verisimillime non differt a *M. juglandino*.

23. **Melanconium Preussii** Sacc. *Callosisperma ovata* Preuss, F. Ho- 3947
yersw. n. 331. — Gregarium, superficiale, peritheciis (?) corneis, ovatis, papillatis, nigris; nucleo gelatinoso, atro; basidiis filiformibus; conidiis ovatis, atris; episporio glabro, atro-corneo, nucleo repleto,

Hab. ad ligna Juglandis regiæ, Hoyerswerda.

24. **Melanconium juglandinum** Kunze in Fic. Fl. Dresd. p. 260, *Mel.* 3948
Juglandis Corda Ic. III. p. 21, fig. 53, *Mel. ovatum* Auct. p. p. — Acervulis gregariis, tectis, prominulis, depresso-conoideis, atris, basi flavicante; conidiis obovatis, 25 = 15, intus granulosis, fuliginosis, pedicellis prælongis simplicibus v. furcatis fultis, mox in grumulos v. cirros aterrimos majusculos effluentibus.

Hab. in ramis languidis Juglandis regiæ in Germania, Italia, Gallia. — Forma *diffusa* Corda (Ic. III. p. 22, fig. 59) acervulis confluendo effusis, hinc inde occurrit.

25. **Melanconium intermedium** Peck. Rep. on the St. Mus. New York. 3949
Inter *M. oblongum* et *M. magnum* medium; conidiis valde inæqualibus, subglobosis, ovatis, ellipsoideis vel oblongis, atris, 25 μ . longis.

Hab. in ramis Caryæ, Buffalo et Greenbush Amer. bor. — Conidia majora quam in *M. oblongo* et minora quam in *M. magno*.

26. **Melanconium elevatum** Corda Ic. Fung. III. p. 22, fig. 60. — Stro- 3950
mate lato, albido, raro oblitterato; conidiis ovoideis v. oblongis, brunneis, 12-13 μ . longis, coacervatis aterrimis.

Hab. in ramis quercinis, Langridge Britannicæ et in Bohemia.

27. **Melanconium Papularia** Fr. S. M. III. p. 489, *Papularia Fagi* 3951
Fr. Syst. Orb. veg. p. 85. — Pustulis subrotundis, parum elevatis, confertis, extus cinereo-nigricantibus, epidermide diu velatis, dein eâ circumscissâ erumpentibus; conidiis globosis, minutis, atris.

Hab. in foliis siccis Fagi in Suecia et Germania.

28. **Melanconium grande** C. et Ell. in Grev. t. 99, fig. 11. — Pustu- 3952
lis nigris, sparsis, epidermide cinctis, vix prominulis; conidiis ma-
gnis, obtuse lanceolatis, brunneis, continuis, 55-65 \approx 18-20.
Hab. in cortice Fagi, Potsdam N. York Amer. bor.
29. **Melanconium conglomeratum** Link Sp. pl. Fungi II. p. 92, *Mel.* 3953
atrum Link Obs. I. p. 3, t. I. f. 7. — Conidiis subglobosis minu-
tis, atris, opacis laxis, in grumulos primum subrotundos dein effu-
sos digestis epidermideque scissa cinctis.
Hab. ad ramos emortuos sepimentorum in Germania, et Fa-
gorum in Italia bor. — In speciminibus italicis, teste Rabenh.
in Flora 1850, p. 631, conidia ex globoso ovoideo-oblonga, atro-
brunnea, nucleo grumoso.
30. **Melanconium ellipticum** Corda Icon. Fung. I. p. 3, tab. 1, fig. 39. 3954
— Acervulis crassis, duris, nitidis, magnis, plerumque gyrosis, ater-
rimis; conidiis elongato-ellipticis, griseo-fuscis, subpellucidis.
Hab. in cortice Castaneæ sativæ, Matta de Alcarraques
pr. Coimbra in Lusitania; in ramis arborum et cortice truncorum
emortuorum in Bohemia.
31. **Melanconium sanguineum** Rabenh. Deutsch. Kr. Fl. n. 437. — Acer- 3955
vulis elongatis, sublinearibus; conidiis ovato-oblongis, sursum acu-
tatis, fusco-flavidis, hypostromate convexo, subcarnoso, subsangui-
neo oriundis.
Hab. in cortice Castaneæ vescae emortuo in Italia boreali
(RABENHORST, 1841).
32. **Melanconium cinctum** B. et C. North Amer. Fungi n. 474. — Pu- 3956
stulis nigris, epidermide cinctis; conidiis late obovatis, 20 μ . long.
minute 1-nucleatis.
Hab. in ramulis Castaneæ pumilæ in montanis Carolinæ
superioris.
33. **Melanconium ramulorum** Corda Icon. Fung. I. p. 2 fig. 34 (ut 3957
var. *M. bicoloris*). — Acervulis sparsis, subcutaneis, depresso-co-
noideis, atris, hypostromate subolivaceo; conidiis ellipsoideis, 9-10
 \approx 7-8, deorsum apiculatis, guttulatis, fuligineis, basidiis filiformi-
bus conidio triplo longioribus hyalinis suffultis, demum effuso-
inquinantibus.
Hab. in ramis corticatis Carpini in Bohemia, Germania, Gal-
lia. — *Mel. effusum* Link, quocum nomine traditur etiam a dom.
LIBERT, satis convenit.
34. **Melanconium sycophilum** Rabenh. Deutsch. Kr. Fl. n. 436. — 3958
Acervulis oblongis, atro-brunneis, epidermide cinctis; conidiis ob-

longis, acutiusculis, fuscis, ex hypostromate subcarnoso, rubescente oriundis.

Hab. in ramis siccis Fici Caricæ inter Como et Varese Italiæ borealis (RABENHÖRST, 1841).

35. **Melanconium sphæroideum** Link, Spec. pl. Fungi II. 92! ex cit. 3959
Moug., *Stilbospora microsperma* Moug. Stirp. Vog. — Acervulis minutis epidermide tumidula diu tectis, nigris; conidiis obovatis, utrinque, præcipue apice, obtusis, minutis, $10 \approx 6$, 1-2-nucleatis, olivaceo-fuscis.

Hab. in ramulis Alni glutinosæ in Vogesis.

36. **Melanconium oblongatum** Sacc. *Callosisperma oblonga* Pr. F. 3960
Hoyersw. n. 333. — Gregarium, erumpens; peritheciis (?) globosis, subcompositis, fusco-atris; papilla umbilicato-applanata, pertusa, fusca; nucleo atro; basidiis filiformibus; conidiis oblongis, fuscis; episporio glabro, atro-fusco; nucleo curvato, fusco, non firmo et guttulis oleosis repleto.

Hab. ad ramos exsiccatos Alni glutinosæ, Hoyerswerda.

37. **Melanconium Stroma** (Pr.) Sacc. *Callosisperma Stroma* Pr. F. 3961
Hoyersw. n. 334. — Transversim erumpens, ellipticum, planiusculum, atrum; stromate fusco, in cortice rostellato distante levi; rostro superne subincrassato; peritheciis (?) stromati insertis, subcompositis; nucleis atris, mucosis, tum in cirros erumpentibus; basidiis filiformibus; conidiis ovatis, fuscis, episporio corneo, atro-fusco; nucleo fusco, curvato et guttula oleosa repleto.

Hab. in ramis exsiccatis Alni glutinosæ, Hoyerswerda.

38. **Melanconium apiocarpon** Link Sp. pl. Fungi II. p. 90. — Conidiis majusculis obovato-piriformibus, $15 \approx 8-9$, nucleatis, olivaceis, grumulos discoideos convexiusculos rotundos epidermide scissa cinctos infarcientibus.

Hab. in ramis Alni glutinosæ in Germania et Gallia.

39. **Melanconium bicolor** Nees Syst. Pilz. p. 32, f. 27, Corda Ic. I. 3963
p. 2, fig. 33. — Stromate elevato prominulo, intus pallido; conidiis compactis, ellipsoideo-subglobosis, olivaceis v. olivaceo-brunneis, $12 \approx 6$, guttulatis.

Hab. in ramis Betulæ, Carpini et Quercus in Britannia, Germania, Gallia et Amer. bor.

40. **Melanconium piriforme** Pr. F. Hoyersw. n. 45. — Erumpens, gregarium, verruciforme; perithecio tenuissimo, stromate lato, fusco; acervis conidorum atrorum diffluentibus; basidiis simplicibus, albis; conidiis obovatis piriformibusque, fuscis, pellucidis; nucleo granuloso-turbido et guttulis oleosis, magnis repleto.

Hab. in cortice Betulæ, Hoyerswerda.

41. **Melanconium betulinum** Schm. et Kunze Crypt. Exs. n. 208, Fuck. 3965
Symb. myc. p. 190. — Acervulis subcutaneis, conico-discoideis, atris; conidiis obovoideis v. ovatis, crassiuscule tunicatis, 15-18 \approx 6 $\frac{1}{2}$ -8 $\frac{1}{2}$ deorsum subacutatis, 1-guttatis v. granuloso-farctis.

Hab. in ramis emortuis Betulæ albæ et B. verrucosæ in Germania, Gallia, Italia, Austria, Sibiria asiatica.

42. **Melanconium diffluens** Corda Ic. I. p. 2, tab. I. fig. 38. — Stro- 3966
mato nullo; acervulis diffluentibus, nigris, nitidis; conidiis mucosario conglutinatis, ellipticis, olivaceis, intus nucleum obscurum, pulposum, granulatum referentibus.

Hab. in ramis Carpini Betuli (et aliarum arborum?) in Germania.

43. **Melanconium cocciferum** (Corda) Rabenh. Deutsch. Kr. Fl. p. 46, 3967
Dapsilosporium cocciferum Corda Icon. Fung. I. pag. 3, tab. I. fig. 45. — Acervulis minutis punctiformibus, atris, plerumque seriatis aggregatis; stromate gelatinoso irregulariter effuso, pallide flavo; globulis minutis, atris rotundatis; conidiis minutissimis, globosis, fuscis subpellucidis.

Hab. in ligno sicco Pini in Bohemia. — « An potius *Coniosporium?* ».

44. **Melanconium Taxi** Rabenh. Deutsch. Kr. Fl. n. 443. — Acervu- 3968
lis difformibus, atris, depressis; conidiis subclavatis, brunneis, ex hypostromate semigloboso, carnosulo pallido oriundis.

Hab. in ramis emortuis Taxi baccatæ in Helvetia.

45. **Melanconium Pini** Corda Icon. Fung. I. p. 3, tab. 1, fig. 41. — 3969
Acervulis crassis, atris; stromate nullo; conidiis obovatis, basi v. utrinque acuminatis, fuscis, pellucidis, 9-10 μ . longis, nucleo concolori, guttulis oleosis duabus farcto.

Hab. in cortice Pini in Bohemia et Rhenogovia. — Var. **cirratum** Corda Icon. Fung. I. p. 3, t. 1, fig. 42: acervulis cirratim erumpentibus; conidiis majoribus, olivaceo-fuscis, obovatis, acuminatis, nucleo concolori, guttulam oleosam solitariam referentibus, 11-12 \approx 6. In cortice Pini in monte Jæscken Bohemiæ.

46. **Melanconium putredinis** Wallr. Fl. crypt. n. 1566. — Conidiis 3970
subglobosis atris opacis majusculis, primum grumulos, ovatos convexos nigrescentes constituentibus, dein effusis, cubilia longe lateque inquinantibus.

Hab. ad ligna abietina fabrefacta, in humo uda congesta in Thuringia.

47. **Melanconium glutinatum** (Corda) Rabenh. Deutsch. Kr. Fl. n. 440, 3971

Trichoconium glutinatum Corda in Sturm. Krypt. Fl. t. 37. — Acervulis subcutaneo-erumpentibus, alte conoideis, aterrimis; conidiis obovato-piriformibus, atris; basidiis filiformibus furcatis longis.

Hab. in cortice emortuo arborum fructiferarum in Bohemia.

48. **Melanconium varium** B. et C. North Amer. Fungi n. 475. — Pu- 3972

stulis liberis, elevatis, subtruncatis; conidiis oblongis, subinde curvulis, 4 μ . longis.

Hab. in ramis emortuis, New England Amer. bor. (SPRAGUE).

49. **Melanconium graphidioides** Mont. VIII. Cent. Plant. cell. nouv. p. 3973

119. — Acervulis sparsis linearibus curvulis aut rectis, atris, cortice exteriori rupta tectis; conidiis tandem fuscis ex ovoideo-oblongis, fragilibus 20 μ . longis, sporophoris 40 μ . longis hyalinis fultis.

Hab. in cortice arboris ignotæ circa Cayennam (LEPRIEUR).

50. **Melanconium peritheciatum** Schw. Syn. Amer. bor. n. 2969. — 3974

Referens fere *Hypoxylon udum*; ligno impositos acervos, aggregatos efformans; e pseudoperitheciis pluribus conicis aut irregularibus compositi sunt acervuli, quasi acute interdum ostiolatis, demum per-tusis, sæpe lineatim confluentibus; aqua immersa, tota massa difluit in conidia majora globosa aut ovata, nigro-fuscescentia non septata, nec vestigium adest pseudoperithecii.

Hab. in ipso ligno denudato passim, Bethlehem Amer. bor.

51. **Melanconium disseminatum** Link Sp. pl. Fungi II. p. 91. — Co- 3975

nidiis inspersis conglomeratis, subglobosis, minutis, atris, pellucidis.

Hab. ad asseres semiputres passim in Germania et America bor. pr. Richmondville et Hunter. — « An potius *Coniosporium*? » Sec. Peck in Rep. on the St. Mus. N. Y. nuclei conidiorum occupant apices minutarum ligni protuberantiarum, veluti fungus putrescentiam ligni sibi proximi retardaret.

52. **Melanconium olivaceum** (Corda) Sacc. *Myxosporium olivaceum* 3976

Corda Icon. Fung. I. p. 1, tab. I. fig. 8. — Effusum, atrum; conidiis subglobosis, olivaceis, nucleo opaco, singulo faretis; muco luteo.

Hab. in ligno et caulibus lignosis herbarum prope Pragam.

53. **Melanconium acutum** Corda Icon. Fung. I. p. 3. tab. 1, fig. 43 (v. 3977

major). — Acervulis effusis, atris, stromate nullo; conidiis minutis, obovatis, acuminatis, cinereis, subpellucidis.

Hab. in cortice arborum emortuo, Pragæ in Bohemia. — Var.

- minus** Corda Icon. Fung. I. p. 3, t. 1, fig. 44: acervulis minoribus; conidiis minutissimis, obovato-acuminatis, aterrimis, impellucidis. In cortice arborum emortuarum, Pragæ in Bohemia.
54. **Melanconium oosporum** (Corda) Sacc. *Myxosporium oosporum* 397
Corda Icon. Fung. I. p. 1, tab. I. fig. 1. — Effusum, fuscum, nitidum; conidiis ovatis, fuscis, 1-guttatis, 7 μ . longis; mucro pallide luteo.
Hab. in ligno decorticato sicco in Bohemia.
55. **Melanconium effusum** Link Sp. pl. II. p. 91, Corda Icon. Fung. I. 3979
p. 91, p. 2, t. 1, fig. 35. — Acervulis crassis, effusis, atris, compactis; stromate albo; conidiis ovatis, atris, impellucidis.
Hab. in cortice arborum in Germania.
56. **Melanconium ovoideum** Link Sp. pl. Fungi II. p. 90, Corda Icon. 3980
Fung. I. p. 2, t. 1, fig. 37. — Acervulis atris, diffluentibus; stromate spurio albido; conidiis ovato-rotundatis, luridis, subdiaphanis demum in grumulos depresso conoideos congestis.
Hab. in ramis emortuis arborum frondosarum in Germania.
57. **Melanconium cryptosporium** Corda Icon. Fung. I. p. 2, t. 1, fig. 3081
36. — Acervulis bullosis, epidermide semper tectis; stromate albo, minuto; conidiis aterrimis impellucidis, ovato-oblongis.
Hab. in ramulis arborum frondosarum emortuis in Germania.
58. **Melanconium ovatum** (Pers.) Link Sp. pl. Fungi II. p. 90, *Stictispora avata* Pers. Syn. p. 96. — Conidiis magnis e figura ovali magis minusve basi tenuatis piriformibus atris pellucidis, in grumulos primum convexos dein effuso-deplanatos congestis epidermidemque transfusam obliterantibus.
Hab. ad arborum languidarum corticem siccum in Germania, Gallia. — Secundum Corda *Melanc. ovatum* v. *fusiforme* Auctorum p. p. ad *Steganosporium piriforme* spectat.

II. In Monocotyledoneis et Acotyledoneis.

59. **Melanconium melanoxanthum** B. et Br. F. of Ceyl. n. 804. — 3983
Pustulis orbicularibus erumpentibus, floccis granulise flavis cinctis; conidiis subglobosis angulatisve 15 μ . longis.
Hab. in petiolis Caryotæ urentis aliarumque palmarum in insula Ceylon et Mauritii. — Habitus fere *Stictidis*. — Forma **major**: pustulis zona coffeicolori cinctis, majoribus. In caule monocotyledoneo in Ceylon (BECCARI).
60. **Melanconium Palmarum** Cooke in Ravenel Fungi Amer. — Pu. 3984

stulis erumpentibus, convexis, atris, centro pallidis; conidiis ova-
tis, atro-brunneis, $12 \approx 10$.

Hab. in foliis petiolisque Sabal, Darien Georgiæ.

61. **Melanconium Pandani** Lév. in Ann. Scienc. natur. Bot. 1845 p. 3985

66. — Acervulis erumpentibus, atris, crassiusculis, prominentibus,
 $1-1\frac{1}{2}$ mill. diam.; conidiis oblongis, apice rotundatis, deorsum sub-
acutatis, $8-9 \approx 4-5$, 2-guttatis, olivaceis, basidiis prælongis, fili-
formibus, ramulosis, tortuosis, hyalinis, plerumque $40-50 \approx 3$ suf-
fultis.

Hab. in foliis Pandani culti Paris (LÉVEILLÉ) et Lyon (THERRY).

62. **Melanconium americanum** Peck Rep. on the St. Mus. New York. 3986

— Acervulis minutis subaggregatis v. in maculis subcircularibus
circinantibus; stromate nullo v. obscuro; conidiis compactis, sub-
globosis v. late ellipsoideis, $5-7 \mu$. longis, in grumulos conoideos
effluentibus, matricemque atrantibus.

Hab. in foliis emortuis Agaves americanæ in hortis, Buf-
falo Amer. bor.

63. **Melanconium Typhæ** Peck Bot. Gaz. p. 275. — Acervulis pere- 3987

xiguis, punctiformibus vel anguste oblongis, epidermide denique
longitudinaliter v. irregulariter fissa velatis; conidiis oblongo-fu-
soideis, atris, $10-14 \approx 4$, basidio proprio sæpius persistenter hæ-
rentibus.

Hab. in foliis emortuis Typhæ angustifoliæ, Charlotte,
Vermont Amer. bor. (C. G. PRINGLE).

64. **Melanconium Secalis** Lib. in Herb., Cooke in Grevillea. — Acer- 3988

vulis minimis, globosis, nigris, primo tectis, demum fisso-erumpen-
tibus; conidiis ovalibus, atris, simplicibus, cirratim erumpentibus.

Hab. in culmis Secalis cerealis in Arduennis (LIBERT).

65. **Melanconium sphærospermum** (Pers.) Link Sp. pl. Fungi II. p. 91, 3989

Stilbospora sphærosperma Pers. Syn. p. 97. — Acervulis com-
pactis, oblongo-compressis, epidermide tumidula vix fissa tectis;
conidiis globoso-depressis $8-10 \mu$. diam., $6-7 \mu$. cr., faretis, fu-
ligineis.

Hab. in culmis Phragmitis communis, Arundinis Do-
nacis, Arundinariæ giganteæ in Germania, Italia, Gallia,
Britannia, Lusitania. — *Gymnosporium inquinans* Berk. Grev.
VII. p. 45 huc forte spectat. A typo *Coniosporii* v. *Papulariæ*
conidiis conglutinatis tectisque differt, a *Melanconiis* veris autem
nisi basidiis minus evolutis non differt. Videretur tamen potius
forma tecta compacta *Coniosporii* (*Papulariæ*) *Arundinis* Corda.

66. **Melanconium Donacis** Thüm. Contr. Myc. Lusit. n. 190, *Melan-* 3990
conium sphaerospermum Link. var. *Donacis* Thüm. in Rabh.
 Fungi europ. n. 1573. — Acervulis ellipticis, longis, numerosis,
 erumpentibus, longe diu epidermide tectis, postremo liberis pulve-
 rulentisve, aterrimis; conidiis plus minusve globosis vel etiam sæpe
 ellipsoideis, fuliginosis, cum nucleo medio concolori magno, 5-8 μ .
 diam.

Hab. ad culmos emortuos subputridos *Donacis* arundina-
 cæ, Baleia prope Coimbra Lusitaniæ (MOLLER).

67. **Melanconium parasiticum** West. Not. IV. p. 12, Kickx Fl. cr. 3991
 Fl. II. p. 92. — Acervulis rotundis v. oblongis, prominulis, atris,
 epidermide tectis, dein rimose erumpentibus; conidiis ovoideis,
 brunneis, subpellucidis, 7,5-10 μ . longis.

Hab. in ramis *Clavariæ aureæ* in Belgio.

CRYPTOMELA Sacc. (Etym. in mentem revocat *Cryptosporium* et
Melanconium, inter quæ fere medium genus), *Cryptosporium*
 Auct. p. p. — Acervuli seu nuclei subcutanei v. demum erum-
 pentes, atri, minuti. Conidia fusioidea, sæpe curvula, atra.

1. **Cryptomela Caricis** (Corda) Sacc. *Cryptosporium Caricis* Corda 3992
 in Sturm Crypt. Fl. II. t. 50. — Peritheciis perexiguis, vix con-
 spicuis, hypophyllis, crebris, depresso-subrotundis, brunneis; co-
 nidiis fusioideis, rectis vel curvis, utrinque acutis, brunneis, sub-
 diaphanis.

Hab. in foliis *Caricum* in Bohemia, Britannia, Amer. bor.

2. **Cryptomela atra** (Kunze) Sacc. *Cryptosporium atrum* Kunze 3993
 Myk. Heft. I. p. 3, t. 1, f. 1, Corda in Sturm Deutsch. Kr. Fl.
 t. 49. *Cr. graminis* Fr. S. M. III. p. 482. — Acervulis minutis,
 elongatis v. ellipticis, tarde erumpentibus, atris; conidiis fusifor-
 mibus curvis utrinque acutis, compactis, nigricantibus opacis.

Hab. ad culmos et folia graminum, *Caricum* præprimis, lan-
 guida, circa Lipsiam (KUNZE), Berolinum (EISENHART, LINK).

3. **Cryptomela Ammophilæ** (Dur. et Mont.) Sacc. *Cryptosporium Am-* 3994
mophilæ Dur. et Mont. in Mont. Syll. n. 996. — Pseudo-peri-
 theciis punctiformibus, atro-nitentibus, stromate tenui celluloso
 deplanato suborbiculari atro; basidiis brevissimis; conidiis oblon-
 go-fusififormibus atro-brunneis.

Hab. in foliis siccis *Ammophilæ arenariæ*, La Calle Al-
 gericiæ (DURIEU).

4. **Cryptomela Arundinis** (Dur. et Mont.) Sacc. *Cryptosporium Arundinis* Dur. et Mont. in Mont. Syll. n. 995. — Pseudo-peritheciis innatis, mox denudatis, minutis, punctiformibus, convexis, atris, stromate celluloso succineo immersis; conidiis olivaceis fusiformibus, altero fine guttula hyalina notatis et pedicellatis.

Hab. in foliis vaginisque Arundinis giganteæ in Alger (DURIEU).

5. **Cryptomela confluens** (Kunze) Sacc. *Cryptosporium confluens* Kunze in Fr. Syst. Myc. III. p. 483. — Stromate nullo; acervulis oblongis sæpe confluentibus; conidiis ovalibus rectis, atris, seriatim secedentibus.

Hab. ad folia Panici in Gujana (WEIGEL). — «An *Melanconium?*».

6. **Cryptomela betulina** (Corda) Sacc. *Cryptosporium betulinum* Corda Icon. I. p. 2, fig. 32. — Acervulis atris, tectis; conidiis subfusiformibus, minutis, fuscis.

Hab. in ramulis Betulæ carpathicæ prope Pragam in Bohemia.

THYRSIDIUM Mont. Ann. sc. nat., 2, VI. p. 338, et Fl. Alg., I. p. 324 (Etym. a *thyrsos*, ob conidiorum dispositionem). *Myriocephalum* De Not. non Benth., *Cheirospora* Fr., *Hyperomyxa* Corda. *Rhabdosporium* Chev. — Stroma gelatinosum, subcorticale, epidermide tectum, deia eadem rupta erumpens, atro-inquinans; basidia flocciformia, hyalina, tenuissima, ramosa, continua aut obsolete septata, undique irradiantia; conidia globulosa in series cheiromorphas moniliformi-concatenata, olivaceo-fuliginosa, semi-opaca atque in capitula terminalia thyrsoidea aut sphaerica, muco obvoluta, arcte conglomerata.

1. **Thyrsidium hedericolum** (De Not.) Dur. et Mont. Fl. Alg. I. p. 325. Sacc. F. ital. t. 1099. *Myriocephalum hederæcolum* De Not. Micr. ital. III. p. 18, f. 10, *M. densum* Fuck. Enum. Fung. Nass. p. 23. — Acervulis gregariis, globoso-depressis, atris, epidermide velatis, mox in grumulos tremelloideos plano-convexos effluentibus; stromate pallido subgelatinoso; basidiis filiformibus dichotomis v. ramosis; conidiis minutis, globosis, in capitula subsphaerica dense conglomeratis, olivaceis 3 μ . diam.

Hab. in ramulis Hederæ Helicis in Italia, Germania, Britannia, Gallia. — Var. **Carpini**. In ramulis Carpini Betuli et *C. americanæ* in Gallia, Germania, Amer. bor.

2. **Thyrsidium botryosporum** Mont. Syll. p. 310 et Ann. Sc. nat. 1836, 3999
t. XVIII. f. 5, Fres. Beitr. t. 5, f. 9, Sacc. F. it. t. 1100, *Myriocephalum botryosporum* Fres. Beitr. p. p. t. V. f. 8, 9. *M. laxum*
Fuck. Enum. Fung. Nass. p. 23, *Rhabdosporium diffusum* Chev. —
Acervulis minutis convexis conicisve, epidermide rupta atro-inqui-
natis; conidiis globoso-obovatis, olivaceis, fuscescentibus, in capi-
tula subrotunda laxè conglomeratis, 3 = 2,5-3.
- Hab.* in ramulis fagineis in Gallia, Germania, Italia, Belgio,
America boreali.
3. **Thyrsidium Micheneri** (B. et C.) Sacc. *Cheirospora Micheneri* B. 4000
et C. North Am. Fungi n. 492. — Soris elevatis, minutis; capitulis
longe pedicellatis globosis v. irregulariter obovatis, fuscis e conidiis
globosis indefinitis, membrana tenui circumdatis; basidiis subinde
furcatis.
- Hab.* in ramis Carpini in Pennsylvania Amer. bor. — « An
diversum e *Th. hedericolo* f. *Carpini*? ».
4. **Thyrsidium betulinum** Karst. F. Vain. p. 142. — Acervulis spar- 4001
sis, innato-erumpentibus, pulvinatis, subdepressis, orbicularibus v.
ovoideis v. ellipsoideis, atris, levibus, 0,2-0,4 mill. diam.; basidiis
valde flexuosis, continuis, fuliginosis, pellucidis, 6 μ . cr.; conidiis
in glomerulos sphæroideos v. ovoideos, usque ad 34 μ . diam., con-
gestis, sphæroideis, fuliginosis, diaphanis, 6-10 μ . diam.
- Hab.* ad corticem levem induratum Betulæ albæ, Kongs ad
mare glaciale et in M. Sallatunturi ad Knolajarvi.
5. **Thyrsidium oblongum** (Fuck.) Sacc. *Myriocephalum oblongum* 4002
Fuck. Symb. myc. p. 351, tab. I. fig. 9. — Acervulis erumpenti-
bus, aterrimis; conidiorum capitulis oblongis, densis; conidiis glo-
bosis; basidiis filiformibus subinde furcatis.
- Hab.* in ramis siccis Abietis excelsæ, raro pr. Oestrich
Rhenogoviæ.
6. **Thyrsidium turbinatum** (Bon.) Sacc. *Hyperomyxa turbinata* Bon. 4003
Handb. p. 150. — E ligno erumpens, brunneum; basidiis radian-
tibus apice capituligeris, anastomosantibus, apice non inflatis.
- Hab.* in lignis in Guestphalia.
7. **Thyrsidium stilbosporoides** (Corda) Sacc. *Hyperomyxa stilbospo-* 4004
roides Corda Icon. fung. III. p. 34, fig. 89. — Acervulis puncti-
formibus, gregariis, nigris, emergentibus; stromate albo; hyphis
ramosis, filiformibus; conidiis globoso-oblongis inæqualibus, fuscis,
guttulatis, 5,5-6,5 μ . longis, in capitula oblonga v. obovata den-
siusecule congestis.

Hab. in fragmentis ligneis (primitus corticatis?) Coryli Avel-
lanæ, Reichenberg Bohemiæ.

DIDYMOSPORIUM Nees Syst. p. 33, em. Sacc. Mich. II. p. 11 (Etym. *didymos* et *spora*). — Acervuli saprogeni, globosi vel oblongi tecti, mox erumpentes. Conidia oblonga vel fusioidea, 1-septata, fusca v. fuliginea, sæpius breve stipitata. — Plures veterum species, male exploratæ, propius forte spectant *Melanconium* vel *Dicocum* vel *Coniothecium*.

1. **Didymosporium Striola** Sacc. F. it. 1098, Mich. II. p. 540. — Acervulis gregariis punctiformibus, atris, innato-erumpentibus, discoideis; conidiis oblongis, deorsum acutiusculis, constricto-1-septatis, 7-10 \approx 4-5, binucleatis, fuligineis; basidiis bacillaribus conidio paulo brevioribus, hyalinis e strato prolifero fusco oriundis.

Hab. in ramulis languidis Lycii europæi, Licata Siciliæ (V. BELTRANI).

- 2 **Didymosporium atro-cæruleum** Oud. Mat. Myc. Nederl. II. p. 26 t. IV. f. 2. — Acervulis subcutaneo-erumpentibus, atro-cæruleis; conidiis ovoideis v. obovoideis initio hyalinis continuis, dein atro-cæruleis, 1-septatis, non v. vix constrictis, 25-30 \approx 12-15; basidiis filiformibus, conidio triplo fere longioribus.

Hab. in ramis Urostigmatis Neumannii in horto bot. Amsterdam Neerlandiæ.

3. **Didymosporium culmigenum** Sacc. F. ital. t. 1097, Mich. II. p. 539. — Acervulis gregariis innato-erumpentibus, punctiformibus, atris; conidiis oblongo-fusioideis, constricto-1-septatis, utrinque acutiusculis, rectis curvulisve, 14-15 \approx 5-6, biguttatis, fuligineis; basidiis bacillaribus, 5-8 \approx 1 e strato prolifero parenchymatico fusco oriundis, hyalinis.

Hab. in culmis Sorghi vulgaris, Selva (Treviso) Ital. bor. — Conidia initio continua, hyalina.

4. **Didymosporium Carpini** Corda Icon. fung. I. p. 7, fig. 106. — Acervulis ovalibus v. oblongis, transversim positis, parum prominulis, atris, epidermide fissa cinctis; conidiis ovoideis, utrinque obtusiusculis, 1-septatis, non constrictis, brunneis, subpellucidis, loculis sæpe inæqualibus; basi stromatica albida.

Hab. in ramulis Carpini Betuli in Bohemia et Belgio.

5. **Didymosporium profusum** (Grev.) Fr. S. Mich. III. p. 487, *Stilbospora profusa* Grev. Sc. Crypt. Fl. t. 212, fig. 1. — Acervulis

majusculis, conicis, subcutaneis, atris, centro erumpentibus; conidiis minutis ovoideo-oblongis, 1-septatis, atris, dein effluentibus.

Hab. in ramis corticatis Fagi silvaticæ et Aceris Pseudoplatani et Platanoidis, Edinburgh Scotiæ et in Suecia. — Species omissa in mycographiis anglicis Berkeleyi et Cookei.

6. **Didymosporium effusum** Schw. Syn. Amer. bor. n. 2974. — Acer- 4010
vulis subelongatis ovato-convexis, subhysteriomorphis, interdum rotundatis, disco impressis, nigris, plerumque prorumpentibus et confluentibus, epidermide cinctis, sed etiam omnino liberis; conidiis copiosis pellucidis, didymis profluentibus lateque effusis.

Hab. in cortice suberoso putrido Ulmi fulvæ, Bethlehem Americæ borealis.

7. **Didymosporium erumpens** Schw. Syn. Am. bor. n. 2975. — Acer- 4011
vulis ovato-ellipticis, erumpentibus, epidermide cinctis, disco impresso et passim colliculoso, sæpe confluentibus et aterrimis; conidiis crebris, oblongis, didymis; sporodochio 2-4 mill. diam.

Hab. in ramis Celas tri per epidermidem erumpens, Bethlehem Americæ borealis.

8. **Didymosporium minutissimum** Schw. Syn. Amer. bor. n. 2976. — 4012
Acervulis minutissimis longe lateque ex epidermide more Sphaeriarum erumpentibus, nigris, epidermide subtectis, subglobosis; conidiis minutissimis globosis sed uniseptatis aut quasi ex duobus hemisphæris constantibus.

Hab. in cortice Populi italicæ et Platani, Bethlehem Amer. bor.; in ramis Platani occidentalis, Buffalo (CLINTON in Peck Rep. sub *Melanconio*).

9. **Didymosporium acuminatum** Schw. Syn. Amer. bor. n. 2977. — 4013
Acervulis minutis subcorticalibus transversim prorumpentibus; sporodochio intus albo, spurio; conidiis didymis, crebris, utrinque acuminatis.

Hab. non rarum in cortice juniore ramorum Betulæ, Bethlehem Amer. bor. — Structurâ internâ non dissimile a *D. elevato* seu *Melanconio bicolore*, sed multo minus. « An potius ergo *Melanconium?* ».

10. **Didymosporium Celtidis** Schw. Syn. Amer. bor. n. 2973. — Acer- 4014
vulis subfasciculatim ex cortice prominentibus, difformibus, nigris; conidiis compactis, didymis, utrinque subacutis, fusciscenti-nigris creberrime profluentibus, lignum et corticem inquinantibus.

Hab. in ramis valde corruptis Celtidis occidentalis, Bethlehem Amer. bor.

11. **Didymosporium corticale** Schw. Syn. Amer. bor. n. 2979. — Acer- 4015
vulis effusis, tenuissimis, applanatis, plerumque orbiculatis, tuber-
culos minutos referentibus; conidiis didymis, nigris, quasi ex duo-
bus globulis formatis.

Hab. in cortice glabrato Rhois, Bethlehem Amer. bor.

12. **Didymosporium Calycanthi** Schw. Syn. Amer. bor. n. 2978. — 4016
Acervulis elliptico-diformibus, confluentibus, longitudinaliter erum-
pentibus, epidermide cinctis; sporodochio irregulari, subconvexo, ap-
planato, fusco-nigro; conidiis oblongis, utrinque subacutis, didymis.

Hab. passim in ramulis Calycanthi emortui, Bethlehem Ame-
ricæ borealis.

13. **Didymosporium? macrospermum** Corda Ic. IV. p. 5, fig. 17, Fres. 4017
Beitr. p. 104, t. XII. fig. 39-41. — Acervulis atris, gregariis mi-
nutis, opacis; conidiis ovoideis, fuscis, utrinque pallidioribus, ad me-
dium annulo septiformi (septo?) atro ornatis, 12-15 = 5-6; basidiis
nullis v. obsoletis.

Hab. in ligno putri quercino in silvis et cellis vinariis in
Bohemia et Rhenogovia. — Uterque conidii locus medio denique
tenuiter dividitur et tunc conidium 3-septatum evadere videtur.
Fungillus probabiliter inter *Hyphomycetes demetios* aptius mili-
taret. Secundum B. et Br. ad *Coryneum macrospermum* suum
pertinet, quod oppugnat cl. Fresenius l. c.

14. **Didymosporium conglutinatum** Corda Ic. fung. II. p. 5, fig. 23. — 4018
Acervulis libere (?) evolutis, confluentibus, aterrimis, hypostromate
te gelatinoso, granulis atris, minutissimis, molecularibus repleto dein
diffuente; conidiis didymis oblongis, episporio crasso, atro, nucleo
luteolo homogeneo.

Hab. in foliis Quercus, parasitice, teste Corda, supra *Clado-
sporium epiphyllum*, pr. Prag Bohemiæ.

II. *Epicladium* Fr. Summa V. S. p. 475.

Conidia pedicellata adnata stromati corneo, marginato
et dein in tuberculum corneum coalita.

15. **Didymosporium pezizoideum** Schw. Syn. Amer. bor. n. 2972. — 4019
Acervulis pezizoideis, marginatis, cinereo-atris, dense aggregatis et
epidermide stellatim rupta cinctis; disco 1-2 lineari diam., impres-
so; forma acervulorum quasi angulata, ob mutuam pressionem; ju-
niore ætate sporodochium undique conidiis crebris nigris, unise-
ptatis onustum; denique conidia fere coalescentia cum sporodochio
indurato et intus subcorneo et albido.

Hab. passim in cortice putrido ramorum Mori albæ, gregarie crescens, Bethlehem in America boreali. — An novum genus? (præeuntibus SCHWEINITZ et FRIES.). — Ad pedalem longitudinem aggregati acervi ambiunt ramos et cum cortice fibroso faciliter evelli possunt.

BULLARIA DC. Fl. Fr. II. p. 226 (Etym. a *bullæ*), *Phragmotrichum* Corda p. p. — Acervuli subcutanei, caulogeni. Conidia oblonga, medio 1-septata vel didyma, fusca, per filamenta hyalina conjuncta et catenulatim digesta. — Est quasi *Phragmotrichum* sed conidia didyma.

1. **Bullaria Umbelliferarum** DC. Fl. Fr. II. p. 226, *Phragmotrichum* 4020
Bullaria (Link) Corda Ic. fung. I. p. 10, f. 149, *Puccinia Bullaria* Link Sp. pl. Fungi II. p. 78, *Stilbospora bullata* Link. — Acervulis oblongis minutis, epidermide bullosa tectis dein erumpentibus; basi stromatica pallida; conidiis oblongis, utrinque truncatis, 1-septatis, non constrictis, pallidis, dein fuscis, sæpe 2-guttatis, 16-18 μ . longis, filamentis connectivis filiformibus conidium subæquantibus, hyalinis continuis; basidiis bacillaribus dichotomis.

Hab. in caulibus siccis Umbelliferarum majorum e. g. Libanotis in Gallia, Bohemia, Belgio et Germania.

SEPTOMYXA Sacc. (Etym. *septum* et *myxa* h. e. *Myxosporium*, conidiis 1-septatis). — Nuclei vel acervuli globoso-depressi, subcutanei, demum suberumpentes, sæpe læticolores, carnosuli. Conidia ellipsoidea vel oblonga, 1-septata, subhyalina. — Est quasi *Myxosporium* conidiis 1-septatis.

1. **Septomyxa persicina** (Fres.) Sacc. *Næmospora persicina* Fres. 4021
Beitr. p. 33, t. III. f. 53-55. — Acervulis depresso-conoideis, subcutaneis, dein erumpentibus, intus albidis, minutis; conidiis oblongis, constricto-1-septatis, utrinque rotundatis, rectis vel leniter curvis, 11-14 \approx 3, subhyalinis in cirros elongatos tortos pulchre persicinos effluentibus.

Hab. in epicarpio Cucurbitæ putrescentis in Germania.

2. **Septomyxa Æsculi** Sacc. *Myxosporium* ? *aberrans* Sacc. Mich. I. 4022
p. 128, *Cryptosporæ Æsculi* status conid. Fuck. Symb. p. 193. — Nucleis gregariis, subcutaneis dein erumpentibus, varie sinuosis sordide roseis; conidiis e strato prolifero ochraceo fasciculatim oriundis, stipitatis, ovato-fusoideis, rectis curvulisve, 1-septatis, sæ-

pius constrictis, 15-16 = 3-4, e hyalino dilutissime roseis; basidiis cylindraceo-conoideis, conidio paullo longioribus.

Hab. in cortice *Æsculi Hippocastani* in horto botanico Berolinensi (P. MAGNUS) et in Rhenogovia (FUCKEL).

3. **Septomyxa exulata** (Jungh.) Sacc., *Didymosporium exulatum* 4023

Jungh. Præm. Fl. Java, p. 3. — Acervulis convexis, pulvinatis, sparsis, subepidermicis, incarnatis, subpulverulentis; conidiis majusculis, ovoideis, medio septatis, carneis, in nucleum conglutinatis.

Hab. in corbicularibus e ramis salicinis contextis in navigio prope insulam Javam.

MARSONIA Fisch. in Raben. F. Eur. n. 1857, Sacc. Mich. II. p. 11

(Etym. a cl. TH. MARSSON, botanico germanico). — Acervuli biogeni, semper vel diu foliorum epidermide tecti, globoso-discoidei, pallidi. Conidia ovoidea vel oblonga, 1-septata hyalina. — Est *Glæosporium* conidiis 1-septatis.

1. **Marsonia Populi** (Lib.) Sacc. F. it. t. 1032, *Glæosporium Populi* 4024

(Lib.) Mont. et Desm. Exs. n. 2129. *Leptothyrium Populi* Lib. Ard. p. 257, Desm. XIII Not. (1846) p. 67, *Asteroma labe* Berk., *Gl. labe* B. et Br., Cooke Handb. p. 474, *Glæosp. Berkeleyi* Mont. Ann. Sc. nat. 1849, XII. p. 296. — Maculis suborbicularibus, epiphyllis, subinde confluentibus, brunneis, sæpius atro-marginatis; acervulis convexis dein applanatis, fulvescentibus; conidiis obovato-subpiriformibus, 20 = 12, 1-septatis, leniter constrictis, rectis v. curvulis; cirris albidis, sæpe vero obsoletis.

Hab. in pagina superiore foliorum *Populi nigræ*, *italicæ* et *albæ* in Gallia, Britannia, Belgio, Italia, Austria, Germania. — *Glæosporium Castagnei* Mont. Syll. p. 195, huic valde affine, differt maculis minus atris, conidiis angustioribus, non constrictis; hinc *Gl. Populi* Oud. Mat. Neerl. II. p. 29, t. X. f. 17 videtur potius *Gl. Castagnei*.

2. **Marsonia piriformis** (Riess) Sacc. *Didymosporium piriforme* 4025

Riess in Hedw. I. p. 23 cum icone, Oud. Mat. Myc. Neerl. II. p. 73, tab. XII. fig. 27. — Endophyta, solitaria aut gregaria, maculâ nigro-fuscâ circumdata, epidermidem in pustulas minutas extollens; conidiis ex stromate tenuissimo celluloso natis, albis, pellucidis, oblongo-piriformibus, 20-21 = 8-10, infra medium 1-septatis et distincte constrictis; basidiis bacillaribus conidio quarta parte brevioribus.

Hab. in pag. sup. foliorum vegetorum *Populi albæ* in Ger-

mania et Hollandia. — Fungillum cum *Marsonia Populi* v. *M. Castagnei* collidere autumavi, sed icon. in Oud. l. c. diversam rem sistere videtur; dubium tamen gravissimum restat.

3. **Marsonia Castagnei** (Desm. et Mont.) Sacc. F. ital. t. 1068, *Gloeosporium Castagnei* Desm. et Mont., Cent. VI. n. 79, l. c. et Castagne, Supplem., p. 58, t. IX. — Epiphylla in maculis orbicularibus confluentibus, brunneis; conidiis oblongo-clavatis, 18-20 \approx 7-8, 1-septatis non vel lenissime constrictis, hyalinis, brevissime pedicellatis; cirris niveis crassis.

Hab. in pagina superiore foliorum Populi albæ, Montaud et Aix in Gallia meridionali (CASTAGNE), in Vogesis (MOUGEOT), prope Hattenheim (FUCKEL).

4. **Marsonia truncatula** Sacc. Mich. II. p. 354. F. ital. t. 1064, *Gloeosporium truncatulum* Sacc. M. V. n. 971 et Mich. I. p. 221. — Maculis arescendo ochraceis, variis; acervulis gregariis hypophyllis e rotundo angulosis, fulventibus vix prominulis; conidiis ovoideis, 8-10 \approx 4-5, 1-septatis, loculo superiore crassiore, inferiore truncato, viridulis.

Hab. in foliis languidis Aceris Negundinis et Aceris campestris in Italia, Gallia, et Germania. — Suspico speciem hanc eandem esse ac *Didymosporium Aceris* (Lib.) Mont. h. e. *Cheilaria Aceris* Lib. seu *Ascochyta Aceris* (Lib.) Fuck. Sec. Hoffm. Ind. 49 cum hac specie quoque synonyma sunt *Depazea Aceris* Desm., *Dep. acericola* Desm., *Sphaeria acericola* Duby; exemplaria vero et descriptio completa mihi desunt. *Phyllosticta destruens* f. *Negundinis* Thüm. F. A. n. 1284 (nec Desm.) huc pertinet.

5. **Marsonia Juglandis** (Lib.) Sacc. F. ital. t. 1095, *Leptothyrium Juglandis* Lib. Exs. n. 164, *Gloeosporium Juglandis* (Lib.) Mont. — Maculis hypophyllis, subcircularibus v. irregularibus, fusco-cinereis; acervulis appianatis, rugulosis, brunneis, minutis; nucleo griseo; conidiis fusoidis, incurvis, apice subrostratis, 1-septatis, 20-25 \approx 5, hyalinis.

Hab. in foliis Juglandis regiæ et *J. nigræ* in Italia, Gallia, Germania, Britannia, Lusitania.

6. **Marsonia Thomasiana** Sacc. F. ital. t. 1067, *Gloeosporium Thomasianum* Sacc. Mich. I. p. 129. — Maculis parvis subcircularibus, amphigenis, rufis; acervulis in media macula erumpentibus, albidis; conidiis ex ovato oblongis utrinque rotundatis, constricto-didymis, 25-30 \approx 12-15, quandoque loculo uno laterali accedente,

rarius conidiis duobus confluentibus, 2-4-guttulatis, hyalinis, basidiis crassis oblongis, conidium subæquantibus, fultis.

Hab. in pagina superiore et inferiore foliorum languidorum *Evonymi latifolii* ad Soolenleitung am Fürstenstein bei Berchtesgaden in Salzkammergut (bei Reichenhall) in Bavaria (Doct. FR. THOMAS in herb. P. MAGNUS).

7. **Marsonia Neilliae** Harkn. F. Calif. p. 11. — Maculis minutis, angulosis, brunneis; acervulis epiphyllis; conidiis hyalinis, curvis, 25-30 \approx 8, prope medium constricto 1-septatis. 4030

Hab. in foliis vivis *Neilliae opulifoliae*, Berkeley Californiæ.

8. **Marsonia Lonicerae** Harkn. F. Californ. p. 11. — Maculis irregularibus, albis, brunneo-marginatis; acervulis sparsis, epiphyllis; conidiis clavatis, sæpe curvulis, hyalinis, 35-40 \approx 7-9, prope basim septatis. 4031

Hab. in foliis vivis *Lonicerae conjugalis*, Sierra Nevada Californiæ.

9. **Marsonia Daphnes** (Desm. et Rob.) Sacc. F. ital. t. 1063 et Mich. II. p. 541, *Gloeosporium Daphnes* Oud. Mat. Myc. Neerl. II. p. 28, t. X. f. 14. *Septoria Daphnes* Desm. et Rob. X. Not. p. 22. — Amphigena; maculis viridulis irregularibus, dein fuscillis; acervulis, exiguis, sparsis v. gregariis, pallidis, tectis; cirris albidis; conidiis ovoideis, curvulis, utrinque acutis, prope basim uniseptatis, 20 \approx 4-5, hyalinis, granulosis, brevissime septatis. 4032

Hab. in foliis subvivis *Daphnes Mezerei* in Gallia et Neerlandia. — «An eadem species ac *Leptothyrium Mezerei* Lib.? ».

10. **Marsonia Martini** Sacc. et Ell. Mich. II. p. 574. — Maculis amphigenis, minutis, ochraceis; pustulis in centro maculae gregariis, sæpius hypophyllis, globulosis, subsuccineis, minutis; conidiis fuscoideis, curvis, utrinque acutis, 1-septatis, leniter constrictis, 12-15 \approx 2,5, 4-guttulatis, hyalinis; basidiis brevissimis viridulis. 4033

Hab. in foliis subvivis *Quercus obtusilobæ*, Chester Count. Pennsylvaniae (Doct. G. MARTIN).

11. **Marsonia Atragenes** Thüm. Pilzfl. Sibir. n. 678. — Acervulis sparsis, epiphyllis, lenticularibus, vix prominulis, ochraceis in macula subsinuosa, arescendo ochraceo-fusca, obscurius marginata; conidiis subcylindricis, utrinque rotundatis, rectis vel leniter curvatis, medio plerumque subinflexis et proinde calceiformibus, uniseptatis, sæpe binucleatis, 16-18 \approx 6-7, hyalinis. 4034

Hab. ad folia viva *Atragenes alpinæ* in silvis prope lacum Bulakul in Sibiria asiatica.

12. **Marsonia Delastrei** (De Lacr.) Sacc. Mich. II. p. 119, F. it. tab. 4035
1066, *Glæosporium Delastrei* De Lacr. in Mont. Cent. Cell. II. p. 345. — Maculis vagis, flavido-sordidis, amphigenis; acervulis minutis vix erumpentibus, lutescentibus; conidiis clavato-obpiriformibus, 20-25 = 6-7, sæpe inæquilateralibus, infra medium denique 1-septatis, 4-5-guttulatis v. nubiosis, hyalinis, basidiis teretibus brevibus, 8-10 = 3, suffultis.

Hab. in utraque pagina foliorum *Lychnidis dioicæ*, *L. chalconicæ*, *Agrostemmatidis Githaginis*, *Silenes inflatæ* in Gallia, Germania, Italia, Austria, Sibiria. — Specimina in Rabh. F. E. 2067, Oudem. F. n. 89, Schröt. P. Bad. 95 congruunt. *Glæosporium Lychnidis* Oud. Aanw. I. pag. 3, forte sistit statum immaturum.

13. **Marsonia Violæ** (Pass.) Sacc. *Glæosporium Violæ* Pass. Micr. 4036
ital. n. 18. — Acervulis epiphyllis, sparsis folium decolorantibus, castaneis; conidiis oblongis rectis vel curvis, subinde falcatis, primo integris, tandem obscure extra medium septatis, intus granulosis, 15-18 = 5.

Hab. ad folia languida *Violæ bifloræ* interdum cum *Puccinia Violæ* in Apennino parmensi (Lago santo) Italiæ borealis.

14. **Marsonia Potentillæ** (Desm.) Fisch. in Rabenh. F. Eur. n. 1857, 4037
Sacc. F. it. tab. 1070, *Glæosporium Potentillæ* (Desm.) Oud. in 26 Jarg. Ned. III. Beil. p. 3, *Phyllosticta Potentillæ* Desm. Ann. Sc. nat. VIII. pag. 31 (1847). *Leptothyrium Dryadearum* Desm. *Septoria Potentillarum* Fuck. — Maculis epiphyllis subcircularibus, sanguineis; acervulis tectis, lenticularibus, pallidis, minutis; conidiis oblongo-fusoideis, 20-25 = 7-9, falcatis, apice subrostratis, 4-guttulatis, hyalinis; basidiis brevissimis.

Hab. in pag. sup. foliorum subvivorum *Potentillæ reptantis*, *P. fragarioidis*, *P. latifoliæ*, *P. anserinæ* etc. in Gallia, Germania, Italia, Belgio, Sibiria.

15. **Marsonia andurnensis** (Ces.) Sacc. F. it. t. 1069 et Mich. p. 541, 4038
Glæosporium andurnense Ces. in Rabenh. F. Eur. n. 98. — Maculis nullis vel obsoletis; pustulis minutis, pallidis, tectis, leniter prominulis; conidiis clavatis, deorsum valde attenuatis, uniseptatis, 10-15 = 5-6, granulosis, hyalinis; basidiis teretibus conidio brevioribus.

Hab. in caulibus languidis *Passerinæ* annuæ prope Andorno (CESATI) et Vigheffio, Parma (PASSERINI).

16. **Marsonia Meliloti** Treal. Fung. Wiscons. p. 16. — Acervulis mi- 4039
nutis inconspicuis, in series 2-5 mill. longas digestis; conidiis oblongis, rectis v. leniter curvis, 13-20 \approx 5-6, bicellularibus, hyalinis; septo in majoribus infra medium, in minoribus ad medium sito; cirris pallide carneis.

Hab. in caule *Meliloti* albæ, Madison Amer. bor.

17. **Marsonia smilacina** Thüm. Contr. Myc. Lusit. n. 457. — Acer- 4040
vulis epiphyllis, numerosis, minutissimis, fere punctiformibus, fuscis, emersis in macula irregulari, ochraceo-fusca, indeterminata, non marginata; conidiis paucis, cylindricis, subarcuatis, utrinque truncatulis, medio uniseptatis, achrois, 14-20 \approx 4-5.

Hab. in foliis vivis *Smilacis mauritanicæ* prope Coimbra Lusitaniæ (MOLLER).

STILBOSPORA Pers. Syn. Fung. p. 96, em. Sacc. Mich. II. pag. 11.
(Etym. *stilbos* splendidus et *spora*, ob pulchritudinem conidiorum).
Acervuli subcutanei conoidei v. disciformes, atri. Conidia oblonga v. fuscoidea, 2-pluriseptata, fuliginea, denique cirrose protrusa et atro-inquinantia.

1. **Stilbospora brevis** B. et R. North Am. Fungi n. 477. — Subcor- 4041
ticalis; conidiis oblongis, utrinque obtusis, triseptatis, sero erumpentibus, latitudine sua triplo longioribus.

Hab. in cortice juniore crassioreque *Carpini* in Carolina australi (RAVENEL).

2. **Stilbospora thelebola** Sacc. Mich. II. p. 542, F. ital. t. 1104. — 4042
Acervulis pustulatis, cortice prominulo velatis erumpentibusque, nigricantibus; conidiis cylindraceo-oblongis, rectis, curvulis, flexuosisve, 32-40 \approx 10-11, utrinque rotundatis, 3-5-septatis, ad septa haud constrictis, olivaceo-fuligineis; basidiis conidio brevioribus, acicularibus, hyalinis.

Hab. in ramulis *Alni glutinosæ*, sociâ *Melanconide thelebola*, cujus *Stilbospora* videtur status conidiophorus.

3. **Stilbospora Kickxii** West. Exs. n. 880 et II. Not. p. 32, fig. 6, 4043
Kickx Fl. cr. Fl. II, p. 81. — Pustulis sparsis, parum elevatis, obtusis, peridermium elevatibus et laciniatim findentibus; conidiis exacte piriformibus, basim versus 2-septatis et pallidioribus, loculo superiore maximo, fuligineo; basidiis conidio paullo brevioribus bacillaribus.

Hab. in ramis Betulæ albæ, Courtrai in Belgio. — *Massaricæ loricatæ* st. conidicus.

4. **Stilbospora modonia** Sacc. *Melanconidis modonicæ* status conid. 4044
 Fuck. Symb. myc. p. 189. — Acervulis majusculis, sub corticis epidermide nidulantibus, demum erumpentibus, olivaceo-fuscis; conidiis oblongo-ellipticis, rectis curvatisve, plerumque 6-septatis, fuscis, 50-58 = 14.

Hab. in ramis emortuis Castaneæ vescæ in Rhenogovia.

5. **Stilbospora angustata** Pers. Syn. Fung. p. 96, Sacc. Fungi it. t. 4045
 1103, *Stilbospora macrosperma* Fres. Beitr. tab. VII. f. 48-52. *Sporidesmium angustatum* (Pers.) Corda in Sturm. tab. 22. — Acervulis diu tectis, nigro-brunneis, leniter elevatis, convexis, sæpe confluentibus; conidiis oblongo-cylindraceis, rectis utrinque obtusis, olivaceo-fuligineis, 3-septatis, ad septa leniter constrictis et sæpe strato hyalino obvolutis, 35-45-50 = 10-14; basidiis bacillaribus conidium subæquantibus; paraphysibus cylindraceis, apice subclavatis, 100-150 = 1-2 immixtis.

Hab. in ramis Carpini Betuli nec non, sec. auctores, Corni sanguineæ, Fagi in Italia bor., Gallia, Belgio, Germania. — Adest forma in cortice Eucalypti in Amer. bor. Forma carpinea sistit st. conidicum *Pseudovalsæ macrosporæ*.

6. **Stilbospora macrosperma** Pers. Syn. p. 96, et Disp. fung. p. 14, 4046
 t. III. f. 13. *Sporidesmium macrospermum* Corda in Sturm. t. 21. — Acervulis subcutaneis, atris, dein prominulis et erumpentibus; conidiis oblongo-ellipsoideis, 4-septatis, vix constrictis, pallide fuligineis.

Hab. in ramis corticatis Quercus etc. in Germania et Britannia, in cortice Alni glutinosæ, Coimbra in Lusitania. — *Stilbospora macrosperma* Fresen., Rabenh. F. Eur., Thüm. et Wint. Exs. ad *Stilb. angustatam* referenda est; hinc dubium est, an revera ab hac distinguenda sit, etsi Corda l. c. pinxerit conidia multo crassiora et breviora in *Stilb. macrosperma* quam in *Stilb. angustata*. Differentia ab ætate forte pendet.

7. **Stilbospora quadriseptata** Schw. Syn. Am. bor. n. 2083. — 4047
 Acervulis primum sub epidermide inde varioloso-bullata effusis, sporodochio spurio nigro centrali, demum prominentibus et circum circa sub epidermide et in ea spargentibus magnam copiam conidorum subconglutinatorum; conidiis oblongis, fuligineis, semipellucidis, elongato-quadriseptatis aut quasi ex quatuor globulis internis conformatis.

Hab. in epidermide majorum ramorum et trunci Platani occidentalis cæsi, nec jam corrupti, Bethlehem Amer. bor.

8. **Stilbospora multiseptata** Schw. Syn. Amer. bor. n. 2984. — Acervulis in cortice satis effusis, parum elevatis; sporodochio peritheciato (?), cortice ime ad lignum usque immerso, subsphæriæmorpho et quasi evacuato, post effluxum conidiorum; conidiis magnis lineari-subulatis, utrinque incurvis acuminatis, multiseptatis et lignum aut corticem inquinantibus, ceterum aterrimis, subpellucidis.

Hab. in ramis querneis prope Nazareth Amer. bor.

9. **Stilbospora Staphyleæ** Schw. Syn. Amer. bor. n. 2985. — Acervulis minoribus, rotundatis, nidulantibus sub epidermide elevata; demum rima dehiscentibus; conidiis cano-fuscis, subpellucidis, elongato-ellipticis, utrinque subacutis, multiseptatis; acervulis ceterum gregarie sparsis, numerosis.

Hab. frequens in junioribus ramulis Staphyleæ, Bethlehem (SCHWEINITZ) et Staphyleæ trifoliæ, Helderberg Mount. (PECK).

10. **Stilbospora pinicola** B. et C. North Amer. Fungi n. 478. — Acervulis oblongis erumpentibus; conidiis oblongis, utrinque obtusis triseptatis, articulis uninucleatis, leviter constrictis, 20 = 5-6.

Hab. in dorso foliorum Pini in Amer. bor.

11. **Stilbospora Cacti** Lév. Ann. Sc. nat. 1845, p. 66. — Acervulis (peritheciis Lév.) subglobosis epidermide rupta cinctis; conidiis elliptico-elongatis, 3-septatis, dein effluentibus et maculas minutas atras formantibus.

Hab. ad caules Cacti peruviani in Peruvia.

12. **Stilbospora fumosa** Fée Ess. Crypt. ecore. pag. 24. — Conidiis (theis Fée) rotundo-deformibus, aterrimis dein effluentibus et matricem late fœdantibus.

Hab. in epidermide Cinchonæ floribundæ in officinis servatæ. — «Quum de septis nulla mentio fiat, et conidia subrotunda dicantur an potius *Melanconii* species?».

13. **Stilbospora utriculosa** Schwabe Fl. Anhalt. II. p. 353, t. VI. f. 17. — Acervulis convexis v. planiusculis, plerumque oblongis; conidiis magnis, obovatis, 3-septatis, loculo supremo maximo, hyalino-obvolutis.

Hab. in ramis emortuis Pini Strobi, Anhalt Germaniæ.

14. **Stilbospora militaris** Curr. Microsc. Journ. IV. t. 11, f. 4-9. — Teste Tul. Carp. II. p. 242-243 est fungus fictitius ex *Asterosporio* et *Thyrsidio* ortus.

CORYNEUM Nees Syst. d. Pilze p. 34, Sacc. Mich. II. p. 11. (Etym. *coryne* clava, ob formam conidiorum frequentem) *Seimatosporium* Corda. — Acervuli disciformes v. pulvinati, subcutaneo-erumpentes, atri, compacti. Conidia oblonga v. fusoides, 2-pluriseptata, fuliginea, numquam cirrose expulsa; basidia bacillaria longitudine varia.

I. *Species cauli-ramicolæ.*

1. **Coryneum microstictoides** Sacc. et Penz. in Sacc. Mich. II. p. 633. 4055

— Acervulis gregariis, oblongis, 1 mill. long. $\frac{1}{2}$ mill. cr., epidermide demum fissa velatis, atris, vix tumidulis; conidiis ovato-oblongis, 14 = 5-6, utrinque obtusiusculis, 14 = 5-6, 3-septatis, ad septa vix constrictis, totis fuligineis; basidiis bacillaribus, hyalinis, fasciculatis, 18-20 = 1,5-2.

Hab. in caulibus gelu necatis Pæoniarum cultarum Lyon Galliæ (THERRY). — A *Cor. microsticto* conidiis totis concoloribus præcipue distinguendum.

2. **Coryneum gummiparum** Oud. in Hedw. 1883, p. 131. — Acervu- 4056

lis minutissimis, punctiformibus, atris, gregarie crescentibus; conidiis e pulvinulo parenchymatoso fuscescente oriundis, breviuscule stipitatis, oblongis vel oblongo-obovatis, separatim examinatis dilute fuligineo-olivascentibus, 3-septatis, ad septa minime constrictis, 14 = 6, loculis omnibus æqualibus et æquicoloratis; basidiis hyalinis, conidio (ut videtur) brevioribus, vulgo non rite distinguendis; paraphysibus nullis.

Hab. in rimis gummosis ramorum Acaciæ cujusdam gummiferæ ex Senegal et Arabia.

3. **Coryneum Corni-albæ** (Roum.) Sacc. in Mich. II. p. 355. F. it. t. 4057

1113. *Sphaeria Corni-albæ* Roum. F. Gall. n. 571. — Acervulis gregariis, innato-erumpentibus, pulvinatis, $\frac{1}{2}$ -1 mill. diam., denique epidermide rupta cinctis; conidiis oblongis; utrinque acutiusculis, 20-22 = 9, triseptatis, non constrictis, totis fuligineis, basidiis filiformibus 18-20 = 1 suffultis.

Hab. in ramis Corni albæ emortuis, Perpignan in Gallia (ROUMEGUÈRE).

4. **Coryneum Beyerinckii** Oud. in Hedw. 1883, p. 115. — Acervulis 4058

minutissimis, punctiformibus, atris, gregarie crescentibus; conidiis e pulvinulo parenchymatoso fuscescente oriundis, stipitatis, oblongo-obovatis, dilute olivascentibus, vulgo 3-septatis, ad altitudinem septorum minime constrictis, loculis omnibus æqualibus aut exti-

mis paullo minoribus, subinde colore expertibus; basidiis cylindraceis aut inferne paullulum incrassatis, colore expertibus, hyalinis, conidia longitudine fere æquantibus.

Hab. in trunco ramisque Amygdalarum in Neerlandia fluxum gummosum provocans (BEYERINCK).

5. **Coryneum microstictum** B. et Br. Not. of Br. Fung. n. 451, *Sporocadus rosicola* Rabenh. sec. Fuck., *Seimatosporium Rosæ* Corda in Sturm. tab. 40 (mala). — Tectum; stromate obsoleto; conidiis subpiriformibus v. oblongis, 15-17 = 5-6,5, apice obtusiusculis, 4-ocularibus, loculo infimo subhyalino, ceteris melleis; basidiis bacillaribus, 20-25 = 1,5, hyalinis.

Hab. in ramis languidis v. emortuis Rosæ, Rubi, Kerriæ, Cratægi, Oxyacanthæ, Arbuti, Vitis in Italia, Gallia, Britannia, Germania, Austria, Amer. bor., Algeria. — β . **laurinum**. Differt conidiis brevioribus, nempe 12-15 = 5-6, fuliginis, loculo infimo pallidiore, stipite brevioris, nempe 15 = 1½, hyalino; acervulis hypophyllis, minutis, dein erumpentibus. In foliis Lauri nobilis in Gallia (BRUNAUD).

6. **Coryneum Rubi** (Corda) Sacc. *Didymosporium Rubi* Corda Icon. fung. I. p. 7, fig. 107. — Acervulis elongatis, epidermide tectis, dein erumpentibus, atris, pulveraceis; conidiis ovoideis 2-septatis, non constrictis fuscis; hypostromate spurio corneo, atro.

Hab. in ramulis Rubi prope Reichenberg Bohemiæ.

7. **Coryneum impressum** Pr. F. Hoyersw. n. 166. — Acervulis erumpentibus convexis, medio depressis, atris; stromate celluloso albo; basidiis pedicelliformibus albis, simplicibus vel ramosis, septatis; conidiis luteo-fuscis, oblongis, diaphanis, magnis.

Hab. in cortice Calycanthi floridi, Hoyerswerda.

8. **Coryneum Negundinis** B. et C. North Amer. Fungi n. 480. — Acervulis minutissimis; conidiis brevibus, biseptatis e pedicellis crassiusculis furcatis reticulatisque oriundis, latitudine sua duplo longioribus, pallidis, utrinque attenuatis.

Hab. in ramis Aceris Negundinis in Carolina superiore Americæ borealis.

9. **Coryneum Tecomæ** Sacc. Myc. Ven. Spec. p. 190, t. XVII. f. 20. 21. — Acervulis planiusculis, subrotundis v. angulosis, ¼ mill. d., epidermide laciniatim rupta cinctis; conidiis fusiformibus 5-septatis, loculis extimis acuminatis, hyalinis, ceteris obscure ferrugineis, longe hyalino-stipitatis, 25 = 10, (sine stipite).

Hab. in ramulis Tecomæ radican- tis, Padova in Italia bor.

— Affine *Coryneo microsticto* B. et Br. sed conidia 5-septata non 2-3-septata; habitus *Hendersoniæ*, sed perithecium genuinum nullum.

10. **Coryneum Vaccinii** Fuck. Symb. myc. App. II. p. 81. — Acervulis 4064 gregariis, minutissimis, primo epidermide tectis, demum liberis, hemisphæricis, atro-olivaceis; conidiis lanceolato-subclavatis, 3-septatis, flavis, longissime pedicellatis, $16 \approx 4$.

Hab. in ramulis siccis *Vaccinii Myrtilli* pr. Neuchâtel Helvetiæ (MORTHER).

11. **Coryneum affine** Sacc. in Mich. II. p. 634. — Acervulis subcu- 4065 taneo-erumpentibus, globosis v. oblongis, aterrimis, gregariis; conidiis ellipsoideis, utrinque obtusiusculis, $20-22 \approx 7$, triseptatis, ad septa haud v. vix constrictis, fuliginis, loculis extimis hyalinis; basidiis filiformibus, hyalinis conidium duplum æquantibus.

Hab. in caulibus emortuis *Rumicis*, Rouen Galliæ (MALBRANCHE). — Ab affini *C. microsticto* differt conidiis majoribus, utrinque hyalinis, etc.

12. **Coryneum macrospermum** B. et Br. Ann. N. H. n. 941, t. 15, 4066 f. 12. — Stromate minuto, pulvinate, celluloso; acervulis sparsis, subsuperficialibus; basidiis sursum furcatis; conidiis subcylindraceis, 4-5-septatis, articulis extimis hyalinis.

Hab. in palis *Alni* pr. Batheaston Angliæ. — *Didymosporium macrospermum* Corda rem diversam, monente quoque Fresenio, sistere videtur.

13. **Coryneum intermedium** Sacc. Mich. I. p. 91. Fungi ital. t. 81. — 4067 Acervulis primo epidermide tectis, dein erumpentibus, numquam elevatis, aterrimis, laxiusculis; conidiis e strato hymenico crassiusculo lutescente oriundis longe stipitatis, oblongo-fusoideis, $28-32 \approx 10-11$, 6-ocularibus, loculis extimis minoribus, acutis, hyalinis, ceteris fuliginis; stipitibus fasciculatis, filiformibus, $70 \approx 1\frac{3}{4}$, hyalinis.

Hab. in cortice *Ulmi campestris*, Vittorio; et in ramis corticatis *Populi Tremulæ*, Conegliano in Ital. bor. (SPEGAZZINI). — Ob fabricam conidorum *Coryneum Kunzei* Corda in memoriam revocat, a quo conidiis dimidio et ultra minoribus statim dignoscitur. A *Cor. Tecomæ* Sacc. stipitibus multo longioribus, acervulis compactioribus etc. recedit.

14. **Coryneum compactum** B. et Br. Ann. N. H. n. 449. — Acervulis 4068 minutis, initio epidermide tectis, dein nudis; stromate convexo; conidiis stipitatis late fusiformibus, leniter obtusis, 4-5-septatis, nucleatis; nucleis concatenatis.

Hab. in ramis emortuis Ulmi in Britannia, et Betulæ rubræ in Carolina Amer. bor.

15. **Coryneum pustulatum** Peck 33 Rep. St. Mus. p. 26, t. I. fig. 1-3. 4069

— Acervulis pustuliformibus, cortice immersis, epidermide elevata demum leniter fissa tectis; conidiis longis, subclavatis vel subfusiformibus, coloratis, 6-7-septatis, curvatis nucleatis, 62-75 μ 12-14; basidiis brevibus.

Hab. in ramis emortuis Quercus et Castanæ, Sandlake in America boreali.

16. **Coryneum umbonatum** Nees Syst. d. Pilze p. 34, f. 31, Tul. Car. 4070

pol. II. t. XV. f. 9, Sacc. F. it. t. 1109, *Steganosporium elevatum* Riess Bot. Zeit. 1853, tab. 3, fig. 24-27. — Acervulis erumpentibus, nigris, disciformibus, centro umbonatis; stromate cellulari, brunneo; conidiis late fusoides, fuligineis, anguloso-nucleatis, 42-50 μ 16-18, 5-8-septatis, loculis extimis hyalinis; basidiis bacillaribus, subinde furcatis, hyalinis.

Hab. in ramis dejectis Ulmi, Carpini, Quercus in Italia, Germania, Britannia. — Stat. conidicus *Pseudovalsæ umbonate*. — β . **Prunorum** Sacc. Reliq. Lib. Myc. IV. n. 179. Conidiis late fusoides, 40-45 μ 16, 7-9-septatis, non constrictis, ochraceo-fuscis, vertice apiculato-subhyalinis. In ramis Prunorum in Arduennis.

17. **Coryneum pulvinatum** Kunze et Schm. Myk. Heft. I. t. II. f. 19, 4071

Bonord. Handb. t. 12, f. 240. — Acervulis rotundis, patellaribus, convexis, dein erumpentibus et peridermio cinctis, atris; conidiis fusoides-oblongis, obtusis, 4-5-septatis, leniter constrictis, brunneis; basidiis cylindræis, hyalinis suffultis, 75 μ longis.

Hab. in ramulis dejectis Ulmi, Tiliæ, Aceris in Germania et Britannia, et in ramis Tiliæ americanæ in Amer. bor.

18. **Coryneum salicinum** (Corda) Sacc. *Didymosporium salicinum* 4072

Corda Icon. fung. I. p. 7. fig. 108. — Acervulis hypodermicis, atris, epidermide dein stellatim se rumpente denudatis; conidiis fuscis 10-12 μ longis, 3-septatis, non constrictis; hypostromate irregulari spurio, corneo, atro.

Hab. in ramulis Salicum frigore necatis prope Reichenberg Bohemiæ.

19. **Coryneum maculicolum** Fuck. Symb. myc. p. 372. — Acervulis 4073

in macula expallescete, erumpentibus, epidermide 2-3-fissa circumdatis, oblongis, atris; conidiis longe pedicellatis, oblongis, tri-septatis, flavis.

Hab. in ramis siccis adhuc pendulis Salicis auritæ in Rhénogovia.

20. **Coryneum Kunzei** Corda Ic. fung. IV. p. 46, t. 10, f. 131, Sacc. F. 4074

it. t. 1110, *C. disciforme* Nees, sec. Tul. et Kickx, forte partim tantum, nec Corda. — Acervulis disciformibus, erumpentibus, nigris: conidiis clavato-fusoideis, curvulis, 60-70 \approx 12-14, 6-septatis, non constrictis, 7-guttulatis, olivaceo-fuscis, apice subobliquo obtusiusculo pallidioribus; basidiis filiformibus, subseptatis, 120 \approx 3-4, hyalinis.

Hab. in ramis corticatis *Quercus*, *Fagi*, *Betulæ* in Italia, Britannia, Gallia, Pennsylvania in Amer. bor. — Stat. conid. *Pseudovalsæ longipedis*. — β . **Castaneæ** Sacc. Reliq. myc. Lib. IV. n. 180 (*Steganosporium Castaneæ* Lib. ined.): conidiis longe stipitatis fusoideis, deorsum tenuatis, sub-5-septatis, 50-52 \approx 10-12, fuscis, vertice obtusiusculo subhyalino. In cortice *Castaneæ* in Arduennis.

21. **Coryneum disciforme** Kunze et Schm. Mykol. Hefte I. p. 76, t. II. 4075

f. 18, Oudem. Mat. Myc. Neerl. II. p. 27, t. IX. f. 13. — Acervulis disciformibus, applanatis; conidiis clavatis, deorsum attenuatis, apice obtusiusculis, 5-7-septatis, non constrictis, cuboideo-nucleatis, æqualiter fuligineis, 50-60 \approx 14; basidiis filiformibus, conidium superantibus, continuis, paraphysibus intermixtis.

Hab. in ramulis *Tiliæ*, *Quercus* et *Betulæ* (?) in Germania, Britannia, Hollandia et Lusitania. — A *C. Kunzei* sec. icon. Oudem. l. c. differre videtur conidiis obtusioribus æqualiter coloratis, paraphysibus et basidiis continuis. — Var. β . **ellipticum** B. et Br. Ann. N. H. n. 450: acervulis pulvinatis, transverse erumpentibus, majusculis, crassis, intus albidis; basidiis arcte fasciculatis; conidiis fusoideis, multiseptatis, leniter constrictis, loculis transverse 2-guttulatis. In truncis *Betulæ* in Britannia et America boreali.

22. **Coryneum Notarisianum** Sacc. *Coryneum disciforme* Corda Ic. 4076

fung. III. pag. 36, fig. 91, Tul. Carp. II. tab. XVI. fig. 1-8, nec Kunze et Schm. *Stilbospora affinis* De Not. Sfer. ital. t. 53, f. 7. — Acervulis erumpentibus discoideis, angulatis v. oblongis, atris, hypostromate celluloso-carnoso, fusco; conidiis subclavatis, luteofuscis, 45-50 μ . longis, 5-6-septatis; basidiis simplicibus v. furcatis conidio plerumque longioribus.

Hab. in ramis dejectis *Betulæ* in Bohemia, Gallia et Italia, et *Quercus* in Lusitania. — Conidia, teste Corda, parce subinde longitrorsum divisa, quæ ita non pinguntur a cl. Tulasneo et De Notaris. — Status conid. sine dubio *Pseudovalsæ lanciformis*.

23. **Coryneum fusarioides** Sacc. Mich. II. p. 120, F. it. t. 1112. — Acer- 4077
vulis gregariis erumpentibus, dein pulvinatis varieque tuberculatis, aterrimis, 100-200 μ . diam.; conidiis fusoideo-falcatis, 45 \approx 6, utrinque acutis, 7-8-septatis, 7-guttulatis, fumosis; loculis extimis hyalinis; basidiis filiformibus, subcoalitis, fuligineis.
Hab. in cortice Populi fastigiatae pr. Rouen Galliae (LETENDRE). — Videretur forma malanconiea *Henders. fusarioidis* Sacc.
24. **Coryneum decipiens** B. et C. North Amer. Fungi n. 479. — Acer- 4708
vulis pustuliformibus, minutis, erumpentibus; conidiis oblongis utrinque obtusis, triseptatis, longe pedicellatis, 15 \approx 3.
Hab. in corticibus New-England in Amer. bor. — β . **Castaneæ** B. et C. l. c. conidiis deorsum attenuatis; pedicellis brevioribus.
25. **Coryneum oligosporum** Corda Icon. Fung. V. p. 81, t. IX. f. 73. 4079
— Erumpens, convexiusculum, impressum vel tortuosum, atro-fuscum; stromate aterrimo, duro; conidiis clavatis, luteo-fuscis, subsessilibus, 60 μ . longis, 6-10-septatis, non constrictis, fusco-brunneis; basidiis minutis, abbreviatis.
Hab. in ramis emortuis Coryli prope Prag Bohemiae.
26. **Coryneum confluens** Nees jun. in Kunze Myk. Heft. II. p. 66. — 4080
Acervulis subrotundis, gregariis, mediotenus elevatis, ambitu pulverulentis, nigris; conidiis oblongis obtusis, obsolete 3-septatis, subcoloratis; basidiis tenerrimis.
Hab. ad ramos dejectos Alni rarius in Germania.
27. **Coryneum brachyurum** Link. Sp. p. Fungi II. p. 124. — Acer- 4081
vulis convexis, atris; conidiis ovoideis; basidiis crassiusculis brevibus; paraphysibus intermixtis.
Hab. ad ramos dejectos in agro berolinensi (LINK.) — *C. umbonato* affine dicitur.
28. **Coryneum depressum** Kunze Myk. Heft. II. p. 75, t. II. f. 17. — 4082
Acervulis depressis, atris, epidermide cinctis; conidiis ovato-oblongis, 4-5-septatis, fuscis, apice rotundatis; basidiis filiformibus conidio brevioribus.
Hab. in ramis dejectis quercinis in agro berolinensi. — Affine dicitur *C. brachyuro*. Huc cl. Auerswald (Bot. Zeit. 1851, p. 180) dubitanter ducit suam *Placentariam depressam*, cui tamen tribuit conidia continua.
29. **Coryneum heterosporum** Pr. Fungi Hoyersw. n. 58. — Acervu- 4083
lis erumpentibus, convexis, impressis, atro-fuscis; stromate duro, fusco; conidiis fuscis, aggregatis, majoribus, clavatis, minoribus obovatis, sessilibus, cellulis subquadratis.

Hab. in ramis dejectis, Hoyerswerda.

30. **Coryneum Smilacis** Schw. Syn. Amer. bor. n. 3091. — Acer- 4084
vulis sparsis tectis sub epidermide elevata, tantum poro aut rima
centrali apertis; disco minuto, tum conspicuo; conidiis nigris v. fu-
ligineis, pedicellatis, oblongis aut subcylindricis, septatis, demum
effluentibus.

Hab. in epidermide Smilacis rotundifoliæ, Bethlehem
Americæ borealis.

II. Species foliicolæ.

31. **Coryneum foliicolum** Fuck. Symb. myc. p. 372, Sacc. F. it. t. 1105. 4085
— Maculis epiphyllis, ochraceis, vagis; acervulis punctiformibus,
deplanatis, erumpentibus; conidiis ellipsoideo-oblongis, $17 \approx 6-7$,
3-septatis, ad septa leniter constrictis, olivaceis, loculo infimo sub-
hyalino, stipitibus filiformibus, $15-20 \approx 1\frac{1}{4}$, hyalinis suffultis.

Hab. in foliis Quercus, Cratægi Oxyacanthæ in Ger-
mania; in foliis Rubi fruticosi, Conegliano in Ital. bor.; in fo-
liis Rubi discoloris en la Roca del Riachuelo Reipubl. Ar-
gentinæ.

32. **Coryneum pestalozzioides** Sacc. Mich. I. p. 91, Fungi Ital. p. 82. 4086
— Acervulis minutis, maculas foliorum rufescentes degentibus,
erumpentibus, minutis, aterrimis; conidiis ellipsoideis, $9 \approx 5$, 3-se-
ptatis; loculis 3 interioribus fuscis, extimis obtusiusculis, hyalinis;
stipitibus persistentibus, filiformibus, $12 \approx 1$, hyalinis.

Hab. in foliis languidis Cratægi Oxyacanthæ in silva
Montello Italiæ borealis. — A *Cor. foliicolo* Fuck. differt conidiis
fere dimidio minoribus, brevius stipitatis etc. A *Sporodesmio epi-
phylo* Lév. et *Hendersonia foliorum* Fuck. longius distat.

33. **Coryneum concolor** Penz. in Sacc. Mich. II. p. 452, F. it. t. 1189. 4087
— Acervulis in macula arida, fusco-cincta insidentibus, sparsis,
minimis, punctiformibus, prorumpentibus; stromate depresso; ba-
sidiis brevibus, hyalinis, $10-12 \approx 3-3,5$; conidiis oblongo-ellipticis,
utrinque rotundatis, triseptatis, ad septa modice constrictis, locu-
lis omnibus concoloribus, brunneo-fuligineis, $10-11 \approx 3,5-4,5$.

Hab. in foliis vivis Citrorum in frigidariis, Strà, Cattajo
in prov. patavina Italiæ bor.

34. **Coryneum Rhododendri** Schw. Syn. Amer. bor. n. 3090. — Acer- 4088
vulis minutis, sparsis, per epidermidem folii prorumpentibus, con-
vexulis, atris, intus albescentibus; conidiis dispersis, demum nu-

diusculis, ovalibus aut piriformibus; pedicellis breviusculis, crassis, septatis.

Hab. passim in foliis *Rhododendri maximi*, Bethlehem Americæ borealis.

35. **Coryneum triseptatum** Peck 27 Rep. p. 102. — Maculis latis, 4089
brunneis vel cinereis; stromate obsoleto; acervulis sparsis, minutis, erumpentibus, nigris; conidiis oblongo-piriformibus, 15-18 μ . longis, initio hyalinis et biseptatis, dein 3-septatis; loculis extremis hyalinis, ceteris coloratis; basidiis conidio æquilongis et ab eo facile decedentibus.

Hab. in foliis vivis *Rhododendri maximi*, Forestburgh Amer. bor. — A *Coryneo Rhododendri* probe diversum videtur.

36. **Coryneum epiphyllum** Schw. Syn. Amer. bor. n. 3092. — Acer- 4090
vulis obliteratis, parvis, irregularibus, dense aggregatis, in pagina aversa; conidiis immersis, ovato-cylindricis, subfalcatis, septatis, fuscis; aqua infusa apparent pedicelli longiusculi, pellucidi, pluribus versus basim coalitis.

Hab. vulgare in foliis *Castaneis*, sparsim et nigrificans, Bethlehem Amer. bor.

37. **Coryneum effiguratum** Schw. Syn. Amer. bor. n. 3093. — Acer- 4091
vulis atris difformibus aut stellatim confluentibus, subeffusis, applanatis; conidiis piriformibus, multiseptatis, brevissime pedicellatis.

Hab. subtectum sub villositate paginæ aversæ foliorum *Quercus macropodæ*, Nazareth Amer. bor.

38. **Coryneum juniperinum** Ellis Torr. bot. Club. 1882, pag. 134. — 4092
Acervulis nigris, sphæriæformibus, sparsis vel aggregatis, velutinis; conidiis vermiformi-cylindræis, 6-septatis, fusco-brunneis, 35-40 \approx 6-8, basidiis brevibus, crassis suffultis.

Hab. in foliis vivis *Juniperi communis*, Decorah, Jowa, in America boreali.

39. **Coryneum dubium** Speg. Fungi Arg. pug. II. p. 26. — Acervulis 4093
sparsis, epiphyllis, conico-hemisphæricis, erumpentibus, atro-fulgineis, minutissimis, 70-80 μ . diam.; conidiis fusoides-elongatis, triseptatis, ad septa vix constrictis, loculo supremo elongato-acutato, 40-45 \approx 5-7, deorsum in pedicellum exilem, 20-25 \approx 1-1,5, elongatis, dilute olivaceis.

Hab. in frondibus emortuis *Marchantiæ* speciei cujusdam prope S. José de Flores Reip. Argentinae.

SCOLECOSPORIUM Lib. in Sacc. Mich. II. pag. 355 (Etym. *scolecos* anguis et *spora*). — Acervuli subcutaneo-erumpentes, pulvinati compacti, atri. Conidia fusioidea, fuliginea, pluriseptata, apice in rostrum curvulum pallidius attenuata, basidiis brevibus suffulta. — A *Coryneo* differt conidiis hyalino-rostratis.

1. **Scolecosporium Fagi** Lib. in Sacc. Mich. II. p. 355, Fungi ital. 4094 t. 1091. *Coryneum macrosporum* Berk. Engl. Fl. V. pag. 355, *Sporidesmium vermiforme* Riess in Fres. Beitr. II. p. 51, t. VI. f. 56-58. — Acervulis pulvinatis, depressis, subcutaneo-erumpentibus, dein peridermio cinctis, atris, intus albidis magnitudine et forma variis; conidiis fusioideis, 100-190 \approx 12-15, fuligineis, sursum incurvo-attenuatis seu rostratis, subhyalinis, 7-12-septatis guttulisque, breve crassiuscule stipitatis, loculo infimo pallidiore.

Hab. in cortice fagineo, sociâ *Massariâ macrospermâ*, cujus est stat. conidioph., in Gallia, Germania, Italia, Britannia.

ASTEROSPORIUM Kunze in Flora 1819, p. 225 (Etym. *aster* et *spora*). — Acervuli pulvinati, erumpentes, atri. Conidia stellato-lobata, non concatenata, fusca, radiis seu lobis sursum attenuatis, pluriseptatis. Basidia bacillaria, longiuscula.

1. **Asterosporium Hoffmanni** Kunze in Flora 1819, I. pag. 225, Fres. 4095 Beitr. tab. 5, fig. 10-13, Sacc. F. it. tab. 1102. — Acervulis pustuliformibus, leniter prominulis, obtusis, sæpe inæqualibus, epidermide elevata, dein fissa tectis; stromate albo-luteo, floccoso; conidiis tri-quadri-radiatis, radiis conicis, 25 \approx 16, triseptatis, fuligineis; basidiis bacillaribus, continuis, hyalinis, 35-45 \approx 2.

Hab. in cortice Fagi, Betulæ, in Germania, Italia, Belgio, Gallia, Britannia, Carolina in Amer. bor. — Icon Fresenii l. c. forte conidia germinantia refert.

2. **Asterosporium betulinum** Peck 33. Rep. St. Mus. p. 26, t. I. f. 4-5. 4096 — Acervulis pustulatis, erumpentibus, disco nigro orbiculari; stromate filamentoso; conidiis tri-quadri-radiatis dilute coloratis, radiis oblongo-ovatis vel elongato-conicis, subacuminatis, basi leniter coarctatis, tri-quadri-septatis, 20-37 \approx 8,7-12, basi leniter angustatis, loculis uninucleatis, terminali pallidiore; basidiis filiformibus, conidio longioribus.

Hab. in ramulis Betulæ luteæ, Quaker street Amer. bor.

SEIRIDIUM Nees Syst. d. Pilze p. 22 (Etym. *seira* catena). — Acervuli subcutaneo-erumpentes, atri. Conidia oblonga, 2-pluriseptata, fuliginea, isthmis tenuato-filiformibus interjectis, concatenata.

1. **Seiridium marginatum** Nees Syst. d. Pilze p. 22, fig. 19, Hazsl. 4097
Sph. Ros. p. 214, fig. 23-26, *Coryneum marginatum* Fr. S. M. III. p. 473. — Acervulis planis, nigris, erumpentibus, dein epidermide cinctis; conidiis catenulatis oblongis, 3-septatis, haud constrictis, loculis 2 mediis fuliginosis, extremis conicis, hyalinis in isthmus filiformes, conidia connectentes, abeuntibus; conidiis demum liberis et utrinque longe 1-aristatis, $20 \approx 6$, aristis $25-30 \approx 1,5-2$; basidiis bacillaribus dense fasciculatis, conidium paullo superantibus.
Hab. in ramis corticatis Rosarum in Germania, Hungaria, Helvetia. — *Coryneum marginatum* Hazsl. l. c. h. e. *Seiridium marginatum* Fuck. ad *Pestalozziam* potius pertinet. Cfr.
2. **Seiridium lignicolum** (Corda) Sacc. *Phragmotrichum lignicolum* 4098
Corda Icon. II. p. 9, t. IX. f. 46. — Acervulis minutissimis, atris subimmersis; stromate granuloso, luteolo; basidiis ramosis, interstitiis seu isthmis filiformibus albis; conidiis ovato-oblongis, tri-septatis, 18μ . longis; cellulis mediis fuscis, magnis, guttulis farctis, extremis apiculiformibus, albidis, diaphanis, vacuis.
Hab. in ligno ramorum emortuorum Salicis prope Prag Bohemiæ.
3. **Seiridium Liquidambaris** B. et C. North Amer. Fungi n. 483. — 4099
Pustulis epidermide arcte inclusis, apice carneo; conidiorum articulis ellipticis, breviusculis; isthmis cylindricis.
Hab. in ramis Liquidambaris in Carolina infer.
4. **Seiridium Smilacis** Schw. Syn. Amer. bor. n. 3085. — Acervulis 4100
longissime confluentibus, tamen multo minoribus. nec tam incrassatis; conidiis cylindricis, atro-fuscis, obtusis; pedicellis longissimis contortis albis.
Hab. passim ex caulibus Smilacis caducæ et aliarum specierum erumpens, Bethlehem Amer. bor.

HYALOCERAS Dur. et Mont. Fl. Alg. p. 587 (Etym. *hyalos* vitrum et *ceras* cornu). — Acervuli convexi, erumpentes, minuti, atris. Conidia oblonga, 2-pluriseptata, fuliginosa, apice basique incurvo-1-rostrata. Basidia bacillaria, hyalina. Est *Dochmolopha*, deficiente perithecio.

1. **Hyaloceras Notarisii** Dur. et Mont. Fl. Alg. p. 587, *Stilbospora* 4101
ceratospora De Not. Micr. it. dec. I. n. 10, fig. 10. Thüm. Pilze d. Oelb. p. 28. — Acervulis sine ordine dispositis, minutis, atris, erumpentibus, alte convexis, stromate mucoso; conidiis oblongis,

14-15 \approx 4-5, leniter curvatis, plerumque triseptatis ad septa non constrictis, fuligineo-fuscescentibus, utrinque corniculo setiformi, acuto, incurvo hyalino ornatis; basidiis bacillaribus conidio sesqui-longioribus hyalinis.

Hab. in ramis siccis Oleæ europææ in Sardinia pr. Sassari.

PESTALOZZIA De Not. Micr. ital. Dec. II. n. IX (Etym. a medico et botanophilo italico FORST. PESTALOZZA). — Acervuli subcutanei, subinde demum erumpentes, disciformes v. pulvinati, atrii. Conidia oblonga, 2-pluriseptata, colorata (saltem loculi medii), rarissime tota hyalina, apice hyalino-1-pluriciliata, basidiis filiformibus, hyalinis suffulta. — Genus speciebus forte plurimis duplicatis v. non satis distinctis obrutum, et ulterius inquirendum.

1. *Eu-Pestalozzia*.

Conidia, saltem ex parte, colorata, apice 2-pluri-aristata.

1. **Pestalozzia decolorata** Speg. F. Arg. Pug. I. p. 190. — Maculis 4102 orbicularibus, 2-5 mill. diam., arescentibus, determinatis, pallide melleis, areola angustissima, purpurascenti cinctis; acervulis punctiformibus, minutis, 80-90 μ . diam., subepidermicis, lenticularibus, atris; conidiis unicoloribus, dilute chlorino-fumosis, 25-30 \approx 5, elongato-clavatis, 3-4-septatis, loculo supremo, obtuse rotundatis, tribus rostellis, 15-20 \approx 0,7-0,8, hyalinis ornato, infimo subconico in pedicellum, 5-6 \approx 0,5, brevem et filiformem desinente.

Hab. in foliis vivis Myrtaceæ cujusdam, in paludosis ultra el Riachuelo Reip. Argentinae.

2. **Pestalozzia inquinans** C. et Harkn. in Grevillea. — Acervulis epi- 4103 phyllis, sparsis, immersis, demum fisso-erumpentibus et circa marginem ob conidia effusa inquinantibus; conidiis clavatis, trilocularibus, fuscis, utrinque hyalino-apiculatis, superne setis tribus ornatis, infra breviter pedicellatis, 20 \approx 5, (sine setis).

Hab. in foliis emortuis Eucalypti in California.

3. **Pestalozzia disseminata** Thüm. Contr. Myc. Lus. n. 578. — Acer- 4104 vulis amphigenis sed plerumque epiphyllis, gregariis, numerosis, globoso-conicis, elevatis, primo tectis, demum liberis, aterrimis, sine macula et sine ordine dispositis; conidiis fusiformibus, plerumque rectis, utrinque cuspidatis, regularibus, quinqueseptatis, ad septa non vel vix visibiliter constrictis, vertice angustatis et ciliis tribus rectis, subulatis, hyalinis, 6 μ . longis ornatis, cellulis mediis dilu-

te griseo-fuscidulis, aliis hyalinis, basi in pedicellum brevissimum, caducum, hyalinum angustatis, 20-26 \approx 6-10.

Hab. in foliis emortuis Eucalypti Globuli Labill. pr. Coimbra in Lusitania (MOLLER). — A *Pestalozzia Eucalypti* Thüm. dispositione perithecorum et conidiorum magnitudine bene et certe distincta!

4. **Pestalozzia Eucalypti** Thüm. Contr. Myc. Lus. n. 579. — Acervulis epiphyllis, gregariis, submagnis, aterrimis, solitariis, non confluentibus, conico-emersis; conidiis fuscoideis, quinquecellularibus, ad septa minime constrictulis, vertice basi que angustatis acutatisve, basi in pedicellum 8 μ . longum, hyalinum rectum angustatis, cellulis mediis fusco-fuligineis, aliis parvulis, achrois, vertice ciliis tribus tenuibus 12 μ . longis ornatis, 16-18 \approx 6.

Hab. ad folia arida subputrida vel etiam raro languida Eucalypti Globuli, Coimbra in Lusitania.

5. **Pestalozzia Eugeniæ** Thüm. Contr. Myc. Lus. n. 342. — Acervulis epiphyllis, sparsis, solitariis, sæpe concentricè dispositis, lenticularibus, aterrimis in macula arescendo albida vel dilute grisea, orbiculari vel sinuosa, late fusco-purpureo-cincta; conidiis cylindrico-ellipticis, utrinque acutatis, quinquecellularibus, ad septa constrictis, cellulis mediis cinerescentibus, extimis hyalinis, ciliis in vertice tribus, achrois, 8 μ . long. ornatis, rectis vel leniter arcuatis, 22-24 \approx 6-8.

Hab. in foliis vivis Eugeniæ Micheliæ in hortis Coimbra in Lusitania (MOLLER).

6. **Pestalozzia Myricæ** Ell. et Mart. Amer. nat. Jan. 70. — Maculis irregularibus, castaneo-brunneis, 5-10 mill. diam.; acervulis innato-erumpentibus, epiphyllis, 75 μ . diam.; conidiis ovoideis atrobunneis, biseptatis, 9-12 μ . longis; loculis extimis, hyalinis, arista bipartita; basidiis deorsum attenuatis, 12 \approx 2.

Hab. in foliis viventibus Myricæ ceriferæ, New Florida in America boreali.

7. **Pestalozzia Genistæ** Cocc. et Mor. F. Bol. II. n. 182, fig. II. — Acervulis sparsis, tectis, demum erumpentibus, rotundis oblongisve, atris, longitudinaliter dehiscentibus; conidiis fuscoideis, 2-3-septatis, 17-20 \approx 3-4, fuscis; loculis 2 extimis hyalinis; stipite hyalino 16-20 μ . longo; rostellis terminalibus duobus, divaricatis, inæqualiter longis (breviore 10-12 μ . long., longiore 15-18 μ).

Hab. in ramis Genistæ germanicæ, Pontecchio in Italia.

8. **Pestalozzia polychæta** C. et Harkn. in Grevillea. — Sparsa, tecta de-

mum elevata et stellato-fissa; acervulis mediocribus; conidiis clavatis, trilocularibus, fuscis, utrinque hyalino-apiculatis, superne 4-5-ciliatis, 25 ≈ 8 (sine setis).

Hab. in ramis Sarothamni in California.

9. **Pestalozzia Acaciæ** Thüm. Contr. Mycol. Lusit. n. 576. — A. 4110

cervulis hypophyllis, gregariis vel solitariis, pro ratione magnis, emersis, hemisphæricis, aterrimis in macula valde irregulari, sordide ochracea, late ferrugineo-marginata; conidiis rectis, raro leniter arcuatis, late fusoides, quinqueseptatis, ad septa leniter constrictulis, utrinque angustato-acutatis, cellulis tribus mediis fuliginis, aliis achrois, breve et tenuiter hyalino-pedicellatis, vertice ciliis duobus vel tribus subrectis, hyalinis ornatis, 24 ≈ 9-10.

Hab. in foliis vivis Acaciæ longifoliæ et Acaciæ salignæ Coimbra in Lusitania.

10. **Pestalozzia Siliquastri** Thüm. Contr. Myc. Lus. n. 577. — Acer. 4111

vulis epiphyllis, gregariis, submagnis, pustulæformibus, postremo elevatis; conidiis ejectis zona nigra circumdatis, nitido-atris, in macula irregulari, fusco-ferruginosa exarida et dilacerata; conidiis cylindrico-ellipticis, plerumque leniter arcuatulis, utrinque acutatis et basin in pedicellum hyalinum angustatis, vertice setis tribus achrois, curvatis ornatis, cellulis tribus mediis griseis vel dilute fusco-griseis, aliis hyalinis, 15-18 ≈ 6,5.

Hab. ad folia viva Cercidis Siliquastri, Choupal prope Coimbra in Lusitania.

11. **Pestalozzia Rosæ** West. Not. IV. p. 21 Kickx Fl. cr. Fl. II. p. 4112

79. — Acervulis minutis, albis, densiusculis, epidermide fissa cinctis; conidiis fusiformibus, 20-25 ≈ 10, 3-septatis, loculo superiori hyalino, ceteris pallide brunneis; aristis, 2-3, divergentibus, conidium æquantibus.

Hab. in ramulis Rosarum in Belgio (WESTENDORP).

12. **Pestalozzia Lauro-Cerasi** West. Bull. Ac. Belg. II. Ser. t. XII. 4113

n. 7. — Acervulis hypophyllis, sparsis, nigris, immersis, leniter prominulis, epidermide dein fissa cinctis; conidiis brunneis, fusiformibus, apice truncatis, 2-septatis; loculis duobus superioribus majoribus et brunneis, inferiore minuto, hyalino, aristis 2 hyalinis, divergentibus.

Hab. in foliis emortuis Pruni Lauro-cerasi in Belgio.

13. **Pestalozzia congesta** B. et Br. F. of Ceyl. n. 805. — Acervu. 4114

lis congestis, prominulis, 1-2 mill. diam., brunneis; conidiis oblongis, uniseptatis.

Hab. in pagina inferiore foliorum *Syzygii Jambolani*, *Peradeniya* Ceylon. — «Si conidia vere 1-septata, an novi generis typus?».

14. **Pestalozzia longiseta** Speg. in Sacc. Mich. I. p. 478. F. ital. t. 4115

1120. — Acervulis punctiformibus, lenticulari-subsphæroideis, primo tectis, dein erumpentibus, atris, 100-145 μ . diam., macula rufa nigro-cincta insidentibus; conidiis elliptico-fusoideis, utrinque acuminatis, 20 \approx 8, 4-septatis, ad septa non vel vix constrictis, loculis tribus internis fuligineo-atris, quandoque 2 superioribus intensius coloratis, duobus autem extimis parvulis atque hyalinis, superiore tribus rostellis longissimis, 30-40 \approx 1, ornato, inferiore pedicellum 5-15 \approx 1 gerentibus.

Hab. ad folia viva vel languida *Rubi cæsii*, Susegana in Italia boreali.

15. **Pestalozzia breviseta** Sacc. Mich. I. p. 92, Fungi ital. tab. 84. 4116

— Acervulis minutis, maculas foliorum cinerescens gregarie occupantibus, erumpentibus, atris; conidiis oblongis v. breve fusoides, 25-26 \approx 7, 4-septatis, loculis 3 interioribus fuligineis, extimis acutis cum setis stipiteque hyalinis; setis terminalibus ternis, filiformibus, brevibus, 8-10 \approx 1, stipite filiformi, brevissimo, 3 \approx 1.

Hab. in pagina inferiore foliorum *Piri communis* et *Carpini Betuli*, Selva Italiæ bor., rarius.

16. **Pestalozzia Photiniæ** Thüm. Contr. Funghi Litor. n. 320. — 4117

Acervulis epiphyllis, gregariis, primo epidermide velatis, demum liberatis, hemisphærico-lenticularibus, opaco-nigris in macula sordide fusco-ochracea, arescente, obscure fusco-cincta; conidiis elongato-ellipsoideis, quadrisepatis, pedicellatis, cellulis tribus inferioribus fuscis, cellula terminali hyalina, ad septa maxime constrictis, vertice ciliis tribus longis, curvis, filiformibus, hyalinis ornatis, 20-24 \approx 7-8.

Hab. in foliis vivis *Photiniæ serrulatae*, Pola Istriæ.

17. **Pestalozzia stellata** B. et C. North Amer. Fungi n. 489. — Acer- 4118

vulis stellatis e macula alba oriundis; conidiis subdoliiformibus bisepatis, brevibus; basidiis sursum attenuatis, conidium subæquantibus.

Hab. in foliis *Ilicis opacæ*, *Quercus tinctoriæ*, in Carolina Amer. bor. — In forma *Quercus* deest macula alba.

18. **Pestalozzia annulata** B. et C. North Amer. Fungi n. 490. — 4119

Acervulis punctiformibus e macula alba fusco-cincta oriundis; epidermide, centro excepto, tectis, nigro-annulatis; conidiis fusifor-

mibus 2-3-septatis, 20 μ . longis, basidiis conidium æquantibus deorsum attenuatis.

Hab. in foliis Ilicis, Alabama Amer. bor.

19. **Pestalozzia Ilicis** West. Bull. Acad. Belg. II. ser. VII. n. 5 cum 4120
 icone. — Acervulis epivel hypophyllis, nigris, sparsis, immersis, distincte prominulis, epidermidem dein fissam elevantibus; conidiis fusiformibus, 3-septatis, loculis extimis hyalinis, intermediis brunneis; aristis 2-3, hyalinis, divergentibus conidio longioribus.

Hab. in foliis Ilicis Aquifolii in Belgio (A. P. DUMONT).

20. **Pestalozzia Calabæ** West. 5 Not. Hypox. Belg. p. 13. — Acervulis 4121
 hypophyllis, sparsis, nigris, immersis epidermide pallida dein pertusa tectis; conidiis piriformibus, elongatis, 30 = 10, 3-septatis, loculis superioribus brunneis, infero hyalino; setulis duabus, hyalinis, circ. 10 μ . longis.

Hab. in foliis Calophylli Calabæ in calidario culti, Bruxelles in Belgio.

21. **Pestalozzia rostrata** Zab. in Peck Rep. St. Mus. New York. 4122
Pestalozziæ insidenti habitu similis; conidiis angustioribus 25 μ . long., arista basilari carentibus, loculis mediis quatuor coloratis.

Hab. in cortice Loniceræ et Mali, New Baltimore Amer. bor. (ZABRISKIE). — *Pestalozziæ concentricæ* fructificatione peraffinis, sed habitu et habitatione diversa.

22. **Pestalozzia Evonymi** Vize in Grevillea (ex errore sub nom. *P. Planimi*). 4123
Planimi). — Acervulis atris, emergentibus, epidermidem radiatofindentibus; conidiis fusiformibus, 3-4-septatis, quadri-aristatis, atro-brunneis, 50-60 = 10; pedicellis longe attenuatis, hyalinis; aristis 45-55 μ . longis.

Hab. in ramis et foliis emortuis Evonymi in California (HARKNESS). — «Stirpem nullam sub *Planimi* nomine inveni, hinc (cum matrix sit *Evonymus*) *Evonymi* pro *Planimi* legendum censeo».

23. **Pestalozzia neglecta** Thüm. Contr. Myc. Lusit. n. 343. — Acervulis 4124
 epiphyllis, numerosis, parvis, subglobulosis, liberis, atris, gregariis; conidiis fusiformibus, brevipedicellatis, utrinque angustato-acutatulis, quinque-cellularibus, cellulis mediis tribus fuscis, magninucleatis, cellulis extremis hyalinis, vertice cum ciliis tribus achrois, brevibus, curvatis, ornatis, 25 = 6.

Hab. in foliis emortuis Evonymi japonici, Coimbra in Lusitania.

24. **Pestalozzia brevipes** Cooke in Grevillea. — Acervulis sparsis, 4125

minutis, tectis, apice perforatis; conidiis subsessilibus, ellipticis, biseptatis, pallide fuscis, 3-4-aristatis, $18 \approx 7,5$.

Hab. in petiolis *Araliæ spinosæ*, Gainesville, Florida.

25. **Pestalozzia microspora** Speg. Fungi Arg. Pug. II. p. 37. — Acer- 4126

vulis amphigenis, laxe gregariis, conico-hemisphæricis, atris, erumpentibus, $\frac{1}{4}-\frac{1}{3}$ mill. diam.; conidiis elliptico-fusoideis, 18-20 \approx 5-6, 4-septatis, loculis tribus interioribus fuligineis, duobus extimis hyalinis, apice 3-5 setulis hyalinis, 10-15 \approx $\frac{1}{2}$ ornatis, deorsum pedicello parvulo 5 \approx 1 suffultis.

Hab. in foliis emortuis dejectis *Hederæ Helicis* in horto del Collegio Argentino, Buenos Aires Amer. merid. — An varietas *P. funereæ* Desm.?

26. **Pestalozzia Thümenii** Speg. in Thüm. Pilze des Weinstockes p. 4127

14. — Acervulis oblongo-depressis, primo epidermidem tumefacientibus, dein longitudinaliter erumpentibus, 300-350 μ . longis, 60-90 μ . crassis; conidiis cuneiformibus, deorsum attenuatis, ex hyphis repentibus, fuligineis, septulatis, 3-4 μ . crassis oriundis, quinquelocularibus, dilute olivaceis; loculis duobus extimis vix pallidioribus, omnibus plus v. minus guttulatis, 35 \approx 6, pedicello versiformi ac varia longitudine, 5-10 \approx 2-2,5; loculo supremo inæquali cymbiformi, duobus rostellis crassiusculis, hyalinis, 15 \approx 1,3 donato, uno e vertice, altero e latere orientibus.

Hab. in baccis maturis *Vitis viniferæ* pr. Conegliano in Italia boreali (SPEGAZZINI).

27. **Pestalozzia uvicola** Speg. in Thüm. Pilze des Weinstockes p. 13. 4128

— Acervulis e globoso lenticularibus, quandoque conoideis, atris, subepidermicis, erumpentibus et epidermide lacerata circum circa parum dealbata cinctis, 300-400 μ . diam.; conidiis fusiformibus, 5-locularibus; loculis tribus mediis dilute olivaceo-fuscis, quandoque guttulatis, duobus extimis hyalinis, 35 \approx 8-10, inferiore basidium conidii longitudinem subæquans gerente, 25-30 \approx 1, superiore tribus rostellis vel ciliis 8-10 \approx 1 donato.

Hab. in baccis maturis *Vitis viniferæ*, Conegliano in Italia boreali.

28. **Pestalozzia pezizoides** De Not. Micr. ital. Dec. III. p. 28, f. IX. Sacc. 4129

Myc. ven. Spec. p. 199, t. XVII. f. 28. — Acervulis gregariis v. sparsis, innato-erumpentibus, disciformibus, dein scutellato-pezizoideis, atris, subinde confluentibus; conidiis fusoideis, 5-locularibus; loculis interioribus fuscis, extimis hyalinis, 33-40 \approx 8-9, stipite prælongo, 50-60 \approx $1\frac{1}{2}$; rostellis, 5-7 patentibus, brevibus, raro furcatis.

Hab. in sarmentis dejectis *Vitis viniferæ* et ripariæ in Italia, Gallia, Amer. bor.; in lignis putrescentibus *Juglandis*, Lyon in Gallia.

29. **Pestalozzia Fuchsiae** Thüm. Contr. Myc. Lus. n. 344. — Acer- 4130
vulis vel cæspitibus sparsis, minutis, dilute fuscis, globulosis, epiphyllis in macula plus minusve orbiculari, arescendo fusco-ochracea, obsolete concentrice zonata, anguste purpureo-cincta; conidiis numerosis, late fusiformibus, utrinque acutatis, quinquecellularibus, cellulis extremis hyalinis, ceteris cinereis, ad septa leniter constrictis, 20-21 \approx 7, vertice ciliis tribus achrois, subarcuatis, 6 μ . long.

Hab. ad folia viva *Fuchsiae coccineæ*, Coimbra in horto botanico (MOLLER).

30. **Pestalozzia Osyridis** Thüm. Contr. F. Litor. n. 318. — Acervu- 4131
lis gregariis, minutis, epidermide primo tectis, postremo poro pertusis, hemisphæricis, opaco-nigris; conidiis elongato-fusoideis, rectis vel sæpe parum curvis, 22-28 \approx 7, cellulis mediis tribus fuscis, aliis hyalinis, utrinque acutissimis, vertice ciliis duobus vel tribus hyalinis, curvis, brevibus ornatis.

Hab. in ramulis tenuibus emortuis *Osyridis albæ*, Pola in Istria.

31. **Pestalozzia mangalorica** Thüm. F. Exot. n. XVI, in Rev. Myc. 4132
— Acervulis epiphyllis, punctiformi-applanatis, sparsis, emersis, minimis, nigris in macula irregulari-orbiculari, arescendo albicante, subtus ferruginea; conidiis orculæformibus, 5-septatis, utrinque loculo acuto hyalino, angustato ad septa non constrictis, vertice pilis tribus hyalinis ornatis, basi longipedicellatis, 15 \approx 7 (parte colorata).

Hab. in foliis vivis *Brideliæ scandentis*, Mangalore terræ Canaræ Ind. or. (Dr. KECK).

32. **Pestalozzia Oxyanthi** Thüm. Contr. Myc. Lusit. n. 574. — Acer- 4133
vulis amphigenis, dense gregariis, hemisphæricis vel applanatis, aterrimis, pulveraceis, subinquantibus, sine macula; conidiis fusiformibus, rectis vel paullulum arcuatis, quinqueseptatis, utrinque acutatis, cellulis tribus mediis fumoso-griseis, aliis hyalinis, ad septa non constrictis, vertice ciliis duobus vel tribus brevibus caducis ornatis, 15-18 \approx 5,5-6,5, basi in pedicellum brevem arcuatum achroum angustatis.

Hab. ad folia emortua *Oxyanthi pubescentis*, Coimbra Lusitaniæ in calidariis horti botanici (MOLLER).

33. **Pestalozzia versicolor** Speg. in Sacc. Mich. I. p. 479. — Acer- 4134

vulis globoso-lenticularibus, primo subepidermicis, dein erumpentibus et circum circa ex conidiis exsurgentibus matricem atro-inquinantibus; conidiis fusoides, 4-septatis, $30 \approx 10$, loculis 2 extremis hyalinis, 2 internis superioribus atro-olivaceis, tertio inferiore amœne flavo-virescente, 3-guttulatis; loculo supremo conoideo, 3-4 rostella, $25-30 \approx 1$, gerente, infimo inflatulo quandoque 1-guttulato in pedicellum, $5-8 \approx 1$, desinente.

Hab. ad folia dejecta putrescentia Nerii Oleandri, Conegliano in Ital. bor. — β . **Americana** Speg. Pug. Arg. IV. n. 310: acervulis elongatis, hysteriatim erumpentibus, $0,5-1,5 \approx 0,2-0,3$ mill., atris; conidiis obovato-fusoides, $40-45 \approx 10$, 4-septatis, loculis duobus extremis minutis, hyalinis, 2 internis superioribus intense olivaceis, tertio inferiore fulvo-olivaceo, eguttulatis; loculo supremo 3-4 rostellis $30-35 \approx 1$ ornato, infimo inflatulo pedicello parvo $5-8 \approx 1$ suffulto. In culmis Scirpi palustris in Argentina.

34. **Pestalozzia funerea** Desm. in Ann. Scienc. nat. XIX. 1843, pag. 4135 235, F. Ital. t. 1115. — Acervulis sparsis, punctiformibus, atris, epidermide tectis, demum prorumpentibus; stromate depresso, albido; conidiis oblongo-fusoides, 5-locularibus, ad septa paululum constrictis, loculis 3 interioribus fuscis, 2 extremis, conoideis hyalinis, $22-32 \approx 6-8$, apice rostellis 2-5 patenti-recurvis, hyalinis $10-15 \approx 0,7-1$ ornatis; basidiis brevibus $5-9 \approx 1-1,5$.

Hab. in foliis ramulisque emortuis Thujæ, Cupressi, Cryptomeriæ, Araucariæ, Taxi, Taxodii, Sequojæ, Juniperi, Pinorum, Podocarpi (*P. Cesatii* Rabenh. F. E. n. 1932), nec non, sec. auctores, Citrorum, Smilacis, Eucalypti etc. in Gallia, Germania, Britannia, Italia, Austria, Belgio, Amer. bor. Sec. cl. Spegazzini in Mich. I. p. 478, sequentes speciei formæ venetæ distingui merentur, quæ forte a quibusdam ut species propriæ sumptæ sunt. — α . **typica**: conidiis 4-septatis; loculis tribus interioribus atro-olivaceis, $30-35 \approx 7-8$; rostell. 3, $15 \approx 1$; stip. $5-10 \approx 1$. In foliis vivis vel emortuis Pteridis aquilinæ, Photiniæ serrulataæ, Eucalypti Steweniani, Rubi fruticosi, Evonymi chinensis, Thujæ et Cupressi etc. — β . **crassipes**: conidiis oblongo-fusoides, 4-septatis; 3 loculis internis atro-olivaceis, $20-30 \approx 7$; rost. 3, $10-12 \approx 1$; stip. $5-10 \approx 3-3\frac{1}{2}$. In ramulis emortuis Loniceræ Caprifolii, Conegliano. — γ . **multiseta**: conidiis elliptico-elongatis, utrinque acutis; 3 loculis internis atro-olivaceis, $25-30 \approx 9-10$; rost. $5-10$, $7-10 \approx 1$; stip. $5-7 \approx 1$. In foliis dejectis Iridis Germanicæ, Conegliano Ital. bor.,

Rhododendri arborei in Gallia. — δ . **discolor**: conidiis oblongo-fusoideis, 4-septatis; 3 loculis internis olivaceis, loculo medio intensius colorato, 25-30 \approx 7-8; rost. 4-5, 15-20 \approx 1; stip. 8-10 \approx 1. In foliis emortuis Buxi sempervirentis et Scrophulariæ caninæ, Tarzo prope Conegliano. — Quibus addo: α . **punctiformis** Sacc. Mich. II. p. 284: acervulis minutissimis, nigris, amphigenis; conidiis normalibus, 25 \approx 6-7, breve 3-aristatis breveque stipitellatis. In foliis emortuis Fagi silvaticæ in horto patavino. Ab affini *P. Guelpini* basidiis brevibus tantum forte differt, et dubium est, auctores multos utramque sæpe confudisse.

35. **Pestalozzia cupressina** Niessl. Hedwig. 1883, p. 188. — Acervulis 4136
disseminatis, planiusculis, orbicularibus, peridermio lacerato cinctis, atris; conidiis oblongis vel subclavatis, rectis, biseptatis, loculis nucleatis, longe pedicellatis, 18-21 \approx 8-9 (sine pedicello), atrofuscis, 4-6-rostellatis; rostellis rectis, divergentibus.

Hab. in ramulis emortuis Cupressi glaucæ, Coimbra in Lusitania.

36. **Pestalozzia fœdans** Sacc. et Ell. Mich. II. p. 375. — Acervulis 4137
densissime gregariis, innato-erumpentibus, pulvinatis, atris; conidiis fusoideis, 5-ocularibus, ad septa non constrictis, 22 \approx 5,5-6,5; loculis 3 interioribus fuliginis, guttulis, extimis hyalinis, acutis; setulis apicalibus ternis 15-17 \approx 1; stipite 5-8 \approx 1.

Hab. in cortice Thujæ, Newfield N. J. Am. bor. (ELLIS). — A *Pest. funerea*, cui affinis, præsertim conidiis angustioribus differt.

37. **Pestalozzia Cryptomeriæ** Cooke in Grev. XII. p. 24. — Acervulis 4138
foliicolis sparsis, tenuibus, subprominulis, convexis; conidiis lanceolatis, longe stipitatis, 3-ocularibus, fuscis, utrinque hyalino-apiculatis, 12 \approx 3,5, triciliatis.

Hab. in foliis Cryptomeriæ in Carolina austr. (RAVENEL). — A *P. funerea* rite diversa.

38. **Pestalozzia conigena** Lév. in Ann. Sc. nat. 1846, V. p. 285. — 4139
Acervulis gregariis innatis globosis, intus nigris, epidermide lacerata cinctis; conidiis fusoideo-elongatis in stipitem attenuatis, 4-septatis, leniter constrictis; loculis 3 mediis fuscis, terminalibus, hyalinis, 20-24 \approx 6-7,5; aristis apicalibus, 3-4 pellucidis.

Hab. in strobilis Thujæ occidentalis, Pini silvestris, P. rigidæ in Gallia, Sibiria, Belgio, Germania, Austria.

39. **Pestalozzia strobilicola** Speg. Mich. I. p. 479. *P. Stevensonii* 4140
Peck (teste ipso). — Acervulis primo lenticularibus tectis, dein conoideis, erumpentibus, $\frac{1}{4}$ - $\frac{1}{3}$ mill. diam., atris gregariis, rarius

sparsis; conidiis elliptico-fusoideis, utrinque acuminatis, 3-septatis, $25 \approx 9$; loculis 2 internis atro-fuligineis, 2 extimis autem hyalinis, superiore 3-4 rostellis, $22-30 \approx 1$ ornato, inferiore pedicellum, $5-10 \approx 1$, gerente.

Hab. ad strobilos putridos Pini silvestris etc., Susegana Ital. bor. et in Amer. bor.

40. **Pestalozzia insidens** Zab. in Peck. Rep. on the St. Mus. New York. — Acervulis.....; conidiis 5-septatis; loculis 4 centralibus coloratis, $28-37 \mu$. longis, aristis longis apice coronatis.

Hab. in cortice Ulmi, New Baltimore (ZABRISCKIE), Greene County (PECK).

41. **Pestalozzia Mori** (Cast.) Mont. Cent. VI. n. 30 in Ann. 3, XX. p. 44. Syll. Crypt. n. 934, *Sphaeria Mori* Cast. Mars. p. 175. — Acervulis gregariis, hemisphærico-conicis, subdimidiatis, innato-erumpentibus, cuticula canescente primo tectis, atris opacis, tandem elabentibus; conidiis fusiformibus quadrisepatis, 20μ . long.; loculis 3 mediis coloratis, extimis hyalinis, altero fine bicornibus.

Hab. in cortice Mori prope Marseille Galliæ.

42. **Pestalozzia stictica** B. et C. North Amer. Fungi n. 485. — Acervulis minutissimis; conidiis subdoliiformibus, biseptatis, parte colorata $15 \approx 15$, addito utrinque loculo minuto hyalino supero aristas infero basidium breve gerente.

Hab. in foliis Platani occidentalis, Tiliæ, Santee River Amer. bor.

43. **Pestalozzia hysteriiformis** B. et C. North Amer. Fungi n. 487. — Acervulis minutis e macula arida decolorata concentrice zonata oriundis; conidiis breviter fusiformibus, biseptatis; pedicellis hyalinis elongatis.

Hab. in foliis Quercus nigræ, Aiken in Carolina America boreali.

44. **Pestalozzia Castagnei** Desm. XIII. Not. p. 64, *Robillarda glandicola* Cast. Mars. p. 205. — Acervulis nigris vel cinereis, epidermide fissa tectis; conidiis fusiformibus, apice obtusis, 4-septatis, $22-25 \mu$. longis; loculis intermediis 3 semiopacis, terminalibus hyalinis, aristis 3 divergentibus, basidia subæquantibus; basidiis conidio dimidio brevioribus.

Hab. in glandibus quercinis in Belgio et Gallia. — A *P. Guepini* differt conidiis longioribus et crassioribus aristisque multo brevioribus; a *P. funerea* conidiis angustioribus et loculis fuligineis ternis nec quaternis.

45. **Pestalozzia Guepini** Desm. in Ann. Sc. nat. 1840, XIII. p. 182, 4146
 tab. 4, fig. 1-3. — Acervulis minutis, punctiformibus, convexulis, nigris, tectis dein epidermide fissa erumpentibus; conidiis fusiformibus, 20 μ . longis, 3-4-septatis; loculis intermediis semiopacis, terminalibus conoideis hyalinis, aristis 3-4, hyalinis, divergentibus, basidio paullo longioribus; basidiis hyalinis conidium æquantibus.
Hab. in foliis Camelliæ japonicæ, Camelliæ reticulatæ, Rhododendri maximi, Citri, Amygdali, Smilacis, Magnoliæ, Lagerstrœmiæ in Italia, Belgio, Anglia, Austria, America boreali. — Typus in Camellia occurrit; an formæ in ceteris matricibus indicatæ eodem sint, forte dubitandum.
46. **Pestalozzia lignicola** Cooke Handb. n. 1403, p. 472. — Acervulis (peritheciis?) semiimmersis, lateraliter compressis, nigris vertice ob pressionem lateralem elongato; conidiis 3-septatis; loculis 2 interioribus brunneis, 2 extimis hyalinis; rostellis 2-4 hyalinis simplicibus; basidiis longissimis.
Hab. in fragmentis ligneis putridis in Britannia, in lignis pineis, Acaciæ, Salicis, Rosæ in Italia, Gallia, Argentina. — Forte est mera forma lignicola *P. truncatæ*. In exemplaribus venetis adsunt conidia 3-septata, loculis 2 interioribus primo flavidis, dein atro-olivaceis, 2 extimis hyalinis, 12-18 \approx 4-7, loculo supremo 2 rostellis, 20-25 \approx 1, ornato, inferiore in pedicellum, 20-30 \approx 1, desinente.
47. **Pestalozzia truncata** Lév. Ann. Sc. nat. 1846, V. p. 285, *Didymosporium truncatulum* Corda Ic. fung. VI. fig. 16, *Pestalozzia truncatula* (Corda) Fuck. Symb. Myc. p. 391, t. I. fig. 43, a. b. — Acervulis gregariis globoso-depressis, innato-erumpentibus, intus nigris; conidiis ovatis v. oblongis, sæpe inæquilateralibus, stipitatis 4-cellularibus, cellulis 2 mediis majoribus, cuboideis, fuliginis, guttulis, extimis minutissimis hyalinis, supera in cilia 2-4 abeunte, infera in basidium filiforme conidium superans, utraque denique secedente et conidium truncatum 1-septatum 16-17 \approx 9 muticum relincente.
Hab. in ramis et ligno Quercus, Fagi, Padi, Eucalypti, Salicis, Populi, conis Abietis, caulibus Hyperici etc. in Gallia, Bohemia, Italia, Germania, California.
48. **Pestalozzia heteromorpha** Thüm. Contr. Myc. Lusit. n. 575. — 4149
 Acervulis amphigenis, densissime gregariis, hemisphærico-emersis, nitide fusco-atris, magnis, sine ordine dispositis et sine macula; conidiis fusiformibus, plerumque arcuatis, tri-raro quadricellularibus,

cellula apicali hyalina, acutata et ciliis tribus longissimis, rectis, subulatis, achrois ornata, cellulis ceteris dilute griseis, ad septa subconstrictis, in pedicellum longum angustatis, 18-22 \approx 5.

Hab. ad folia arida Polygoni platycodontis, Coimbra in Lusitania. — Species valde insignis!

49. **Pestalozzia compacta** B. et C. North Amer. Fung. n. 488. — 4150

Pustulis elevatis, distinctis, medio perforatis; conidiis anguste tri-septatis, brunneis, *P. Guepini* similibus.

Hab. in caulibus Humuli Lupuli in Carolina infer. Am. bor.

50. **Pestalozzia hypericina** Ces. in Kl. Herb. myc. II. n. 64, Bot. Zeit. 4151

1855, p. 599. — Acervulis lineolatis, nigris, sæpe rimose dehiscentibus v. fatiscentibus; nucleo pallido; conidiis 3-septatis, curvis, pellucidis, utrinque bisetis, setis simplicibus divaricatis, imo reflexis conidii longitudine, loculo conidiorum inferiori e mediis ampliore.

Hab. in caulibus corticatis et decorticatis Hyperici perforati in Italia superiore.

51. **Pestalozzia caulicola** Lév. in Ann. Sc. nat. 1846, V. p. 285. — 4152

Acervulis sparsis, innatis, globosis, nigris, ostiolis erumpentibus conicis pertusis; conidiis ovatis, 3-4-ocularibus, aristis 4-5 simplicibus vel ramosis.

Hab. in caule Cirsii lanceolati, Paris in Gallia.

52. **Pestalozzia Moorei** Harkn. Calif. F. p. 14. — Acervulis subcu- 4153

ticularibus, in maculis pallidis orbicularibus, erumpentibus et matricem inquinantibus; conidiis fusiformibus, 3-septatis; loculis duobus mediis pallide brunneis, oblongo-nucleatis, ceteris hyalinis et acute conicis; basidiis conidium æquantibus vel duplo longioribus, e conidio facile secedentibus, aristis 4 conidio duplo longioribus, 32 \approx 9.

Hab. in caulibus emortuis Hosackiæ glabræ, Antioch in California.

53. **Pestalozzia herbicola** Sacc. Myc. ven. Spec. pag. 199, tab. XVII. 4154

f. 27. — Acervulis convexo-planis, erumpentibus; conidiis fusoides 5-ocularibus; loculis 3 interioribus fuscis, guttulatis, 2 extremis hyalinis, 25 \approx 6, stipite hyalino, 10 μ . longo; rostellis 3 patentissimis, hyalinis, 15 μ . longis.

Hab. in foliis exsiccatis Stellariæ Holosteæ et Galii silvatici in silva Montello agri tarvisini in Ital. bor.

54. **Pestalozzia torulosa** B. et C. North Amer. Fungi n. 486. — 4155

Acervulis parvis, sparsis vel e macula nigra oriundis; conidiis bi-

septatis constricto-torulosis, 25-37 μ . longis; loculis extimis subinde brunneis.

Hab. in seminibus Citrulli vulgaris in Carolina. — Conidia utrinque aucta sunt locello minuto hyalino, altero aristas altero basidium gerente.

55. **Pestalozzia capitata** Ellis Torr. Bot. Club. 1882, p. 133. — Acervulis hysteriiformibus, erumpentibus, minutis, subseriatis dein confluentibus, puccinioideis; conidiis clavato-oblongis, 3-septatis, loculo inferiori hyalino, ceteris brunneis, parte colorata 15 \approx 7,5; arista tripartita conidium subæquante, divaricato-capitata. 4156

Hab. in foliis emortuis Xerophylli asphodeloidis in America boreali.

56. **Pestalozzia clavata** C. et Ell. in Grevillea t. 99, fig. 7. — Acervulis punctiformibus, congestis vel circinatis, e macula pallida fusco-cincta oriundis; conidiis subclavatis, tricellulatis, loculo infero hyalino, parte colorata, 22 \approx 8, pedicellis hyalinis, distinctis; aristis ternis conidium æquantibus. 4157

Hab. in foliis Smilacis, New Jersey Amer. bor.

57. **Pestalozzia Phœnicis** Vize Grev. V. p. 14. — Maculis brunneis; acervulis minutis, atris, nitidis, subimmersis, hinc illinc cæspitosis; conidiis subfusiformibus, 4-septatis, bicristatis, longe pedicellatis, articulis tribus intermediis brunneis, 18 \approx 7 (p. colorata). 4158

Hab. in foliis Phœnicis dactyliferæ in India.

58. **Pestalozzia Palmarum** Cooke in Grevillea t. 86, fig. 3. — Erumpens, atra, gregaria vel sparsa; acervulis sphæriæformibus; conidiis fusiformibus, quadriseptatis, pallide fuscis, triaristatis, stipite elongato, hyalino, 15 \approx 5-6 (parte colorata). 4159

Hab. in fructu germinante et foliis putrescentibus Cocos nuciferæ, Demerara et Bengal Asiæ.

59. **Pestalozzia macrospora** Ces. in Kl. H. Myc. n. 1663, Sacc. Fungi Ven. V. p. 198. F. it. t. 1114, *P. Pteridis* Sacc. in Thüm. Mycoth. Univ. n. 83. — Acervulis gregariis, subcutaneis, depressis, atris, subinde confluentibus et erumpendo fœdantibus; conidiis fusoides, 40 \approx 7-8, 5-ocularibus; loculis 3 interioribus dilute olivaceis, extimis hyalinis; ciliis plerumque 5 filiformibus, 18-20 μ . long., arcuato-patulis, sæpe ramulosis; stipite conidiorum filiformi 5-6 μ . long., hyalino. 4160

Hab. in frondibus languidis Pteridis aquilinæ prope Vercelli et Treviso Ital. bor.

II. *Monochætia* Sacc.

Conidia saltem partim colorata, apice 1-aristata.

60. **Pestalozzia monochæta** Desm. Ann. Sc. nat. 1848, p. 355, Sacc. 4161
F. ital. t. 1119 et Myc. Ven. Spec. p. 198, t. XVII. f. 25, *Cory-
neum rostratum* Fuck., *Pestalozzia Peckii* Clint. in Peck. Rep.
— Acervulis sparsis gregariisve sæpe hypophyllis, maculas varias,
arescentes occupantibus, atris sæpe inquinantibus; conidiis fusoi-
deis, 4-ocularibus; loculis 2 interioribus fuscis, 2 extimis hyali-
nis, 10 \approx 4; stipite hyalino, 18-20 μ . longo, rostello apicali sub-
recto 5-6 μ . longo.
Hab. in foliis exsiccatis *Quercus pedunculatæ*, *Q. albæ*
Castaneæ et *Eucalypti* in Gallia, Italia, Germania, Belgio,
Amer. bor. — β . **Libertiana** Sacc. Mich. II. p. 634: conidiis paullo
longioribus, nempe 15 \approx 4-5, triseptatis; loculis intermediis fuligi-
neis extimis hyalinis; rostellum 6 \approx 1/2 obliquum. In ramulis *Sambuci*
in Arduennis (LIBERT).
61. **Pestalozzia Saccardoi** Speg. in Sacc. Mich. I. p. 480. — Acer- 4162
vulis parenchymate immersis, punctiformibus, densiuscule grega-
riis; conidiis 4-septatis, 20 \approx 5; loculis 3 internis atro-opacis, 2
extimis hyalinis; superiore acute conoideo, majusculo 1 rostellum
singulum e basi curvato-uncinatum hyalinum 10-15 \approx 1 1/2 geren-
te, inferiore in pedicellum, 30-40 \approx 2, desinente.
Hab. ad folia dejecta putrescentia *Quercus*, Conegliano et in
silva Montello Ital. bor.
62. **Pestalozzia concentrica** B. et Br. North Am. Fungi n. 491. — 4163
Acervulis concentricis e macula pallida oriundis; conidiis trisepta-
tis, 10 μ . longis ut plurimum monochætis, arista obliqua, rarius
trifida.
Hab. in foliis *Piri*, *Cratægi*, *Castaneæ* et *Quercus vi-*
rentis in Carolina et Florida Americæ bor. — *Pestalozziæ mo-*
nochætæ proxima.
63. **Pestalozzia bicornis** Dur. et Mont. Fl. Alg., I. p. 586. — Epi- 4164
phylla, depazeoides; acervulis (peritheciis?) sphæricis, pachyder-
maticis, innatis, 300 μ . diam., epidermide dealbata, fissa, tandem pro-
minulis; conidiis oblongis 2-3-ocularibus, appendice singula cur-
vata utroque fine coronatis, 15 \approx 6,5.
Hab. in foliis *Phillyreæ mediæ* et *Quercus*, Stora et Alger
(DURIEU). — Si adest peritheciium aptius ad *Cryptostictim* refe-
rendum genus.

64. **Pestalozzia monorhincha** Speg. F. Arg. Pug. IV. n. 311. — A *Pest.* 4165
decolorata, cui affinis, recedit conidiis majoribus, 20-30 \approx 6-7, semper tantum 3-septatis; loculis internis chlorinis, 2 extimis hyalinis, supero in rostellum sublaterale apice sæpius curvulum producto.

Hab. in foliis languidis Eugeniæ unifloræ, in dumetis uliginosis, Quilmes Argentinae.

65. **Pestalozzia compta** Sacc. Mich. II. p. 542, F. ital. t. 1116. — 4166
 Maculis epiphyllis e circulari angulosis, ochraceis, vix discolori-marginatis; acervulis sparsis innato-erumpentibus, circulari-inæqualibus, atris; conidiis oblongo-fusoideis, 9-10 \approx 4,5-5, utrinque acutiusculis, 4-locularibus, vix constrictis; loculis 2 intermediis fuligineis, extimis hyalinis, setula apicali unica stipiteque filiformibus, hyalinis, 18-20 \approx 0,7.

Hab. in foliis languidis Rosæ muscosæ, Selva in Ital. bor. 4167

66. **Pestalozzia americana** Mont. Fl. Chil., VII. p. 481, et Syll. Crypt. n. 931. — Epiphylla; acervulis (peritheciis?) ovoideis, folio immutato innatis, tandem in ostiolum subprominentibus attenuatis; conidiis oblongis, pedicellatis, biseptatis, fuscis, apice unicornibus.

Hab. in foliis dejectis in Chile (GAY).

67. **Pestalozzia Jefferisii** Ell. in Torr. Bot. Club. 1883, p. 133. — 4168
 Acervulis nigris, planis, erumpentibus, sparsis; conidiis ellipticis, 5-septatis, brunneis, loculis terminalibus hyalinis, 18-20 \approx 7,5-9, basidiis longis, gracilibus suffultis, apice arista brevi obliqua, 5,5-7 μ . longa auctis.

Hab. in Viburno prunifolio, West Chester Amer. bor.

68. **Pestalozzia unicornis** C. et Ell. in Grevillea — Acervulis lirellæformibus, atris; conidiis cylindricis, 5-septatis, brunneis; cellulis ultimis hyalinis, superne unicornutis, inferne longe stipitatis, 35 \approx 8.

Hab. in ligno Cupressi thyoidis, New Jersey Amer. bor.

69. **Pestalozzia monochætoidea** Sacc. et Ell. in Sacc. Mich. II. p. 4170
 375, F. ital. t. 1117. — Acervulis gregariis, epidermide velatis, pulvinatis e globoso inæqualibus, $\frac{1}{4}$ - $\frac{1}{2}$ mill. diam., nigris; conidiis breve fusoideis, inæquilateralibus, 8-10 \approx 4, utrinque obtusiusculis, 3-septatis, non constrictis, loculis mediis fuligineis, extimis hyalinis, apice setulâ 8-10 \approx $\frac{1}{2}$ hyalinâ terminatis basidiisque filiformibus, 8-10 \approx $\frac{1}{2}$, suffultis.

Hab. in ramulis Spirææ emortuis, Newfield Americae bor. (ELLIS). — Affinis *P. microsora* Sacc. Michel. II. 273.

70. **Pestalozzia plagiochæta** Sacc. Mich. I. p. 533, Sacc. F. ital. t. 4171
1118. — Acervulis globoso-lenticularibus, innato-erumpentibus, dein cupulatis, atris; conidiis oblongo-cylindraceis, subinæquilateralibus, 38-40 \approx 9, 6-locularibus; loculis extimis hyalinis, ceteris fuligineis, loculo supero obtusiusculo infra apicem setulam obliquam, 8 μ . long., hyalinam gerente, loculo infero in stipitem, 6-8 μ . long., attenuato.

Hab. in cortice ramorum Lauri nobilis in Gallia (BRUNAUD).

71. **Pestalozzia Veneta** Sacc. Mich. I. p. 92, Fungi ital. t. 83. — 4172
Acervulis gregariis subcutaneis, denique erumpentibus, lenticularibus, aterrimis; conidiis oblongo-fusoideis, 30-34 \approx 7, 5-septatis, ad septa non constrictis; loculis 4 interioribus fuligineis, minute guttulis, extimis minoribus, hyalinis, seta terminali filiformi, 15-18 \approx 1, tortuosa hyalina, stipitibus filiformibus, fasciculatis, 40-45 \approx 1, e pseudostromate lutescente oriundis, hyalinis.

Hab. in ramis corticatis Corni sanguineæ, Selva, Conegliano in Ital. bor. (SPEGAZZINI).

72. **Pestalozzia seiridioides** Sacc. *Coryneum marginatum* Hazsl. 4173
Sph. d. Ros. p. 213, t. IV. 29-37, vix Fr., *Seiridium marginatum* Fuck. Symb. p. 391, t. II. fig. 31 (?). — Acervulis disciformibus, atris, erumpentibus; conidiis tereti-fusoideis, 5-septatis, non constrictis, 26-28 \approx 6-7; loculis 4 interioribus fuligineis, 1-guttatis, extimis conicis hyalinis; arista apicali singula filiformi conidium subæquante, curva dein rectiuscula; basidiis filiformibus fasciculatis partim cum conidio secedentibus et aristam curvam simulantibus.

Hab. in ramis corticatis Rosæ in Hungaria et Helvetia. — Affinis *Pestalozziæ venetæ*, sed in hac basidia in aristam persistere non observavi.

73. **Pestalozzia Tecomæ** Niessl Hedw. 1883, p. 188. — Acervulis 4174
planiusculis, tectis, irregularibus, sinuatis, e badio subatris; conidiis fusiformibus, rectis vel leviter curvatis, 3-septatis, pedicellatis, fuscis, plerumque monochætis, 20-24 \approx 7-8 (sine pedicello), rostellis curvatis.

Hab. in ramulis aridis Tecomæ radicans, Coimbra in Lusitania.

74. **Pestalozzia coryneoidea** Harkn. Calif. p. 13. — Acervulis pla- 4175
niusculis, nigris, oblongis vel ovalibus, 1 mill. diam., denique depressis et irregulariter hiantibus; conidiis fusiformibus, curvis 5-septatis, 35-37 \approx 12, viridi-nigricantibus; loculis apicalibus, hyalinis,

minutis, quandoque obsoletis; apice oblique 1-aristato, setula tertiam conidii partem æquante.

Hab. in ramis emortuis Umbellulariæ californicæ, Tamalpais in California. — Differt a *Pestalozzia plagiochæta* conidiis crassioribus et loculis terminalibus minoribus.

75. **Pestalozzia microsora** Sacc. Mich. vol. II. pag. 284. — Acer- 4176
vulis gregariis minutissimis subcutaneis; conidiis oblongo-fusoideis, sæpe curvulis, 12-14 \approx 6, 4-5-septatis, loculis interioribus fuliginis, extimis minutis hyalinis, seta filiformi brevi obliqua 10 μ . longa apice acutis, stipitibus fasciculatis filiformibus, 18 \approx 1, suffultis.

Hab. in caule Euphorbiæ spinosæ, S. Giuliano, Toscana (GROVES). — Characteribus *Pest. monochætæ* subaffinis, habitu vero prorsus aliena.

76. **Pestalozzia? anomala** Harkn. F. Calif. p. 13. — Pustulis minu- 4177
tis, irregularibus, sæpe confluentibus, matricem inquinantibus; conidiis fusiformibus, curvatis, 3-septatis, constrictis, 15-18 \approx 5-6, pallide brunneis; loculis terminalibus hyalinis; basidiis crassiusculis, conidio æquilongis deciduis; setula singula in utroque fine conidium superante irregulariter 1-3-ramosa; setula basilari obliqua e latere basidii simulate egrediënte.

Hab. in caule, quem omnino obducit, Eriogoni virgati in mont. Diablo in California.

77. **Pestalozzia macropoda** Speg. in Sacc. Mich. I. p. 480. — Acer- 4178
vulis epiphyllis, primo tectis dein erumpentibus, conoideis, minutissimis, cinereo-fuliginis; conidiis fusiformibus, 35-38 \approx 7, 4-septatis, ad septa leniter constrictis; loculis 3 interioribus olivaceis, 2 extimis hyalinis, superiore rostellum unicum obliquum vel rectum, 15 \approx 1-1 $\frac{1}{2}$, apice abrupte et brevissime recurvato-uncinatum gerente, inferiore in pedicellum, 45-50 \approx 1, desinente.

Hab. in frondibus emortuis Pteridis aquilinæ, Conegliano in Ital. bor.

III. *Pestalozzina* Sacc.

Conidia tota hyalina.

78. **Pestalozzia unicolor** B. et C. North Amer. Fungi n. 584. — 4179
Acervulis minutissimis; conidiis oblongis, utrinque leviter attenuatis triseptatis, hyalinis, 25 μ . longis.

Hab. in Junipero, New England in Amer. bor.

79. **Pestalozzia laurina** Mont. Cent. VI. n. 94, in Ann., 3, XII. 312. 4180

Syll. Crypt. n. 933. — Hypophylla; acervulis gregariis punctiformibus atris erumpenti-innatis; conidiis fusariiformibus hyalinis denique vix fulvellis, primo subcontinuis, mox transversim 4-5-septatis, 30 \approx 3, altero fine appendicibus subtèrnis divaricatis instructis.

Hab. in foliis Lauri nobilis, Montaud-lez-Miramas Gallie (CASTAGNE), et Lauri caroliniensis in Carol. inf. (RAVENEL).

80. **Pestalozzia Callunæ** Ces. in Rabenh. F. Eur. n. 61, et Bot. Zeit. 4181
1860. p. 174. — Acervulis (peritheciis?) carbonaceis, subinnato-emersis, sparsis, irregularibus, plerumque oblongis, haud raro compressis, cito vertice ruptis et tunc fere cenangioideis; conidiis numerosissimis, minutis, cylindraceis, curvulis, utrinque obtusiusculis et setigeris, obscure multiseptatis.

Hab. in ramis Callunæ vulgaris prope Oropa in Ital. bor. — «An vera *Pestalozzia?*».

IV. *Species mihi minus notæ.*

81. **Pestalozzia phacidioides** Ces. in Kl. II. Myc. II. n. 65. — In 4182
caulibus Linariæ in Italia boreali prope Vercelli et in Belgio prope Bererloo.
82. **Pestalozzia depazeiformis** Auersw. in Œsterr. Bot. Zeit. 1868, 4183
pag. 209. — In Austria et Italia bor.
83. **Pestalozzia ramealis** Fr. Summa Veg. Scand. pag. 416. — In 4184
Suecia.

RHOPALIDIUM Mont. et Fries, Ann. Sc. nat. 2. VI. pag. 30. et Fr. Summa p. 476 (Etym. *rhopale* clava). — Acervuli innati, subepidermici, fusci foliicoli. Conidia 2-pluriseptata, clavata, subhyalina, stipitata, gelatinæ immersa.

1. **Rhopalidium Brassicæ** M. et Fr., l. c., t. 12, f. 4. — Acervulis 4185
fuscis, amphigenis, cuticula semper tectis; conidiis conglutinatis, longe clavulatis, pedicellatis, multiseptatis, septis transversis 7 ad 9, inæqualiter distantibus, pellucidis.

Hab. in foliis moribundis Brassicæ oleracæ prope Lyon Gallie.

SEPTOGLÆUM Sacc. Mich. II. p. 11. (Etym. *septum* et *glæum* h. e. *Gleosporium phragmosporum*). — Acervuli biogeni, minuti, subepidermici, subinde erumpentes, pallidi. Conidia oblonga, 2-pluriseptata, hyalina. — Est quasi *Gleosporium* conidiis pluriseptatis.

1. **Septoglœum Angelicæ** (C.) Sacc. *Gleosporium Angelicæ* Cooke 4186

in Grevill. — Maculis fuscis, variis; acervulis gregariis, rotundatis, vix prominulis; conidiis cylindrico-clavatis, nucleatis, demum bi-septatis, hyalinis, 40-60 = 8.

Hab. in foliis languidis Archangelicæ, Aiken Carolinæ.

2. **Septoglœum Apocyni** Peck 34 Rep. St. Mus. 45, t. 1, f. 1-2. — 4187

— Maculis paucis, latis irregularibus, brunneo vel nigro-brunneis; acervulis paucis; conidiis crasse subcylindraceis, utrinque rotundatis, dilute coloratis, 22-38 = 2,5, 4-6-septatis, non constrictis, guttulatis.

Hab. in foliis vivis Apocyni cannabini, North Greenbush in Amer. sept.

3. **Septoglœum carthusianum** Sacc. Mich. II. p. 11, *Gleosporium car-* 4188

thusianum Sacc. Mich. I. p. 93, F. it. t. 86. — Acervulis in maculis foliorum expallentibus subcircularibus, remote sparsis, prominulis, initio epidermide velatis, flavidis; conidiis in basidiis brevissimis apice rotundatis acrogenis, oblongo-cylindraceis, 30 = 9-12, constricto-2-septatis, guttulatis, hyalinis; loculis quandoque secedentibus.

Hab. in foliis languidis Evonymi europæi in silva Montello, loco ubi erat Carthusia. in Italia boreali.

4. **Septoglœum Nuttallii** Harkn. F. Calif. p. 13. — Amphigenum, cir- 4189

cinans; maculis pallidis, 2-5 mill. diam., sparsis in pag. super.; conidiis cylindraceis, truncatis, 1-5- sæpius 1-septatis, 36-45 = 4-5, in cirros carneos exsulentibus.

Hab. in foliis vivis Nuttalliæ cerasiformis, Tamalpais Californiæ.

5. **Septoglœum Fraxini** Harkn. F. Calif. p. 12. — Maculis minutis, 4190

albidis, angulosis, 4-10 mill. diam.; acervulis epiphyllis; conidiis cylindraceis, 2-5-septatis, hyalinis, 16-24 = 4-5.

Hab. in foliis vivis Fraxini Oregonæ, Tamalpais Californiæ.

6. **Septoglœum acerinum** (Pass.) Sacc. Mich. II. p. 541, Fungi ital. 4191

t. 1071, *Gleosporium acerinum* Pass. in Thüm. M. Eur. n. 93. — Acervulis initio subcutaneis, disciformibus, subsuccineis; conidiis fusoides, curvulis, 20 = 4, trinucleatis spurieque biseptatis, hyalinis; basidiis brevissimis papilliformibus.

Hab. in foliis adhuc vivis Aceris campestris prope Parma (PASSERINI). — *Gl. acerinum* West. Exs. n. 979 forte huc spectat, sed in specimine l. c. a me examinato conidia tantum binucleata vidi.

7. **Septoglœum salicinum** (Peck) Sacc. *Gleosporium salicinum* Peck 4192

33 Rep. St. Mus. p. 26. — Maculis latis, irregularibus, indefinitis, aridis, pallidis; conidiis elongatis, subfusiformibus, curvatis vel flexuosis, obscure triseptatis; loculis 1-nucleatis, hyalinis, 40-55 μ . lg.

Hab. in foliis vivis Salicis sericæ, Sandlake Amer. bor.

8. **Septoglœum maculans** Harkn. F. Calif. p. 12. — Maculis epiphyllis circularibus, atro-fuscis, 1-1½ cent. diam.; acervulis hypophyllis, in cirros pallide flavos exsurgentibus; conidiis fusoides utrinque vehementer curvatis, hyalinis, 30-50 \approx 6-9, plasmate 2-7-partito.

Hab. in foliis vivis Salicis lasiolepidis, Tamalpais Californiæ.

PROSTHEMIELLA Sacc. Mich. II. p. 356, F. ital. t. 1090 (Etym. ab analogo *Prosthemia*). — Acervuli innati, dein erumpentes, perithecio vero destituti, supra læticolores. Conidia copiosissima, cylindracea, deorsum crassiora, plura basi (*Prosthemia* ad instar) stellatim connata, hyalina, septulata. — A *Prosthemia* defectu perithecii, conidiis hyalinis etc. facile dignoscitur.

1. **Prosthemiella formosa** Sacc. et Malbr. in Mich. II. p. 356. F. it. t. 1090. — Acervulis convexo-pulvinatis, diu peridermio tectis, dein irregulariter erumpentibus, basi nigricantibus, disco amœne aureis, ¾-1 mill. diam.; conidiis 3-8 stellatis, obclavatis, 40-45 \approx 4, deorsum septulatis et sæpe torulosis, granulosis, hyalinis, cellula centrali varie angulosa.

Hab. ad ramos fagineos, Brionne Galliæ (MALBRANCHE) et in Arduennis (LIBERT). — Fungus cum nullo commutandus! *Prosthemium formosum* Lib. Herb. n. 601 huc spectat.

STEGANOSPORIUM Corda Icon. Fung. III. p. 22. (Etym. *steganos* tectus, densus, et *spora*). — Acervuli subcutanei, dein subinde erumpentes, atri, pulvinati, compacti. Conidia solitaria h. e. non catenulata, ovoidea vel piriformia, 2-pluriseptata et muriformia. Basidia bacillaria, sæpe paraphysibus intermixta.

1. **Steganosporium piriforme** (Hoffm.) Corda Icon. Fung. III. p. 23, tab. 4, fig. 61, Sacc. F. ital. tab. 1108, *Stilbospora piriformis* Hoffm. F. germ. II. tab. XIII. fig. 2, *Stilbospora ovata* Pers. Obs. I. tab. 2, fig. 2. — Gregarium; acervulis immersis, semper tectis, coriaceis, atris; conidiis clavato-obpiriformibus, 35-40 \approx 15-18, utrinque, præcipue apice, rotundatis, 4-6-septatis, non constrictis, septo uno alterove longitudinali (vel saltem plasmate murali-diviso), olivaceo-fuligineis, basidiis filiformibus, 40-50 \approx 2-3, suffultis.

Hab. in cortice trunci Tiliæ, Fagi, Aceris Pseudoplatani in Germania, Italia bor., Gallia, Amer sept.

2. **Steganosporium irregulare** (B. et C.) Sacc., *Coryneum irregulare* B. et C. North Amer. Fungi n. 482. — Acervulis elevatis distinctis; conidiis obovatis, 4-6-septatis, 150 μ . longis, deorsum attenuatis; loculis infimis, angustis et sensim in stipitem tenuissimum abeuntibus; endochromatibus verticaliter divisis.

Hab. in ramis Betulæ, Alabama in Amer. bor.

3. **Steganosporium Æsculi** Sacc. Syll. II. p. 3, ut *Massaria Æsculi* stat. conid. — Acervulis pulvinatis, subcutaneo-erumpentibus, fuscis; conidiis piriformibus, 3-4 transverse et longitudinaliter septatis, fuscis, demum totis opacis, 40 \approx 20.

Hab. in ramulis Æsculi Hippocastani in Italia boreali, Germania, Gallia.

4. **Steganosporium compactum** Sacc. in Mich. II. p. 542, F. ital. t. 1107, *Coryneum compactum* Sacc. F. Ven. Ser. V. p. 198, nec B. et Br. — Acervulis ligno basi insculptis, pulvinate-applanatis, compactis, nigricantibus; conidiis fasciculatis, oblongis clavatisque 50 \approx 20, 3-6-septatis muriformibusque, ad septa constrictis, fuligineo-cinnamomeis; basidiis teretiusculis, conidio brevioribus, concoloribus.

Hab. in ramis emortuis Ulmi, Selva (Treviso) in Italia bor. — Acervuli ab initio verisimiliter cortice nidulantes.

5. **Steganosporium fenestratum** (E. et E.) Sacc. *Stilbospora fenestrata* Ellis et Ev. Bull. Torr. 1884, p. 18. — Stromate subcuticulari vel indistincto; conidiis ellipticis, fenestratis, brunneis, 35-40 \approx 15-20, crasse stipitatis et cuticulam in pustulas elevantibus, denique erumpentibus et effluentibus maculasque minutas, atras formantibus.

Hab. in ramis emortuis Clethræ alnifoliæ, New Field N. J. Amer. bor.

6. **Steganosporium cellulsum** Corda Icon. Fung. III. fig. 62, *Sporidesmium cellulsum* Fr. sec. Klotzsch Exs. n. 189. — Acervulis effusis, nigris; conidiis subpiriformibus, 5-7-septato-muriformibus, non constrictis, fuligineis, 32-34 μ . longis; basidiis copiosis subramosis, hyalinis.

Hab. in ramis emortuis Tiliæ microphyllæ in Germania Britannia, Belgio et Amer. bor. — Quoad speciem americanam (in Acere saccharino. Cfr. B. et C. North Amer. Fungi) dubium adest, nam conidia 50 μ . longa describuntur.

7. **Steganosporium taphrinum** Sacc. Syll. II. p. 290 ut *Teichosporæ* 4201
taphrinæ stat. conid. Fuck. Symb. App. II. p. 305. — Acervulis
 in macula albescenti, ramulos decorticatos sæpe totos occupanti-
 bus, gregariis, ligno immersis, ellipticis, compressis, corneis, ex
 ligno protuberantibus, aterrimis, demum vertice irregulariter hia-
 scentibus et conidia ut pulverem nigrum emittentibus; conidiis valde
 polymorphis, plerumque obovatis subpiriformibus, ovatis, oblongis,
 rotundatis, simplicibus vel 1-3-septatis muriformibusque vel cru-
 ciatim septatis, fuscis, plerumque 8-10 μ . longis.
Hab. in ramulis siccis decorticatis Populi tremulæ in Sue-
 cia et Germania.
8. **Steganosporium Platani** Preuss F. Hoyersw. n. 336. — Gregarium; 4202
 acervulis cortici immersis, tectis, atris; basidiis filiformibus, albis;
 conidiis subpiriformibus, fuscis; nucleo quater in una serie posito (?).
Hab. in ramorum cortice Platani, Hoyerswerda. — « Descri-
 ptio conidiorum nimis incerta ».
9. **Steganosporium castanicolum** (B. et C.) Sacc. *Coryneum castani-* 4203
cola B. et C. North Amer. Fungi n. 481. — Acervulis prominulis
 epidermide arcte cinctis; conidiis elongatis, breviter, pedicellatis
 pluri-septatis, leniter curvatis; endochromatibus demum vertica-
 liter divisus.
Hab. in ramis levibus Castaneæ in Pennsylvania Amer. bor.
10. **Steganosporium cavernosum** Mont. sept. cent. pl. cell. ined. p. 4204
 347. — Erumpens; acervulis immersis sursum erumpentibus, exca-
 vatis; conidiis ovoideis, olivaceis, obtusis, initio brevissime pedicel-
 latis, mox liberis, 20 \approx 12, irregulariter cellulosis, lignum elevato-
 colliculosum canescentem haud inquinantibus.
Hab. in caudice annoso Oleæ europææ prope Montaud-lès-
 Miramas in Gallia.
11. **Steganosporium chlorinum** Pass. et Beltr. F. Sic. n. 34. — Stro- 4205
 mate nullo; acervulis subdiscoideis, pulveraceis, olivaceo-viridibus;
 conidiis globosis, ellipticis vel fusiformibus, minute et sæpius ob-
 scure cellulosis, olivaceis, magnitudine variis, 20-60 \approx 15-20.
Hab. in ligno denudato Oleæ europææ, Monostalla Siciliae.
 — « An potius *Sporodesmium?* ».
12. **Steganosporium obscurum** (Corda) Sacc., *Coryneum obscurum* 4206
 Corda Icon. Fung. I. p. 8, t. II. f. 123. — Erumpens, atrum; stro-
 mate immerso convexo, intus corneo, atro; conidiis erectis 5-6-
 septato-muriformibus, ad septa subconstrictis, oblongis, fuscis; pedi-
 cellis longis simplicibus v. ramosis, articulatis, subdiaphanis, fuscis.

Hab. in virgultis arborum frondosarum prope Reichenberg in Bohemia. — «An fungus potius *macrosporoides*?».

13. **Steganosporium muricatum** Bon. Handb. Myk. p. 60, f. 52. — 4207
Acervulis tectis, ovoideis, mycelio filamentoso cinctis; conidiis oblongo-ovoides, 5-7-septato-muriformibus, ad septa constrictis, deorsum acutatis et in basidium filiforme hyalinum conidio subæquale attenuatis, dein in cirros tenues atros effluentibus.

Hab. in corticibus in Guestphalia.

14. **Steganosporium clavatum** Preuss F. Hoyersw. n. 47. — Grega- 4208
rium; acervulis immersis, dein subliberis, orbicularibus, opaco-atris, primum medio papillatis; basidiis filiformibus, albis; conidiis clavatis fusiformibusque; episporio albo; nucleo septato, fusco, subquadrato.

Hab. in cortice arborum frondosarum, Hoyerswerda.

15. **Steganosporium Guyonianum** (M. et D.) Sacc. *Didymosporium* 4209
Guyonianum Mont. et Dur. Fl. Alg. I. p. 330. — Amphigenum; conidiis oblongis triseptatis, tandem cellulosis, sub epidermide folii in acervulos atros punctiformes, 100-150 μ . diam., demum granulose erumpentes conglutinatis, 13 \approx 7-8.

Hab. in foliis Suedæ maritimæ in desertis sabulosis, ad meridiem urbis Biskra late patentibus (GUYON). — «An *Stigmella*?».

PHRAGMOTRICHUM Kunze et Schm. Myk. Hefte II. p. 84, t. II. f. 4. (Etym. *phragma* septum et *thrix* capillus, filamentum). — Acervuli subcutaneo-erumpentes, depressi, atri. Conidia angulosa, catenato-superimposita, pluriseptato-clathrata fusca, isthmis tertiusculis, septatis pallidioribus connexa. — *Bullariæ* et *Seiridio* perfecte analogum genus, sed conidia septato-muriformia.

1. **Phragmotrichum Chailletii** Kunze l. c., Sacc. F. ital. t. 1101, Corda 4210
Ic. Fung. III. p. 30, f. 80. — Acervulis innatis, pulvinatis, nigricantibus, oblongis vel subcircularibus, $\frac{1}{2}$ -1 mill. diam.; conidiis subrhomboideis, crebre muriformibus, 20 \approx 15, fuligineis, angulis subhyalinis per isthmos filiformes subhyalinos, 2-3-septatos catenulatim connexis.

Hab. in strobilis Abietis in horto botanico romano (BAGNIS), prope Neufchâtel Helvetiæ (CHAILL.), in Vogesis (MALBRANCHE), in Suecia (SOMMERFELT).

2. **Phragmotrichum acerinum** Fr. Summa Veg. Scand. p. 474, Scler. 4211

Suec. n. 437 (non vidi). — Acervulis . . . ; conidiis ovali-oblongis, non angulatis, cellulosis, isthmo concatenatis; perithecio nullo.

Hab. in ramis? Acerum in Suecia.

3. **Phragmotrichum quercinum** Hoffm. Ic. anal. fung. p. 69, t. 17, 4212.

f. 1. — Acervulis tuberculiformibus, atris, orbicularibus, sparsis (superficialibus); conidiis approximatis vel discretis, oblongis, muriculatis, septatis vel rarius murali-divisis, 25-30 \approx 12-15; isthmis brevibus, sæpe nullis.

Hab. ad lignum quercinum fabrefactum, carie exesum prope Darmstadt Germaniæ. — «Ex icone mihi potius *Sirodesmium* videtur».

REPERTORIUM

MELANCONIEARUM

SECUNDUM MATRICES

Obs. A. indicat *Agyriella*. — As. *Asterosporium*. — B. *Blennoria*. — Bo. *Bloxamia*. — Bu. *Bullaria*. — C. *Colletotrichum*. — Co. *Coryneum*. — Ca. *Cryptomela*. — Cr. *Cryptosporium*. — Cy. *Cylindrosporium*. — D. *Didymosporium*. — G. *Glæosporium*. — H. *Hainesia*. — Ha. *Hyaloceras*. — Hy. *Hypodermium*. — L. *Libertella*. — Mi. *Marsonia*. — Mu. *Melanconium*. — Me. *Melanostroma*. — Mo. *Myxormia*. — Ma. *Myxosporella*. — M. *Myxosporium*. — N. *Næmospora*. — Pa. *Pestalozzia*. — P. *Pestalozziella*. — Pi. *Phragmotrichum*. — Pe. *Prosthemiella*. — R. *Rhopalidium*. — So. *Scolecosporium*. — Si. *Seiridium*. — Se. *Septoglæum*. — S. *Septomyxa*. — Su. *Steganosporium*. — St. *Stilbospora*. — Ti. *Thyrsidium*. — T. *Trullula*.

N. 3656 — 3999 citantur 656 — 999
N. 4001 — 4212 citantur 1 — 212

<p>Abies — G. 761. — Hy. 809. 811. — Cr. 878. — Mu. 970. — Ti. 2. — Pa. 148. — Pi. 210.</p> <p>Acacia — G. 708. — Co. 56. — Pa. 110. 147.</p> <p>Acer — H. 657. — G. 677. 678. — M. 775. — L. 898. — D. 9. — Mi. 27. — Co. 62. 71. — Se. 191. — Su. 200. — Pi. 211.</p> <p>Acorus — Cr. 889.</p> <p>Ægopodium — Cr. 886.</p> <p>Æsculus — G. 756. — S. 22. — Su. 197.</p> <p>Agave — Mu. 986.</p> <p>Agrostemma — Mi. 35.</p> <p>Alisma — Cy. 865.</p>	<p>Alnus — G. 735. 736. — M. 801. — Cr. 866. — L. 901. — N. 922. 923. — Mu. 935. 959. 960. 961. 962. — St. 42. 46. — Co. 66. 80.</p> <p>Alocasia — G. 766.</p> <p>Aloe — G. 676.</p> <p>Ammophila — Ca. 994.</p> <p>Amygdaleæ — C. 58.</p> <p>Amygdalus — Pa. 146.</p> <p>Andropogon — C. 844.</p> <p>Apocynum — Se. 187.</p> <p>Aquilegia — G. 659. 660.</p> <p>Aralia — Pa. 125.</p> <p>Araucaria — Pa. 135.</p> <p>Arauja — G. 706.</p> <p>Arbutus — Cr. 884. — Co. 59.</p>
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- Archangelica — Se. 186.
 Arctostaphylos — G. 704. — Cr. 885.
 Arundinaria — Mu. 989.
 Arundo — Mu. 989. — Ca. 995.
 Atragene — Mi. 34.

 Bartsia — G. 712.
 Betula — G. 732. 733. 734. — M. 797.
 798. 799. — Cr. 866. — L. 897. —
 Mu. 963. 964. 965. — Ca. 997. —
 Ti. 1. — D. 13. — St. 43. — Co.
 68. 74. 75. 76. — As. 95. 96. —
 Su. 196.
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 zeina (Ascochyta). 405.
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MUSEO INSTITUTO DE BOTANICA "SPEGAZZINI"	
BIBLIOTECA	
Registro No.	49
Ubicación
Proced.	Leg. Spegazzini
Fecha

EMENDANDA

Nomina quædam specifica in suis generibus bis occurrentia, sequenti modo mutanda sunt.

pag. 20 Phyllosticta viticola	lege Ph. vitea Sacc.
" 21 (n. 104) 10 : 5	" : sporulis 10 : 5.
" 73 Phoma Pini	" Ph. Harknesii Sacc.
" 110 Phoma viticola	" Ph. vitea Sacc.
" 116 Phoma maculans	" Ph. Curtisii Sacc.
" 142 Phoma Preussii	" Ph. Preussiana Sacc.
" 166 Phoma linearis	" Ph. lineata Sacc.
" 174 (n. 1047) sporulis erectis	" basidiis erectis
" 177 Aposphaeria subtilis	" Ap. Cordæ Sacc.
" 210 Asteroma Fuckelii	" Ast. Fuckelianum Sacc.
" 341 Diplodia Licalis	" D. Lilacis West.

Hab. in folio ejusdam Rubiaceæ(?) exoticæ (non in ramis Hederæ ut in Mont. Syll. n. 964).

III. *In fructibus et floribus Dicotyledonearum.*

491. **Phoma leguminum** West. Exs. n. 1135. — Peritheciis punctiformibus sparsis, copiosis, globulosis, nigris, innato-erumpentibus, poro pertusis; nucleo albido, dein sordido; sporulis ovoideis v. oblongo-ovoideis, $5 \approx 2,5$, obtusiusculis, hyalinis; basidiis brevissimis. 870
Hab. in leguminibus Cercidis Siliquastri, Robiniæ, Coluteæ, Gleditschiæ, Laburni, in Belgio, Italia, Gallia et Austria.
492. **Phoma lathyrina** Sacc. Mich. II. p. 274, M. V. Cent. XV. — 871
 Peritheciis gregariis, velatis, globoso-depressis, atronitidis, $\frac{1}{4}$ mill. diam.; sporulis oblongis, inæquilateralibus, $9-10 \approx 2\frac{1}{2}$, 2-guttulatis, hyalinis; basidiis
Hab. in leguminibus emortuis Lathyrì latifolii, Padova in Ital. bor. — Spermogonium *Diaporthes*. A *Ph. leguminum* West. diversa.
493. **Phoma Triacanthi** Sacc. *Sphæropsis Gleditschiæ* Cooke in Rav. 872
 Fung. Amer. n. 145, nec Thüm. — Subgregaria, erumpens; peritheciis atris, sæpe 2-4 congestis, supra obtusis vel depressis; sporulis arcte ellipticis, hyalinis, $15 \approx 3$.
Hab. in leguminibus Gleditschiæ, Aiken in Carolina (RAVENEL).
494. **Phoma phyllostictoides** Desm. Crypt. de France, Ser. III. n. 694. 873
Hab. in leguminibus aridis sed adhuc pendulis Coluteæ arborescentis, in Gallia, et Gorizia in Italia boreali (Diagnosim comparare non potui).
495. **Phoma capsularum** Cooke et Harkn. in Grevillea 1881, p. 82. 874
 — Erumpens; peritheciis atris, nitidis, in maculas orbiculare congestis; sporulis ellipticis, hyalinis, continuis, $6,5 \approx 2,5-2,8$.
Hab. in leguminibus Robiniæ, in California.
496. **Phoma clitoricarpa** (Cooke) Sacc. *Sphæropsis Clitoreæcarpa* 875
 Cooke in Grevillea. — Sparsa, punctiformis; peritheciis atris, subglobosis, primo tectis, demum erumpentibus; sporulis late ellipticis, hyalinis, $20-25 \approx 12-14$.
Hab. in leguminibus Citoreæ, Madras (Doct. BIDIE).
497. **Phoma cassiocarpa** (Cooke) Sacc. *Sphæropsis cassiæcarpa* Cooke 876
 in Grevillea. — Punctiformis, sparsa; peritheciis depressis, atris,

nutis, 80-90 μ . d., membranaceis; contextu parenchymatico, atro-fuligineo; sporulis globosis vel ellipticis, quandoque basi angulato-acutatis, 6-7 \approx 4-6, fuligineis.

Hab. in stercore canino putrescente in hortis á la Recoleta in Repub. Argentina. — A *Sporormia minima* obsoleta toto cœlo diversa!

HARKNESSIA Cooke Grev. IX. p. 85, Wint. Hedw. 1883, p. 19. (Etym. a cl. doct. H. W. Harkness, botanico Californiæ). — Perithecia globoso-conica, apice poroso-lacerata; contextu pseudo-parenchymatico. Sporulæ ellipticæ vel subglobosæ, continuæ, opacæ, deorsum in pedicellum hyalinum articulatum productæ, demum in grumulos atros erumpentes. — Habitus *Melanconii*, sed, teste Winter, verum perithecium adest.

1. **Harknessia Eucalypti** Cooke Grev. 9, p. 81 (1881) Wint. Hedw. 1883, p. 21. — Peritheciis innatis v. superficialibus, globosis, flavo-brunneis, epiphyllis, vel caulinis; orificio orbiculari, margine elevato, hic illic dentato-lacerato; sporulis late ellipticis, atro-fuscis, 20-30 \approx 11-14, deorsum pedicellatis; pedicellis æqualibus linearibus, hyalinis, dein fuscidulis, 40-45 μ . longis.

Hab. in foliis et ramulis Eucalypti Globuli in California Americæ borealis.

2. **Harknessia uromycoides** Speg. Arg. IV. n. 309, *Melanconium uromycoides* Speg. F. Argent. Pug. I. n. 40 (1880) *Harknessia Molleriana* Wint. Hedw. 1883, p. 20, *Harknessia longipes* Harkn. F. Calif. p. 13 (1884). — Peritheciis gregariis erumpentibus, semi-membranaceis; orificio orbiculari, margine denticulato elevato; sporulis ellipsoideo-oblongis, sæpe curvis, apiculatis, 19-27 \approx 10-12, atro-olivaceis, 2-nucleatis, apice hyalino nitido; basidiis persistentibus, flexuosis, hyalinis, angustis, sporulâ 4-6-plo longioribus, nempe usque 140 μ . longis.

Hab. in ramis emortuis foliisque Eucalypti odoratæ, Piedmont Californiæ et in Argentina. — Species basidiis prælongis mox distinguenda.

HYPOCENIA B. et C. North Am. Fungi n. 423^{bis} (Etym. *hypo* sub et *cenos* vacuus, ob cellulam basilarem in perithecio). — Perithecia crassa obtusissima, cellulam unicam semiorbicularem includentia. Sporulæ fusoidæ continuæ endochromate utrinque retracto, pallide brunneæ. — *Hypocenia herbarum* C. et H. ad *Stagonosporam* spectare videtur.

Sect. 3. Phæodidymæ Sacc.

Sporulæ ellipsoideæ, ovoideæ vel oblongæ, 1-septatæ, fuscæ.

Clavis analytica generum.

§ Perithecia discreta.

† Perithecia tecta vel erumpentia.

Diplodia. Perithecia glabra; sporulæ strato mucoso carentes.*Macrodiplodia*. Perithecia glabra; sporulæ strato mucoso obvolutæ. — pag. 371*Chaetodiplodia*. Perithecia pilosa; sporulæ strato mucoso carentes. — pag. 372

†† Perithecia lignicola, subsupercialia.

Diplodiella. Perithecia subcarbonacea, papillata. — pag. 373

§§ Perithecia cæspitosa.

Botryodiplodia. Perithecia cæspitoso-erumpentia. — pag. 377

DIPLODIA Fr. Summa Veg. Scand. p. 416. (Etym. *diplos* duplex, ob sporulas didymas), *Sporocadus* Corda p. p. — Perithecia subcutaneo-erumpentia, subcarbonacea, atra, typice papillata, pertusa. Sporulæ ellipsoideæ, ovoideæ vel oblongæ, 1-septatæ, fuscæ. Basidia bacillaria, simplicia, hyalina. — E genere primario sepositæ sunt: species peritheciis superficialibus (*Diplodiella*); peritheciis hirsutis (*Chaetodiplodia*); peritheciis acervatis (*Botryodiplodia*); sporulis mucosis (*Macrodiplodia*); sporulis hyalinis (*Diplodina*).

1. In ramis Dicotyledonearum lignosarum.

1. **Diplodia Anonæ** Sacc. Mich. II. p. 269. — Peritheciis tectis, dein 1825 peridermio fisso semi-erumpentibus, majusculis, in acervulos oblongos, aterrinos dense congregatis, globulosis, brevissime papillatis; sporulis oblongis, diu hyalinis, continuis, guttulatis, dein 1-septatis vix constrictis, $28 \approx 11-13$, olivaceo-fuscis.

Hab. in ramis crassioribus *Anonæ trilobæ* in horto patavino Ital. bor.

2. **Diplodia brachyspora** Sacc. Mich. II. p. 106. — Peritheciis spar- 1826 sis, corticulis, initio velatis, globoso-depressis, $\frac{1}{7}$ mill. diam.; contextu laxo parenchymatico fusco-melleo; sporulis breve obovatis, apice rotundatis, $9 \approx 7$, 1-septatis, vix constrictis, fusco-cinnamo-meis, subsessilibus (idest stipite apiculiformi).

- Hab.* in ramis decorticatis *Castaneæ vescæ*, Padova Ital. bor. (BIZZOZERO). — Var. β . **corticola**: peritheciis subtectis, corticolis; ceterum non diversa. In ramis ejusdem corticatis Conegliano (SPEGAZZINI) et in Gallia (LIBERT). — Var. γ . **radicicola** Sacc. Mich. II. p. 537: peritheciis sparsis, cortice suberoso dein elabente tectis, contextu indistincte parenchymatico subcarbonaceo, globoso-depressis; sporulis ellipsoideo-oblongis, utrinque rotundatis, 19-21 \approx 9-10, initio granulosis, hyalinis, dein fuliginis, tandem sed rarius 1-septatis leviterque constrictis, basidiis cylindræis hyalinis sporulam æquantibus initio suffultis. In radicibus tenuioribus languentibus v. emortuis *Castaneæ vescæ* in Apennino super. et in præalpinis circa Bugellam (prof. GIBELLI). — Peritheciis depressioribus ostioloque obsoleto a typo nonnihil recedit.
145. **Diplodia faginea** Fr. Summa Veg. Scand. p. 417. — Peritheciis 1969 gregariis, globosis, nigris, subcutaneis, ostiolo papillato erumpente; sporulis ellipsoideis, 24 \approx 12, leniter constrictis, fuliginis.
- Hab.* in ramis corticatis *Fagi silvaticæ* in Italia, Gallia, Suecia, Germania. — Pycnidium videtur *Massariæ macrosporæ*.
146. **Diplodia suberina** Dur. et Mont. Fl. Alg. I. p. 572. Syll. Crypt. 1970 n. 948. — Erumpens, convexula, tuberculosa, atra; peritheciis ovoideis aut sphæricis prominulis papillulatis albo-farctis; sporulis oblongis, junioribus hyalinis continuis (maturis haud observatis), stipitatis, undique centrum versus vergentibus, 25 \approx 12-13.
- Hab.* ad ramulos *Quercus Suberis*, Algeria (DURIEU), Coimbra in Lusitania. (MESNIER).
147. **Diplodia Quercus** Fuck. Symb. myc. p. 170. — Peritheciis cæ- 1971 spitoso-confluentibus, primo tectis, dein liberis, maximis, hemisphæricis, punctulato-scabris, atris; ostiolis minutis papilliformibus; sporulis oblongis, guttulatis, 30 \approx 10.
- Hab.* in ramis siccis *Quercus* in Germania et Gallia. — Pycnidium *Othiæ Quercus*.
148. **Diplodia quercina** West. Bull. Ac. Belg. II. Ser. t. XII. n. 7. — 1972 Peritheciis sparsis, nigris, immersis, exiguis, epidermide atratula et varie fissa tectis; ostiolo papillato, erumpente; sporulis brunneis, ovoideis, bilocularibus.
- Hab.* in ramis *Quercus*, Gentinnes pr. Namur in Belgio (DE LIMMINGHE).
149. **Diplodia longispora** C. et Ell. in Grevillea F. New Jers. n. 2304, 1973 fig. 7. — Subgregaria, semiimmersa, atra; peritheciis minutis; sporulis elongatis, uniseptatis, brunneis, 30-35 \approx 7.

Hab. in ramis decorticatis *Quercus coccineæ*, New Jersey Americæ borealis.

150. **Diplodia cincta** Fuck. Symb. myc. p. 395. — Peritheciis sparsis, 1974
tectis, per epidermidem pustulato-inflatam fissamque demum erumpentibus, basi applanatis, annulo nigro hirsutoque cinctis, vertice hemisphæricis, papillatis, atris; sporulis oblongis, didymis, fuscis.

Hab. in ramulis siccis *Quercus* in Rhenogovia, rarius.

151. **Diplodia consimilis** Dur. et Mont. Fl. Alg. p. 574. Syll. Crypt. 1975
n. 951. — Innata; peritheciis globosis opacis sparsis confluentibusque, stromate atro-fusco junctis, epidermide stellatim rupta cinctis, ostiolo vix prominulo instructis; sporulis oblongis, pellucidis bilocularibus.

Hab. in cortice *Quercus cocciferæ* apud La Calle in Algeria (DURIEU).

152. **Diplodia Betulæ** West. in Kickx. Fl. crypt. Fl. I. p. 394. — Peritheciis 1976
nigris, solitariis v. aggregatis, initio immersis, denique fere liberis; sporulis ovoideis, bilocularibus, brunneis.

Hab. in trunco *Betulæ nigræ* in Belgio.

153. **Diplodia scabra** Fuck. Symb. myc. p. 395. — Peritheciis sparsis, 1977
tectis, media magnitudine, globosis, atris; ostiolis papillatis, perforatis, erumpentibus; sporulis oblongis, didymis, medio constrictis, atro-fuscis, 18 \approx 8.

Hab. in ramis siccis *Alni glutinosæ* in Rhenogovia. — In ramulis superioribus occurrunt spermogonia (*Phoma*): sporulis oblongis, hyalinis, 10 \approx 2.

154. **Diplodia Alni** Fuck. Symb. myc. p. 395. — Peritheciis tectis, 1978
sparsis confluentibusque, media magnitudine, globosis, atris; ostiolis papillatis, erumpentibus; sporulis oblongis, fuscis, didymis, 26 \approx 9.

Hab. in ramis et truncis siccis *Alni glutinosæ* in Germania et Italia.

155. **Diplodia Juniperi** West. Bull. Ac. Belg. II. Ser. t. 12, n. 7. — 1979
Peritheciis solitariis, perexiguis, immersis, sparsis, epidermide tectis, ostiolo papillato brunneo perforante; sporulis ovoideo-oblongis, 18-20 \approx 8-10, 1-septatis, non constrictis, fuscis.

Hab. in ramis *Juniperi communis* in Belgio, Gallia et Italia boreali. — β . **foliicola** Sacc. F. Gall. n. 2253: sporulis didymis fuscis, 24-26 \approx 10-11. In Gallia. — ***Dipl. Deodaræ** Thüm. F. Litor. n. 145: sporulis multo minoribus, 11 \approx 7, subovatis, loculo

1. **Diplodiella crustacea** Karst. Hedw. 1884, pag. 62. — Peritheciis 2096 confertissimis, crustaceo-aggregatis, superficialibus, carbonaceis, subovoideis, vertice attenuatis, atris, glabris, nitidis, 0,3-0,4 mill. diam.; sporulis oblongatis v. ellipsoideis, utroque apice obtusis, rectis v. subrectis, 1-septatis, septo non v. vix constrictis, dilute fuscidulis, 8-13 = 3-4.

Hab. ad lignum pineum prope Mustiala in Fennia.

2. **Diplodiella fibricola** (Berk.) Sacc. *Diplodia fibricola* Berk. Hook. 2097 Journ. 1853, p. 42, t. III. f. 12. — Maculis pallidis v. obsoletis; peritheciis minutis elongatis, fibrarum cursum sectantibus; sporulis minutis, ellipsoideis, medio leniter constrictis septatisque, 6 μ . longis pallide ochraceo-brunneis.

Hab. in ligno Populi italicæ, King's Cliffe in Britannia.

3. **Diplodiella oospora** (Berk.) Sacc. *Diplodia oospora* Berk. Hook. 2098 Journ. 1853, p. 42, t. II. f. 11. — Maculis olivascentibus; peritheciis minutis, elongatis; sporulis minutis, obovatis, brunneo-ochraceis, 1-septatis, 7,6 = 6.

Hab. in ligno salicino, King's Cliffe in Britannia.

4. **Diplodiella quercella** Sacc. et Penz. Mich. II. p. 623 (sub *Diplodia*). 2099 — Peritheciis subsuperficialibus, sparsis, globosis, papillatis, minutulis, atris; sporulis oblongis, 1-septatis, lenissime constrictis, 18-19 = 7-9, fuligineis; basidiis teretiusculis, hyalinis, 15-16 = 2-2,5.

Hab. in ligno denudato putrescente Quercus, Lyon in Gallia (THERRY).

5. **Diplodiella fibriseda** Sacc. Mich. II. p. 270. (sub *Diplodia*). — Peritheciis minutis e fibris ligneis erumpentibus, globoso-oblongis, papillulatis, aterrimis; sporulis diu hyalinis, continuis, guttulatis, tandem 1-septatis, vix constrictis, 20-25 = 12-13, fuligineis.

Hab. in ligno denudato Juglandis et Broussonetiæ, Vittorio, Padova in Italia boreali. — Habitus *Dipl. fibricolæ* Berk., sed sporulæ diversissimæ.

6. **Diplodiella decorticata** (C. et Ell.) Sacc. *Diplodia decorticata* C. et 2101 Ell. in Grevillea. — Subgregaria; peritheciis breviter hysterioriformibus, atris, in fibrillis insidentibus; sporulis ellipticis, profunde constrictis, brunneis, 20-25 = 12-15, loculis depresso-sphæroideis.

Hab. in ramis decorticatis Sassafras, New Jersey in America boreali.

7. **Diplodiella millegrana** (C. et Harkn.) Sacc. *Diplodia millegrana* 2102 C. et Harkn. in Grevillea n. 64. — Superficialis, gregaria; peritheciis subglobosis, atris, levibus, minimis; sporulis ellipticis, uni-

septatis, utrinque rotundatis, medio non constrictis, læte fuscis, 22-30 \approx 8.

Hab. in ramis decorticatis *Acaciæ* in California. — Habitus fere *Roselliniæ millegranæ*.

8. **Diplodiella Tecomæ** (C.) Sacc. *Diplodia Tecomæ* Cooke in Grevil- 2103
lea. — Erumpens, demum libera; peritheciis globosis vel piriformibus, atris, sparsis; sporulis ellipticis, uniseptatis, nec constrictis, utrinque nucleatis, atrobrunneis, 30 \approx 12.

Hab. in ligno *Tecomæ* radicans, Aiken Carolinæ inf. in Amer. bor. — An forma lignicola *Diplodiæ Tecomæ* Pass.?

9. **Diplodiella lignicola** (Peck) Sacc. *Diplodia lignicola* Peck Rep. on 2104
the St. Mus. N. Y. — Peritheciis sparsis v. gregariis, prominulis, subglobosis, nigris; sporulis oblongis, constricto-1-septatis, 35 \approx 10.

Hab. in ligno decorticato *Abietis balsamæ*, Adirondack in America boreali.

10. **Diplodiella Cowdelli** (B. et Br.) Sacc. *Diplodia Cowdellii* B. et 2105
Br. Ann. N. H. n. 406. — Peritheciis liberis, globosis, nigris, vertice demum dehiscentibus; sporulis minutis, ellipsoideis, 1-septatis.

Hab. in pappo udo *Gossypii*, cui maculas atras affert, in Britannia.

11. **Diplodiella diversa** (Speg.) Sacc. *Diplodia diversa* Sp. F. Arg. 2106
Pug. III. n. 120. — Peritheciis ligno denudato insidentibus, lenticulari-hemisphæricis, atris, carbonaceis, $\frac{1}{3}$ mill. diam., ostiolo papillato donatis; sporulis cylindræo-ellipticis, medio 1-septatis, non v. vix constrictis, 20-22 \approx 8-10, fuliginæis.

Hab. in sarmentis putridis *Araujæ albentis* en la Boca del Riachuelo in Argentina.

BOTRYODIPLODIA Sacc. Mich. II. p. 7. (Etym. *botrys* racemus et *Diplodia*, h. e. *Diplodia* racemoso-congesta). — Perithecia botryoso-congesta, erumpentia, stromate basilari suffulta, membranaceo-carbonacea, sæpius papillata. Sporulæ oblongæ v. ovoideæ, 1-septatæ, fuliginææ.

1. **Botryodiplodia juglandicola** (Schw.) Sacc. *Diplodia juglandicola* 2107
(Schw.) Curr. Comp. Sphær. p. 276. fig. 121. *Sphæria juglandicola* Schw. Cfr. Syll. II. p. 379. — Innata, prominens, pustulis in series parallelas confluentibus, stromate corticali circumscripto; sporulis ovato-oblongis, constricto-1-septatis, 23-25 μ . longis, fuliginæis.

- Pinus — D. 984. 993. 995. 998. 999.
— De. 96.
- Pirus — D. 891. 892. 993. 894. 21. —
B. 122.
- Pittosporum — D. 959. — C. 95.
- Platanus — D. 916. 959. 960. 961.
- Poinciana — D. 873.
- Populus — D. 964. 965. — De. 96.
- Prunus — D. 883. 884. 885. 886. 895.
986. 18. 19. 20.
- Pterocarpus — D. 860.
- Punica — D. 900.
- Quercus — D. 970. 971. 972. 973. 974.
975. 986. 11. — De. 99.
- Rhamnus — D. 849. 850.
- Rhododendron — D. 27.
- Rhus — D. 853. 854. 855. 856. 955. —
B. 118.
- Ribes — D. 911. 912.
- Ricinus — D. 62.
- Robinia — D. 861.
- Rosa — D. 874. 875. 876. 877. 16.
- Rubus — D. 879. 880. 881. 882.
- Ruscus — D. 69.
- Ruta — D. 48.
- Salix — D. 9. — De. 97. 98.
- Sambucus — D. 921. — C. 92.
- Sarothamnus — D. 870.
- Sassafras — De. 101.
- Secale — D. 86.
- Sedum — D. 49.
- Sida — D. 40.
- Smilax — D. 68.
- Solanum — D. 44. 45.
- Sophora — D. 859.
- Sorbus — B. 121.
- Spiræa — D. 896. 897. 55.
- Staphylea — D. 845.
- Symphoricarpos — D. 920.
- Syringa — D. 928.
- Tamarix — D. 904. 905.
- Tanacetum — D. 54.
- Taxus — D. 996.
- Tecoma — D. 934. — De. 103.
- Terminalia — D. 909.
- Thalictrum — D. 66.
- Thuja — D. 980. 997.
- Tilia — D. 829. 830. 831. — M. 89.
- Ulex — D. 869.
- Ulmus — D. 946. 947. — M. 90.
- Vaccinium — D. 986.
- Viburnum — D. 922. 923. 1.
- Vitis — D. 839. 840. 841. 842. 843.
- Wistaria — D. 857.
- Yucca — D. 72. 73.
- Zea — D. 87.
- Zizyphus — D. 851.