



P A SACCARDO

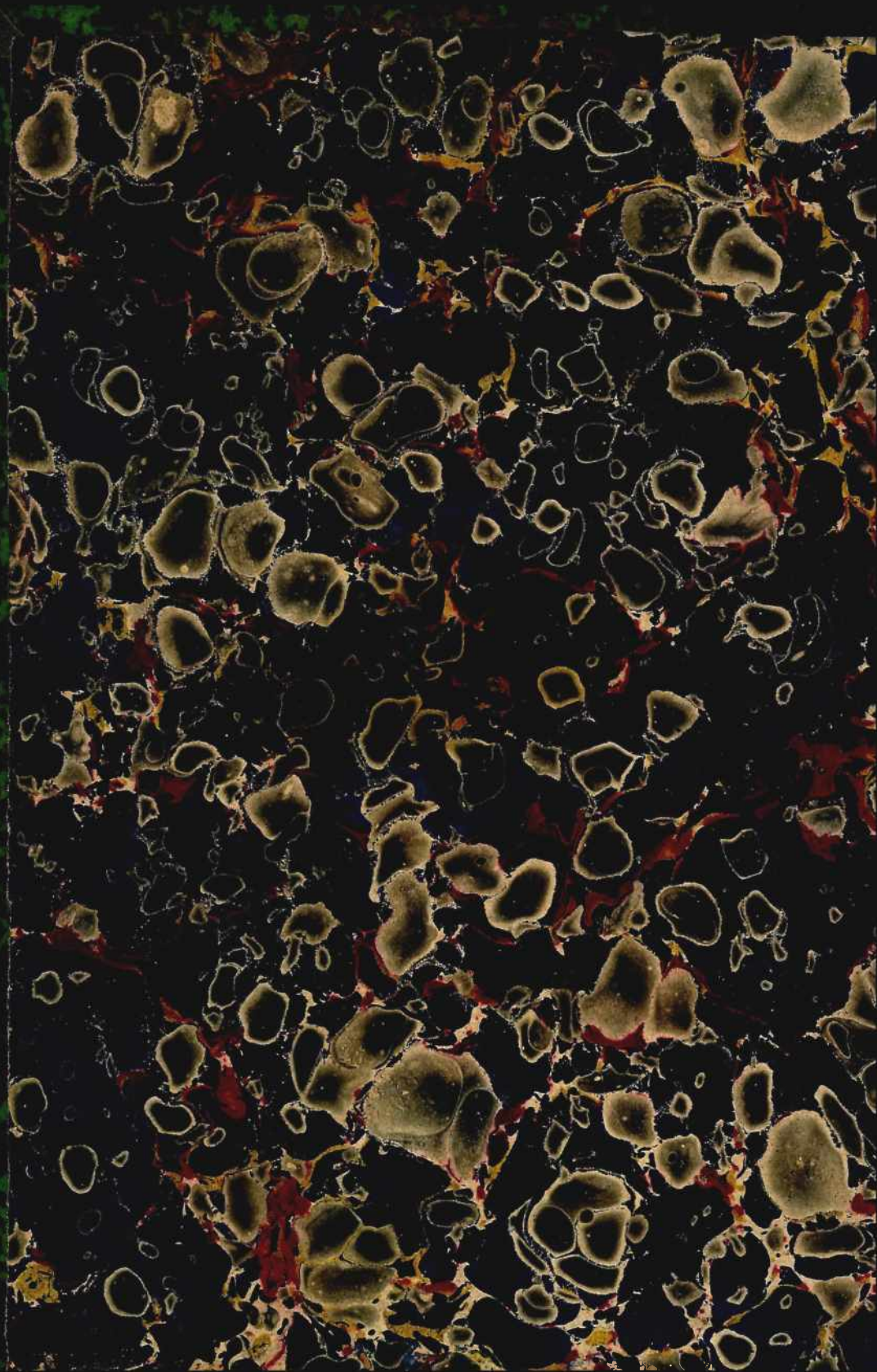
SYLLOGE
FUNGORUM

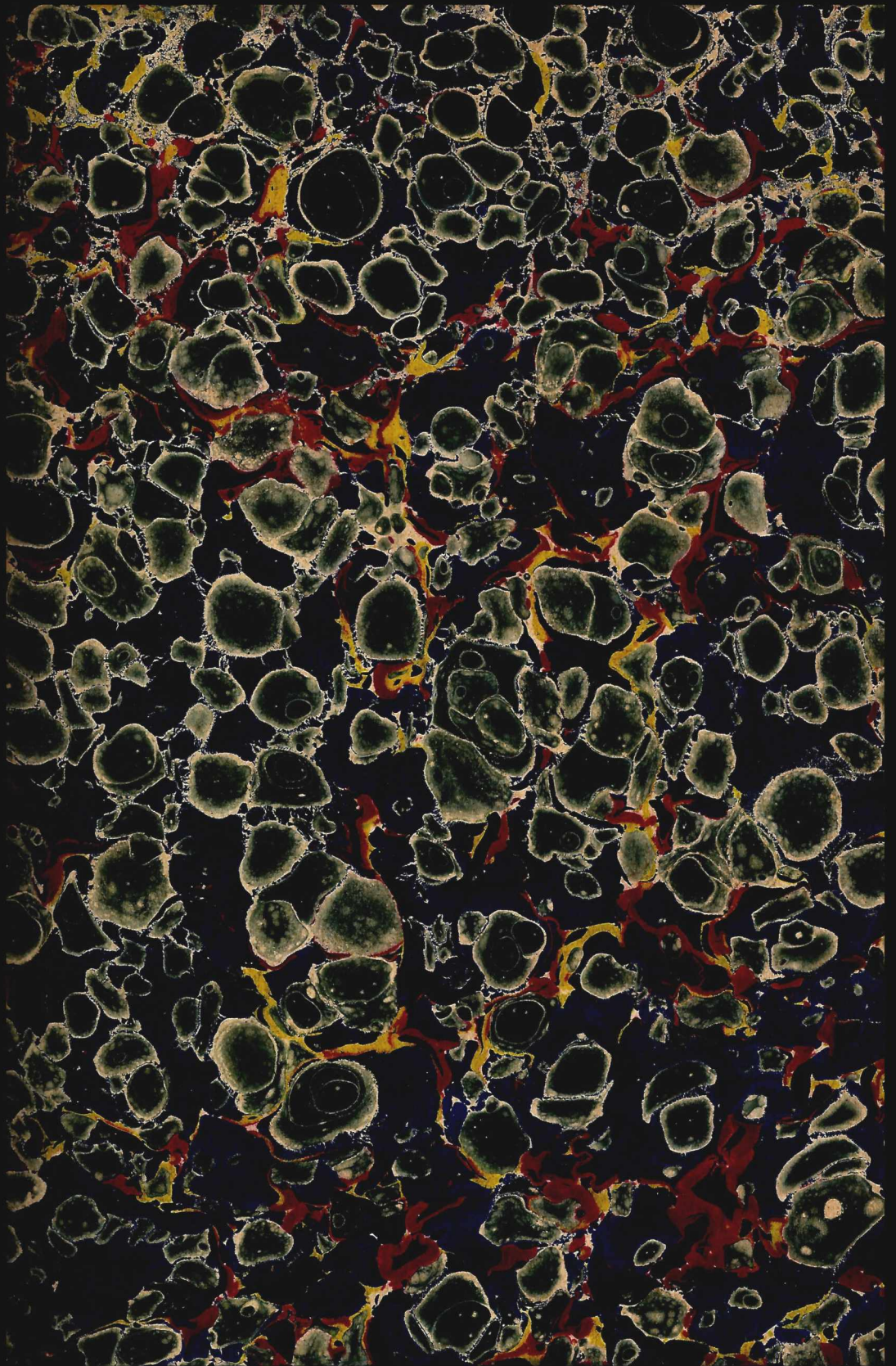
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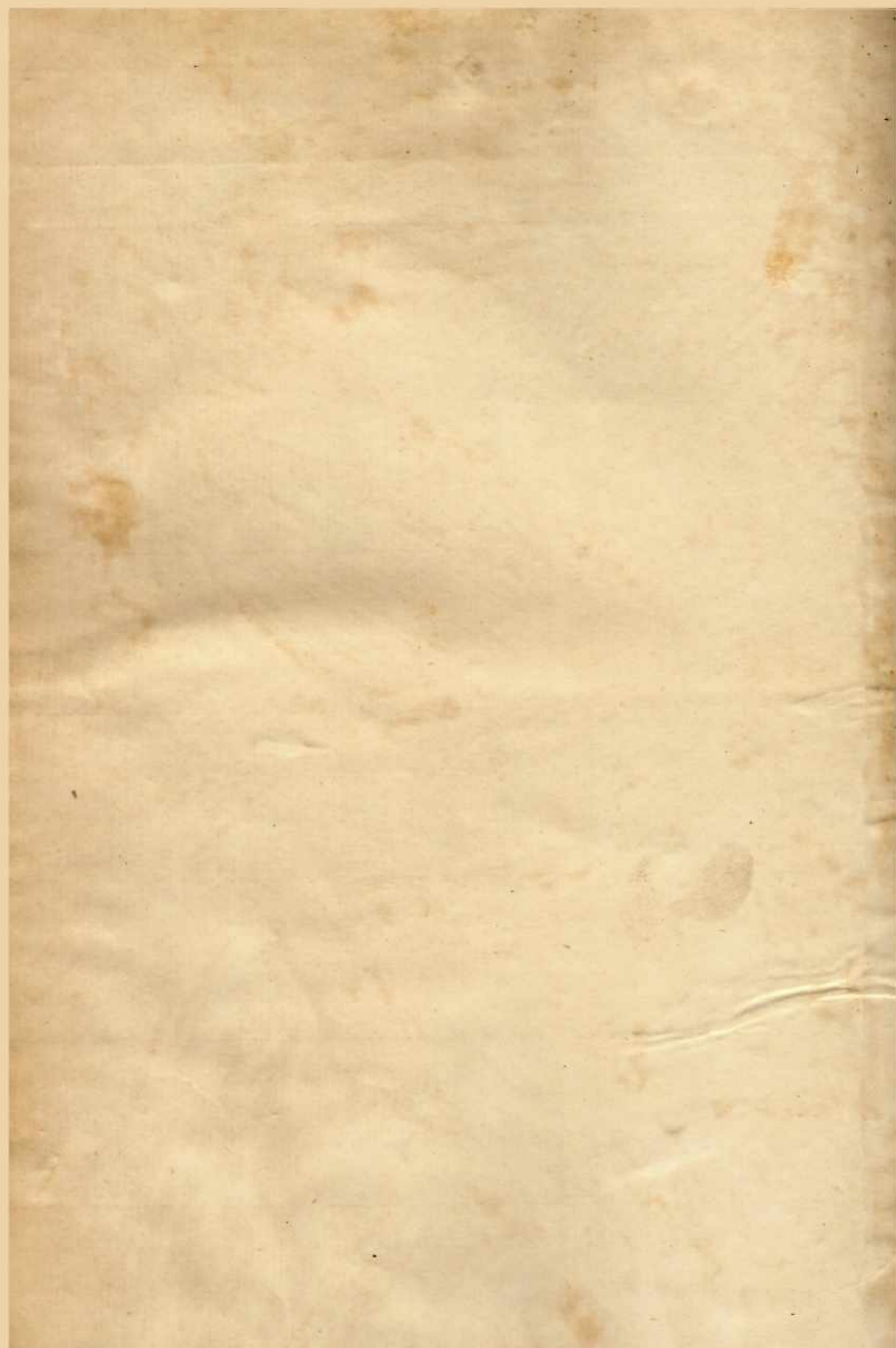
ADDITAMENTA

1









MUSEO
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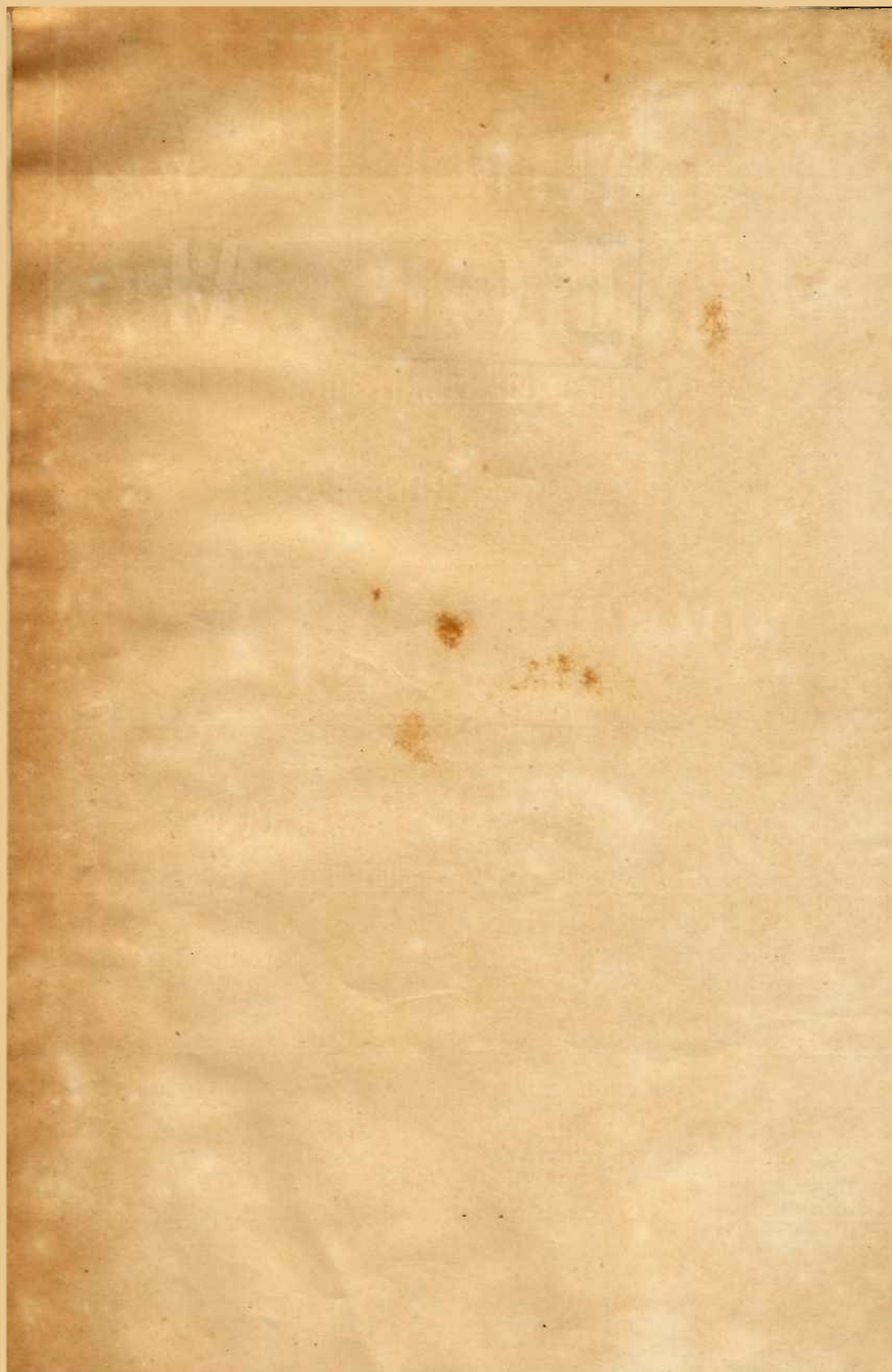
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Registro No. 49

Ubicación

Proced. Leg. Spigazzini

Fecha



SYLLOGE
FUNGORUM

OMNIUM HUCUSQUE COGNITORUM

DIGESSIT

P. A. SACCARDO

ADDITAMENTA

ad Volumina I.-IV.

CURANTIBUS

DOCT. A. N. BERLESE ET P. VOGLINO

INSTITUTI BOTANICI PATAVINI ADJUTORIBUS

PATAVII

XXXI DECEMBRIS MDCCCLXXXVI

SUMPTIBUS AUCTORUM

TYPIS SEMINARII.

STYLOGE

BOVINGEUM

OMNIBUS HUCUSQUE COGNITORUM

TITULUS

P. A. SACCARDO

DE FORMIS N. 141

CONTRACTUS

DOCT. A. M. BERLESE et P. VOGLINO

INSTITUTI POTANICI PATAVINI AUCTORIBUS

PATAVI

EX OFFICINA TYPOGRAPHICA

FRANCISCA

IN PIAZZA S. MARCO

MUSEO
INSTITUTO DE BOTANICA
"SPEGAZZINI"

BIBLIOTECA

Registro No. 49

Ubicación

Proced. *Eq. Spegazzini*

Fecha

PRÆMONITUS

Magister noster P. A. SACCARDO, dum in gravissimum laborem *Sylloges fungorum omnium* continuandæ totis viribus assidue incumbit, additamenta jam copiosa ad volumina edita colligere et ordinare, temporis defectu, in præsentī omnino vetitus est.

Qua de re consilium nobis benevole dedit hortatusque est sollicitè, ut laborem istum aggredieremur. Propositum mox et libenter exsequi statuimus. Compertum est enim omnibus, scientiam mycologicam quotidie novis plurimisque inventis continuo augeri; quo factum est, ut *Sylloges* supplementum studiosis perutile et pergratum sine dubio foret.

Nobis vero hic labor multo facilior et, ut speramus, perfectior factus est ex eo quod bibliotheca mycologica Magistri nostri semper patuit nec umquam ejusdem defuit auxilium.

Supplementum hoc omnino redactum est, et quod ad methodum et quod ad typos attinet, ad normam *Sylloges*; ita ut vera hujus operis pars seu continuatio habendum sit.

Diagnoses ex opusculis, operibus, annalibus, diariis excerptissimas et, latino semper idiomate redactas, ad genera et sectio-

nes *Sylloges* reduximus. Subinde diagnoses originales fungorum ineditorum attulimus.

Fortuna, quæ *Syllogi* Saccardianæ hucusque merito arrisit, Additamentis nostris sit quoque benigna! ¹⁾

A. N. BÉRLESE
P. VOGLINO

1) Numeri specierum *Syllogi* addendarum, in paginæ dextero margine, progressionem in unaquaque cohorte ab ultimo numero *Sylloges* continuam designant. Numeri vero in margine lævo, asterisco aucti, indicant locum systematicum, quo species inserendæ sunt. Quod ad species jam in *Sylloge* recensitas, quæ vero in *Additamentis* repetitæ sunt ut novis notis vel emendationibus augeantur, numeri iidem ac in *Sylloge* adiecti sunt.

Summa specierum descriptarum.

Pyrenomyceteæ	in <i>Sylloge</i> n. 6180;	in <i>Additamentis</i> n. 1384;	Tot. 7564
Sphærospideæ	• » » 3655	» » 423	» 4078
Melanconieæ	» » 557	» » 49	» 606
Hyphomyceteæ	» » 3583	» » 81	» 3664

PYRENOMYCETEÆ FR. em. DE NOT.

Fam. 1. Perisporiaceæ Fr.

Subfam. 1. Erysiphææ Lév.

Sect. 1. Amerosporæ. Sacc.

SPHÆROTHECA Lév. — Sacc. Syll. I, pag. 3.

- * 1. **Sphærotheca lanestris** Harkn. New Calif. Fungi p. 20. — My- 6181
celio denso, persistente, arachnoideo, brunneo-flaveolo; cæspitulis $\frac{1}{2}$ mm. diam., demum confluentibus, strato lanoso efformatis, quandoque totam paginam inferiorem occupantibus; peritheciis obscure brunneis, 90-108 μ . diam., tunica intus e cellulis magnis, refrangentibus, hyalinis efformata; appendiculis a mycelio indistinctis; ascis ovatis, crasse tunicatis, sursum angustioribus, breviter pedicellatis, 75-102 μ . longis, octosporis; sporidiis ellipticis vel globosis granulosisque, 21 \approx 18. — *Status conidicus*: **Oidium ventricosum** Harkn. New Cal. Fung. pag. 20. Conidiis medio inflatis demum dolioliformibus, 34-38 \approx 20-22, nucleis numerosis, rotundis vel ellipsoideis, 5-6 \approx 2-4, (ex utraque extremitate conidiorum exentibus) repletis.

Hab. in ramulis vivis *Quercus agrifoliæ*, socio statu conidico, S. Francisco in California.

- * 2. **Sphærotheca fugax** Penz. et Sacc. App. Fl. Mic. Monte Gen. p. 10. 6182
— Hypogena; mycelio tenui, pruinoso, persistente; peritheciis minutissimis, 100 μ . diam., nigris, sphæroideis, vix depressis, contextu parenchymatico; appendicibus hyalinis vel basi dilute fuliginis, simplicibus, continuis, longissimis, flexuosis; asco ovato, 80-90 \approx 75-80; sporidiis in asco octonis, ovoideis vel ellipticis, continuis, hyalinis, 20 \approx 12-14.

Hab. in pagina inferiore foliorum languidorum *Geranii silvatici* in Italia bor. (O. PENZIG). — Affinis *Sph. pruinosa*.

UNCINULA Lév. — Sacc. Syll. I, pag. 6.

- * 13. **Uncinula australis** Speg. Fung. Guar. Pug. I, n. 167. — Epiphylla; 6183
mycelio arachnoideo, grisescenti-albo, late folia ambiente eisque arcte adnato, tenui, compactiusculo, non pulverulento; peritheciis densiuscule hinc inde sparsis, globoso-depressis, minutis, 100-120 μ .

diam. atris, glabris, membranaceo-coriacellis, contextu parenchymatico, parum perspicuo, fuligineo, basi 20-40 appendiculis radiantibus ornatis; appendicibus divaricatis, 100-130 μ 4-7, utrinque gradatim attenuatis et levibus, medio sæpius incrassatulis ac minutissime densiusculeque granuloso-papillatis, apice sæpius semel plus minusve circinatis (rarius rectis atque obtusatis) hyalinis; ascis et sporidiis non visis.

Hab. ad folia viva Myrtaceæ cujusdam prope Paraguay Brasil.

PLEOCHÆTA Sacc. et Speg. — Sacc. Syll. I, pag. 9.

1. **Pleochæta Curtisii** Sacc. et Speg. Fungi Arg. Pug. II, pag. 44, 32 et Sacc. Syll. II, p. 9, *Uncinula polychæta* Berk. et Curt. Grev. 1876, p. 159 et Ellis in Journ. of Myc. 1886, p. 43, *Uncinula Lynckii* Speg. Fungi Arg. Pug. II, p. 17, n. 54. — Perithecia 225-230 μ . diam., appendicibus numerosis circ. 200, hyalinis, continuis, apice attenuatis et incurvatis ornata et ascos circ. 50, bisporos continentia. — Cl. Ellis, in Journ. of Myc. l. c., speciei Spegazzinianæ et *Uncinulæ polychæte* B. et Curt. identitatem comprobavit, hinc nomen *Pleochæte Curtisii* servandum.

MICROSPHÆRA Lév. — Sacc. Syll. I, pag. 10.

- *13. **Microsphæra erineophila** Peck in Torr. Bot. Club. 1883, p. 75. 6184
Mycelio arachnoideo, subpersistente; peritheciis 75-100 μ . diam., sæpe collapsis vel pezizæformibus; appendiculis 6-12 cir. diam.; perithecii longitudinem æquantibus vel minoribus, coloratis, apice pallidioribus bis, ter dichotome ramosis; ascis 4, sæpe 3-vel 5, octosporis; sporidiis 20-23 μ 10-12, sæpe 1-2-nucleatis.
Hab. in foliis Fagi, *Erineo* invasis, Illinois, Amer. bor. (A. B. SEYMOUR).
- *15. **Microsphæra Nemopanthis** Peck in 38 Rep. St. Mus. pag. 102. 6185
— Mycelio arachnoideo, parco, amphigeno; appendiculis raris, 5-12, longitudine diametrum peritheciolorum non vel vix æquantibus, in cymam 4-5-ies dichotomam desinentibus, coloratis, sæpe basi furcatis, ramulis extimis recurvis; ascis sæpe quatuor, 6-8-sporis.
Hab. in foliis vivis *Nemopanthis canadensis*, Karner Amer. bor. — Habitu *M. Berberidis* similis, sed ascis minus numerosis et appendiculis coloratis mox distinguenda.
26. **Microsphæra densissima** (Schw.) Peck 28 Rep. St. Mus. Sacc. 58 Syll. I, p. 15, Ell. et Mart. in Journ. of Myc. 1885, p. 101. — Pe-

rithecia nigra globosa, demum depressa, 120 μ . diam., appendicibus continuis, subhyalinis, bis dichotome ramosis, ramulis extimis curvatis, 96-120 \approx 7; asci sex, 6-8-spori; sporidia ovata, granuloso-nucleata, 21-25 \approx 12.

Hab. in foliis vivis *Quercus laurifoliæ*, Cove Springs Amer. bor.

ERYSIPHE Hedw. — Sacc. Syll. I, p. 15.

Erysiphe trina Harkn. New Calif. Fungi pag. 21. — Epiphylla; mycelio maculas orbiculares tegente, pruinoso, fugaci; peritheciis aggregatis, minutis, flavo-brunneis, 56-70 μ . diam., appendicibus nullis; ascis 3, subglobulosis, 32-38 μ . diam.; sporidiis 2, oblongo-ellipsoideis vel sæpe navicularibus, latis. 6186

Hab. in foliis vivis *Quercus agrifoliæ* in California.

MONASCUS Van Tiegh. in Bull. Soc. Bot. 1884, p. 226. — (Etyim. *monos* unus et *ascus*). — Mycelium effusum septatum, album, ramosum. Hyphæ conidiferæ erectæ. Conidia solitaria vel catenulata. Perithecia globosa, pedicellata, membranacea, ramulis sursum incurvatis obvallata, monoasca. Asci polyspori vel 4-8-10-spori, globosi. Sporidia ovoidea vel globosa, minuta, hyalina.

1. **Monascus ruber** Van Tiegh. in Bull. Soc. Bot. Franc. 1884, pag. 227. — Mycelio repente, effuso, septato, pseudo-dichotome ramoso; hyphis fertilibus conidia catenulata sustinentibus; peritheciis breviter pedicellatis, rufo-brunneis, minutis, 40-50 μ . diam. sphaeroideis; pedicellis hyphâ crassioribus, bi-tri-septatis, verticillum ramulorum, apice incurvatorum, ad septum secundum insertum gerentibus, ramulis perithecium circum circa amplectentibus; asco globoso, tunica crassa prædito, breviter pedicellato, polysporo (vel quandoque 4-8-10-sporo et tum 11-16 μ . diam.); sporidiis ovoideis, continuis, 7-8 \approx 4-5, hyalinis. 6187

Hab. in residuis *Solani tuberosi*, Paris Galliaë.

2. **Monascus mucoroides** Van Tiegh. in Bull. Soc. Bot. Fr. 1884, p. 229. — A præcedente differt præcipue hyphis conidiferis brevioribus crassioribusque, peritheciis longius pedicellatis, majoribus, 60-70 μ . diam., pedunculo pluriseptato et sporidiis sphaeroideis, 8 μ . diam. 6188

Hab. in..... Paris Galliaë.

Sect. 2. Scolecosporæ Sacc.

HYALODERMA Speg. Fung. Guar. Pug. I, n. 171 (Etym. a *hyalos* hyalinus et *derma* pellis). — Mycelium biogenum, tenue, dematiatum. Perithecia minutissima, globosa, astoma, deorsum merenchymatico-radiantia, persistentia, fusca, sursum anhyista, mucedinea, hyalina, mox fatiscentia, glabra. Asci obovati, octospori, aparaphysati. Sporidia acicularia, pluriseptata, hyalina.

1. **Hyaloderma imperspicuum** Speg. Fungi Guar. Pug. I, n. 171. — 6189
Hypophyllum, rarius epiphyllum; mycelio tenuissimo vix perspicuo, arcte epidermide foliorum adnato, mucedineo-fibroso, atro, radiante, plagulas fuscas hinc inde efficiente; peritheciis in plagulis laxè gregariis, minutissimis, 60–80 μ . diam., globosis, astomis, fuscidulis, postice membranaceis, persistentibus, contextu merenchymatico, radiante, antice anhyistis, hyalinis, fatiscentibus; ascis paucis, vix 8–12, obovatis, sursum late rotundatis ac crassissime tunicatis, deorsum attenuatis, breviter noduloseque stipitatis, 40 \approx 45 \approx 12–18, octosporis, aparaphysatis; sporidiis fuscoideo-acicularibus, utrinque acutiusculis, 30–38 \approx 2–2,5, 4-septatis, ad septa non vel vix constrictis, loculo secundo supero crassiore, hyalinis.

Hab. ad folia viva Sapindacearum, Solanacearum etc. in silvis prope Guarapí Bras. — Species sæpius in consortio *Meliolarum* vel *Dimerosporiorum*, an potius parasitica?

Subfam. 2. Perisporiæ Sacc.*Sect. 1. Hyalosporæ* Sacc.

EUROTIIUM Link. — Sacc. Syll. I, p. 25.

4. **Eurotium lateritium** Mont. Sacc. Syll. I, p. 26, Bacc. et Avetta 104
Contr. Stud. Myc. roman. p. 5. — Perithecia celluloso-membranacea, lutea dein ochracea; floccis dense contextis, lanæformibus, luteo-aurantiacis immersa vel interdum fere denudata, 100–120 μ . lat.; asci globosi vel elliptici, 16 \approx 12, evanescentes, 8-spori; sporidia sphaeroidec-polygona vel biconvexa, lutea, 7 \approx 5, episporio crasso.

Hab. in foliis siccis Eucalypti in herbario Horti botanici Romani.

17. **Eurotium creatinum** Nyl. Anal. Myc. in Bidrag till Finlands 117
Nat. Etn. Stat. 4, h. 1858–59, Sacc. Syll. I, pag. 28, Karst. Rev.

Mon. p. 90. — Peritheciis primo albis, dein nigricantibus et nigris, parvis 200-300 μ . lat.; sporidiis sphæroideis, 10-15 μ . diam., hyalinis; hyphis albis, tenuiter effusis, parum articulatis vel sæpe spatio longo inarticulatis, 22 μ . crassis.

Hab. supra carnem, Helsingfors Fennicæ.

MYRIOCOCCUM Fr. — Sacc. Syll. I, pag. 29.

1. **Myriococcum sparsum** Harkn. Californ. Fungi pag. 22. — Peri- 6190
theiciis sparsis, luteo-brunneis, 170-180 μ . diam., subiculo albo, parco cinctis; sporidiis numerosis, inæqualiter ellipsoideis, hyalinis, utrinque apiculatis, nucleo crasso præditis, 7-9 \simeq 4-6.

Hab. in truncis emortuis Aceris macrophylli inter corticem et lignum, Sunol Californiæ.

LASIOBOTRYS Kunze. — Sacc. Syll. I, pag. 29.

1. **Lasiobotrys affinis** Harkness New Calif. Fungi pag. 22. — Hy- 6191
pophylla, nigra, circulariter aggregata, depressa, hyphis radiantibus, continuis cincta; acervulis 2-6 mm. diam.; peritheciis reticulatis, brunneis, globosis, 70-100 μ . diam.; ascis breviter stipitatis, subcylindraceis, 60-70 \simeq 12-14; sporidiis fusoides, flavo-brunneis, uniseptatis, septo in parte majori, 15-17 \simeq 6-7.

Hab. in foliis vivis Loniceræ hispidulæ, Tamalpais in California.

Sect. 2. Phæosporæ Sacc.

CHÆTOMIDIUM Zopf. — Sacc. Syll. I, pag. 30.

- * 1. **Chætomidium Pircuniæ** Bacc. et Avett. Contr. Stud. Myc. roman. 6192
pag. 5, t. XVI, f. 1. — Peritheciis membranaceis, globosis, superficialibus, astomis, ochraceis, denique (ob sporidia atra inclusa) nigricantibus, undique pilis albis, longissimis, ramosis, vestitis, circulariter dehiscentibus, 330 μ . lat.; ascis cylindricis, 8-sporis, brevissime stipitatis, cito evanidis, aparaphysatis, 100 \simeq 18; sporidiis atris, ovoideis vel ellipticis, continuis, uno tantum apice appendicula hyalina, lenticulari præditis.

Hab. in trunco putrescente Pircuniæ dioicæ in Horto Panisperna, Roma Italiæ.

Sect. 3. Didymosporæ Sacc.

ASTERINA Lév. — Sacc. Syll. I, p. 39.

- * 6. **Asterina microthyrioides** Wint. in Hedw. 1885. — Subiculo nul- 6193

Sejner

lo; peritheciis hypophyllis, sparsis vel laxe gregariis, rarius paucis densius aggregatis confluentibusque, depresso orbicularibus vel scutellatis, minutissimis, atris, rugulosis, opacis, centro subpapillatis, membranaceis, sub microscopio margine radiato-fimbriatis, fuscis, centro dilutioribus, fere ostiolatis, 300 μ . circ. latis; ascis ovatis vel elliptico-subclavatis, breve pedicellatis, 8-sporis, 40-50 \approx 18-21; sporidiis conglobatis, lanceolatis, utrinque anguste rotundatis, medio uniseptatis, non constrictis, hyalinis, tandem fuscidulis, 19 \approx 5.

Hab. ad folia subviva Eucalypti pilularis var. acmenoidis in Australia (MÜLLER).

- *7. **Asterina crustacea** Cooke in Grevillea XIV, p. 13. — Amphigena, crustacea, atra; peritheciis applanatis, in maculis orbicularibus confluentibus; margine radiato-fimbriato, arcte adnato; ascis obovato-piriformibus, octosporis; sporidiis ellipticis, uniseptatis, medio constrictis, fuscis, 32-35 \approx 16-18. 6194

Hab. in foliis emortuis Rhododendri prope Java (Dr. TH. ANDERSON).

- *8. **Asterina interrupta** Winter Exot. Pilze in Flora 1884, pag. 6. — Mycelio effuso, maculas rotundatas seu irregulares, 1½-7 mm. diam., demum sæpe confluentes, fusco-cinereas vel brunneas formante, ex hyphis ramosis, anastomosantibus, fuscis, passim tumidulis contexto; hyphis mycelicis septis inter se binis, proximitatis præditis; peritheciis primo in centro macularum dispositis, demum in tota macula sparsis, planis, rotundatis, ambitu irregulariter fimbriatis, centro dilapsis, fusco-atris, 120-160 μ . diam.; ascis oblongis, apice late rotundatis, basi in stipitem brevem attenuatis, 8-sporis, 45-52 \approx 17-24; sporidiis conglobatis, ellipticis, fuscis, medio fascia hyalina, transversa præditis, 14-16 \approx 7-9. 6195

Hab. in foliis languescentibus Leucospermi conocarpi et Leucadendri sp. in Promontorio Bonæ Spei Africæ austr. (MAC-OWAN).

- *9. **Asterina Baileyi** Berk. et Br. IV. List. Fung. Brisb. Queesl. n. 269. — Mycelio fusco, nodoso-ramoso, maculas rufo-brunneas in foliis efformante; peritheciis minutis, rugosis, fuscis, fibrillis paucis adhærentibus; ascis clavatis, 8-sporis; sporidiis distichis, ovoideo-oblongis, uniseptatis, septo constrictis, brunneis 37 μ . longis. 6196

Hab. in foliis plantæ ignotæ, Brisbane.

- *13. **Asterina Licania** Cooke in Grevillea vol. XII, pag. 85. — Epiphylla; maculis suborbicularibus, tenuibus, 1 cm. diam., atro-fuli- 6197

gineis; peritheciis applanatis, orbicularibus, margine hyphis fuscis, intertextis ornatis; ascis amplis, saccatis; sporidiis ellipticis, obtusis, medio constrictis, uniseptatis, atro-fuscis, 40-45 \approx 22-26.

Hab. in foliis *Licania*, S. Carlos (SPRUCE).

- * 17. **Asterina infuscans** Wint. in Hedw. 1885. — Mycelio ex hyphis 6198
 ramosissimis, torulosis flexuosisque, septatis, fuscis, densissime intertextis constante, foliorum paginam inferiorem longe lateque obducente et infuscante; peritheciis gregariis sparsisque, minutissimis, depresso hemisphaericis, centro diffractis et demum evanescentibus, fusco-atris, ambitu fibrillosis, 95-130 μ . latis; ascis oblongis seu e basi parum ventricosis, sursum ellipticis, fere sessilibus vel in stipitem brevem attenuatis, 8-sporis, 30-35 \approx 9-11; sporidiis conglobatis, clavatis, 2-cellularibus, medio non constrictis, hyalinis, 8-9,5 \approx 2,5-3.

Hab. ad folia subviva *Euclea* undulatae ad latera montis Boschberg prope Somerset-East, Promont. Bonae Spei (MAC-OWAN).

- * 18. **Asterina Gaultheriae** Curtis herb. Martin in Journ. of Myc. 1885, 6199
 p. 134. — Peritheciis brunneo-nigris, applanatis, centro leniter elevatis, hypophyllis, sparsis, 170-250 μ . diam., mycelio parco, brunneo, ramoso cinctis; ascis ovatis, 22-25 \approx 13-16; sporidiis hyalinis, obovatis, uniseptatis, cellula superiore latiore, 9 \approx 3.

Hab. in foliis vivis *Gaultheria* procumbentis, Newton Americae borealis.

- * 19. **Asterina patelloides** E. et M. in Journ. of Myc. 1885, p. 136, 6200
Asterina erysiphoides E. et M. — Ell. N. Amer. Fungi n. 1359. — Peritheciis brunneis, orbicularibus, applanatis, centro depressis, hypophyllis, 275-300 μ . diam., mycelio radiante, albo, parco cinctis; ascis ovato-oblongis, 8-sporis, 36 \approx 15; sporidiis, obovatis, 1-septatis, binucleatis, hyalinis, 15 \approx 6.

Hab. in foliis vivis *Quercus laurifolia*, Florida Americae borealis.

- * 22. **Asterina subcyanea** Ellis New Spec. North Am. Fungi in 6201
 Amer. Nat. 1884, pag. 1147. — Peritheciis hypophyllis, superficialibus, depressis convexisque, 250-350 μ . diam. parenchymaticis; cellulis subsphaeroideis, 5-7 μ . diam., cyaneo-viridibus, extimis moniliformibus, circum circa basim perithecii in membranam tenuem septatam, superficiei foliorum adpressam contextis; ostioli papilliformibus, collapsis, siccis poro pertusis; ascis utrinque leniter acutis, sessilibus, 75 \approx 15; sporidiis distichis, oblongo-clavatis, uniseptatis, 20 \approx 5-7, hyalinis.

Hab. in foliis vivis *Quercus laurifoliae*, Cove Springs in America boreali.

- *23. **Asterina lepidigena** Ell. New North Am. Fung. in Amer. Nat. 6202
1884, pag. 1148. — Peritheciis atris, subglobosis vel oblongo-applanatis, tenuibus et fragilibus, 200-300 μ . diam., mycelio hyalino, parco insidentibus; ascis ovatis vel oblongis, 8-sporis, 30-42 \approx 12-15; sporidiis obovatis, hyalinis, biseptatis, 12 \approx 4.

Hab. in foliis vivis *Andromedæ ferrugineæ*, Cove Springs Americæ borealis.

- *24. **Asterina pustulata** Ellis New North Am. Fungi in Amer. Nat. 6203
1884, pag. 1148. — Peritheciis imperfecte evolutis, e nucleo centrali, celluloso, compacto formatis; cellulis subglobosis, brunneis, in hyphas ramosas, brunneas, fimbriatas desinentibus et membranam circularem, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., in foliorum superficie formantibus; ascis subglobosis, 8-sporis, 55 μ . diam.; sporidiis obovatis, hyalinis, uniseptatis, 30-40 \approx 10-12.

Hab. in foliis *Quercus laurifoliae*, Cove Springs Amer. bor.

- *25. **Asterina intricata** Ell. et Mart. Amer. Nat. Bot. 1884, p. 69. 6204
— Peritheciis sparsis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., suborbicularibus, applanatis, nigris, contextu parenchymatico, atro; ascis copiosis, obovatis, sessilibus, 15 \approx 10; sporidiis subtilibus, clavato-oblongis, hyalinis, mucro obvolutis, circiter 9 \approx 3, endochromate bipartito.

Hab. in pagina inferiore foliorum viventium *Quercus arenariae*, New Florida Amer. bor. — Peritheciis latis, applanatis, sparsis, mycelio nullo mox dignoscenda.

- *26. **Asterina discoidea** Ell. New North Am. Fung. in Am. Nat. 1884, 6205
pag. 1148. — Peritheciis hypophyllis, orbicularibus, leniter centro depressis, olivaceis, tenuibus, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., margine indistincte reticulato; ascis obovatis vel globosis, 30-40 \approx 30-35; sporidiis conglomeratis, clavato-oblongis vel piriformibus, uniseptatis, 12-16 \approx 4-5.

Hab. in foliis vivis *Quercus laurifoliae*, Cove Springs in America boreali.

- *28. **Asterina Dodonæi** Pass. in Erb. Critt. Ital. Ser. II, n. 1460. — 6206
Acervulis orbicularibus, sparsis fumosis; peritheciis membranaceis, pluribus, fuscis ex hyphis intricatis, fuligineis vel (junioribus?) hyalinis, crebre articulatis, tandem quandoque exaridis («?») formatis; ascis, plurimis, parvulis, oblongis, 8-sporis; sporidiis distichis, ovato-oblongis, medio septatis et constrictis, loculo altero angustiore, 12,5 \approx 5, hyalinis.

Hab. in caulibus languidis *Epilobii Dodonæi* prope Parma Italiæ borealis.

- *29. **Asterina carnea** Ell. et Mart. in Amer. Nat. Bot. 1883, p. 1285. 6207

— Hypophylla; mycelio tenui, brunneo-nigro, subcrustaceo, hyphis subanastomosantibus, brunneis, adpressis, sæpissime marginem foliorum occupantibus et maculas orbiculares, circiter $\frac{1}{2}$ cm. diam. efformantibus composito; peritheciis minutis, 55-75 μ . diam., mycelio insidentibus, stipatis, globosis, astomis, sub lente carneis atque majore amplificatione luteolis; ascis 4-8, obovatis, sessilibus, 30-40 = 22-35, octosporis; sporidiis ovatis, bicellularibus, 16-17 = 7-8, mucro obvolutis.

Hab. in foliis vivis *Perseæ palustris*, New Florida Americæ borealis.

- *32. **Asterina stomatophora** Ell. et Mart. in Journ. of myc. 1885, p. 6208

98. — Peritheciis lenticularibus, sparsis, minutis, 170-185 μ . diam., mycelio reticulato insidentibus, centro pertusis, parenchymatice contextis; ascis oblongis vel oblongo-ovoideis, 30-35 = 6-8, stipitatis, basi abrupte contractis, aparaphysatis; sporidiis distichis, uniseptatis, subconstrictis, basi acutis, 7-12 = 2,5-3, hyalinis.

Hab. in foliis vivis *Quercus laurifoliæ* in Amer. bor.

- *33. **Asterina peribebyensis** Speg. Fungi Guar. Pug. I, n. 173. — 6209

Epiphylla; mycelio late diffuso, folium totum sæpe obtegente, atro, tenui, mucedineo-crustaceo, e cellulis ellipsoideis vel e mutua pressione irregularibus, mediocribus (articulis hypharum), crasse 2-guttulatis, 5-7 = 3-4, olivaceis composito, arcte foliorum epidermidi adnato; peritheciis dense sparsis vel hinc inde plus minusve aggregatis, globosis, minutis, 80-100, astomis, atris, glabris, tenui-membranaceis, contextu parenchymatico, parum distincto, olivaceo; ascis paucis, ovatis vel obclavatis, antice truncato-rotundatis atque crassissime tunicatis, tunica 6-8 μ . crassa, postice abrupte attenuato-coarctatis, minute noduloseque stipitatis, 26-28 = 10-12, octosporis, aparaphysatis; sporidiis polystichis, elongato-ellipsoideis, 12-14 = 3, rectis vel inæquilateralibus, medio uniseptatis, vix constrictis, loculis centro 1-septatis, non constrictis, supero crassiore brevioraque, hyalinis.

Hab. ad folia viva arborum in silva montana, Naranjo Cordillera de Peribeby Brasil. — Species, ut videtur, vulgatissima sæpius in consortio *Meliolarum* vel *Dimerosporiorum* et facillime in iis parasitica.

- *36. **Asterina nuda** Peck in 38 Rep. St. Mus. pag. 102, tab. 2, fig. 6210

11-15. — Peritheciis numerosis, gregariis vel stipatis, superficialibus et nudis vel basi filamentis brevibus, minutis parce præditis, globosis vel subdepressis, 80-100 μ . diam. atris; ascis oblongis vel subcylindraceis, 40 \approx 12; sporidiis stipatis aut distichis, oblongis, uniseptatis, 10-12 \approx 5-6.

Hab. in foliis emortuis Abietis balsameæ in montibus Adirondack Amer. bor.

- *37. **Asterina Pearsoni** E. et E. Journ. of Myc. 1885. — Peritheciis minutis 100 μ . crass., superficialibus, sursum inconspicue perforatis, parenchymaticis, mycelio subradiato, parco præditis; ascis sessilibus oblongis obtusis, aparaphysatis, 40 \approx 15; sporidiis distichis, clavato-oblongis, granulosis, 1-septatis, medio constrictis, 15-20 \approx 3,5-4,5, basi acutis, sursum obtusis, hyalinis.

Hab. in sarmentis putridis Rubi culti, Vineland Amer. bor. (PEARSON).

- *39. **Asterina delitescens** E. et Mart. in Amer. Nat. 1883, pag. 1281. — Mycelio tenui, nigro, epiphylo, maculas orbiculares, minutas, 2-4 mm. diam., efformante, hyphis ramosis, copiosis, adpressis composito; peritheciis mycelio insidentibus, applanatis, stipatis, 75-100 μ . diam., contextu radiatim celluloso; ascis 30-35 \approx 18-22, obovatis vel subglobosis; sporidiis pallide luteis, bicellularibus, ovato-oblongis, 15-18 \approx 6-7.

Hab. in foliis vivis Perseæ palustris, New Florida Amer. bor. — Habitu *A. pelliculosa* proxima, a qua distinguitur sporidiis minus constrictis characteribusque mycelii.

- *42. **Asterina tenella** Cooke in Grevillea XIII, p. 67. — Epiphylla, effusa, tenuis, atra; peritheciis minutis, 220 μ . diam.; applanatis, cum mycelio repente, brunneo immixtis; ascis saccatis, 4-8-sporis; sporidiis (in ascis octosporis) 28-30 \approx 12-14, (in ascis tetrasporis), 40 \approx 22, pallide fuscis.

Hab. in foliis Perseæ caroliniensis in Carolina America borealis (RAVENEL).

- *46. **Asterina quercigena** (Berk.) Cooke in Grevillea XIII, pag. 67, *Dothidea quercina* Berk. in Herb. — Epiphylla vel amphigena; peritheciis orbicularibus, 1-2 mm. diam., convexis, rugosis, atris, opacis, margine radiante, fibroso; ascis clavatis; sporidiis ellipticis, continuis (immaturis?), hyalinis, 10 \approx 4.

Hab. in foliis Quercuum, Sikkim Indiæ or.

- *47. **Asterina myocoproides** Sacc. et Berl. Rev. Myc. 1885, tab. LIV, fig. 1. — Amphigena; peritheciis fibrillis repentibus, ramosis, atris,

nodulosis, septatis insidentibus, scutiformibus, planis, fere $\frac{1}{2}$ mm. diam., ambitu circulari vel sæpe anguloso, radiato-contextis; ascis obovatis, crasse tunicatis, 50-60 \approx 20-22, octosporis; sporidiis distichis vel subtristichis, ovoideis, continuis, subhyalinis, 26-28 \approx 10-12.

Hab. in foliis vivis..... Santos in Brasilia. — Peritheciis vere dimidiatum, hinc certe ad *Microthyriaceas* referenda species. Inquirendum an et pleræque *Asterinæ* species aptius inter *Microthyriaceas* locandæ sint.

- * 48. **Asterina maculæformis** (Berk.) Cooke in Grevillea XIII, p. 66, 6216
Dothidea maculæformis Berk. in herb. — Epiphylla, atra, opaca, orbicularis, maculæformis; stromate discoideo, maculis piceis, orbicularibus insidente, fibrillis radiantibus cinto; ascis ovoideis, 20 \approx 15; sporidiis ellipticis, continuis (immaturis?), hyalinis, 5 \approx 3.

Hab. in foliis *Drymidis*, Valparaiso in Chile. — Habitu *A. compactæ*, sed ceterum diversa.

48. **Asterina clavuligera** Cooke. — Sacc. Syll. I, n. 48, Martin in Journ. 6217
of Myc. 1885, pag. 145. — Asci ovati, 30 \approx 18; sporidia hyalina, ovalia vel obovata, 1-septata, 21 \approx 6.

Hab. in foliis *Vaccinii* et *Andromedæ*, Florida Americæ borealis.

- * 49. **Asterina concentrica** Cooke in Grevillea XIV, p. 13. — Ma- 6218
culis atro-fuscis, orbicularibus vel confluentibus; peritheciis minutis, appianatis, concentricè dispositis, margine radiante; ascis clavatis, octosporis; sporidiis ellipticis, continuis, (?) hyalinis, 8 \approx 3, (valde immaturis visis).

Hab. in culmis Sacchari in India.

- * 51. **Asterina minor** E. et Ev. in Journ. of Myc. 1886, pag. 42. — 6219
Peritheciis appianatis, superficialibus, orbicularibus, $\frac{1}{4}$ mm. diam., atris; mycelio obsoleto; ascis obovatis, 25-30 \approx 12-15; sporidiis stipatis, oblongo-ovatis, 1-septatis, luteolis, 10-13 \approx 3-3 $\frac{1}{2}$ (demum brunneis?).

Hab. in ramulis emortuis, Huston, Texas Amer. bor. (H. W. RAVENEL). — Differt ab *A. ramulari* peritheciis et sporidiis minoribus.

- * 54. **Asterina Bambusella** Speg. Fungi Guar. Pug. I, n. 172. — Epi- 6220 *Ast.*
phylla; mycelio nullo vel vix e fibris paucis crassis, brevibus, fuliginis, intricato-ramosis, composito; peritheciis hinc inde in plagulas lineares, strictas ac breves, 2-5 mm. longas, 0,2-0,5 mm. latas dispositis, dense constipatis, basi subconfluentibus et (an vere

confluentibus? tandem *Dothideaceis?*) globosis, 180-220 μ . diam., atris, glabris, rugulosis, astomis (?), sed per ætatem lacero-dehiscens, membranaceo-coriacellis, contextu crassiusculo, obscure parenchymatico-sinuoso, olivaceo-faligineo; ascis cylindræis vel subcylindræis-clavatis, apice subtruncato-rotundatis crassiusculeque tunicatis, deorsum attenuatis breviterque noduloso-stipitatis, 65-75 \approx 8, paraphysatis, octosporis; sporidiis distichis vel oblique monostichis, elongato-ellipticis, 16-20 \approx 4-5, rectis vel leniter inæquilateralibus, centro 1-septato-constrictis, loculis crasse 1-2-guttulatis ac medio subcoarctatis, supero obtusiore crassioreque, infero graciliore acutioreque, per ætatem 3-septatis, hyalinis.

Hab. ad folia viva *Bambusaceæ* cujusdam in uliginosis silvæ Naranjo Bras.

- * 62. **Asterina Celastris** E. et K. in Journ. of myc. 1885, pag. 2. — 6221
 Peritheciis hypophyllis, gregariis vel sparsis, convexis, orbicularibus, $\frac{1}{4}$ mm. diam., atris, basi mycelio brunneo, radiato, parcoctis; ascis oblongo-ovoideis, 12-15 \approx 6-7, immaturis protoplasmate granuloso farctis.

Hab. in foliis vivis *Celastris* scandentis, Manhattan Kansas Americæ borealis.

DIMEROSPORIUM Fuck. — Sacc. Syll. I, p. 51.

- * 1. **Dimerosporium eriophilum** Wint. Cont. Flor. myc. Lus. Ser. VI, 6222
 p. 9. — Peritheciis hypophyllis, dense sparsis, globosis, minutissimis, membranaceis, fusco-atris, mycelio repente, ramoso, articulato, fusco insidentibus, superficialibus, astomis, 60-80 μ . diam.; ascis fasciculatis, aparaphysatis, e basi oblonga sursum parum attenuatis, sessilibus, 8-sporis, 30-35 \approx 7; sporidiis subdistichis, ellipsoideis, medio septatis et profunde constrictis, pallidissime fuscidulis. 7 \approx 3.

Hab. ad folia subviva *Quercus cocciferæ* in Campo Redondo prope Braganca in Lusitania (MOLLER).

- * 2. **Dimerosporium Osyridis** Winter Ex. Pilze in Flora 1884, p. 7. 6223
 — Hyphis mycelicis fuscis, ramosis, radiantibus, maculas atras, rotundatas seu irregulares, usque 2 mm. latas formantes; peritheciis gregariis, depresse globosis, rugulosis, glabris, atris, sub microscopio fere impellucidis, fuscis, 150-210 μ . diam.; ascis cylindræis-clavatis, brevissime stipitatis, 8-sporis, 42-52 \approx 10-12; sporidiis oblique distichis, oblongis, bicellularibus, hyalinis, 9-12 \approx 4-5, ad septum constrictis; paraphysibus filiformibus, ascos æquantibus.

Hab. ad folia viva *Osyridis compressæ* in Promontorio Bonæ Spei Afr. austr. (MAC-OWAN).

- *3. **Dimerosporium eutrichum** Sacc. et Berl. in Rev. Myc. 1885, tab. 6224

LIV, fig. 4. — Peritheciis subiculo atro insidentibus, sphaeroideis, vix papillatis, atris, 140-150 μ . diam.; hyphis repentibus, ramosis, 8 μ . crassis, fuliginosis, septatis, ramulis brevibus, obovatis, 1-septatis, fere sporomorphis; ascis rosulatis, cylindræo-clavatis, apice rotundatis, sessilibus, 36-43 \approx 8-10, octosporis; sporidiis mono-vel distichis, oblongis, didymis, loculo superiore vix crassiore, apice rotundato, infero acutiore, ad septum leniter constrictis, 11-13 \approx 3, hyalinis.

Hab. in pagina inferiore foliorum..... Santos in Brasilia. — Sporidia subinde (spurie?) triseptata visa.

- *4. **Dimerosporium verrucicolum** Wint. in Hedw. 1885, p. 24. — Effu- 6225

sum, hypophyllum, fuliginosum; mycelio ex hyphis ramosissimis, torulosis flexuosisque, dense radiatimque contexto; peritheciis gregariis, globosis, tenuissime membranaceis, fuscis, verticem versus obscurioribus, in centro irregulari-rotundate dehiscentibus, 105 \approx 120 μ . lat.; ascis late oblongis, sursum parum longeque, deorsum stipiteforme attenuatis, 8-sporis, 35-44 \approx 12-14; sporidiis conglobatis, oblongo-subfusiformibus, medio uniseptatis, vix constrictis, hyalinis, 16-17,5 \approx 3,5-4.

Hab. ad folia viva *Oleæ verrucosæ* in monte Boschberg, Promont. Bonæ Spei (MAC-OWAN).

5. **Dimerosporium melioides** (B. et C.) Ellis in Journ. of Myc. 1885, 195

p. 146. *Asterina melioides* B. et C. Grev. 4, p. 10, Sacc. Syll. I, p. 46, *Meliola Baccharidis*, B. et Rav. Grev. 4, pag. 158, — Perithecia brunneo-atra, globosa, rugulosa, astoma, epiphylla, stipata, 80-95 μ . diam., hyphis radiantibus, brunneis insidentia; asci cylindrico-clavati, 8-spori, 33-40 \approx 10-13; sporidia hyalina, subcymbiformia, 1-septata, 1-2-seriata.

- *7. **Dimerosporium guarapiense** Speg. Fungi Guar. Pug. I, n. 169. 6226

— Epiphyllum; mycelio tenuissimo, epidermidi foliorum arcte adnato, maculas atras, subparvulas, 1-3 mm. diam., laxiuscule sparsas, sæpe tamen confluentes ac fere totum folium occupantes efformante, e fibris gracilibus, 2-2,5 μ . crass. ramosis, dense intricato-intertextis, hyphopodiis destitutis, substantiâ mucosâ connexis, obscure septatis, brunneo-fuliginosis composito; peritheciis globosis, minutissimis, 80-150 μ . diam. hinc inde per mycelium laxè confertis, atris, astomis, pilis paucis, sæpius 8 vel 10, minutis, 30-

40 \approx 3-4,5, apice incurvis vel subcircinatis, non septatis, pallide olivaceis, fuligineis ornatis, membranaceis, contextu parenchymatico, olivaceo-pellucido, parum perspicuo; ascis teretibus vel obclavatis, antice truncato-rotundatis, postice subabrupte attenuato-coarctatis, brevissime noduloseque stipitatis, 28-40 \approx 9-12, octosporis, aparaphysatis; sporidiis distichis, primo continuis dein centro 1-septato-constrictis, rectis vel subinæquilateralibus, utrinque obtusissime rotundatis, 10-13 \approx 2,5-5, loculis crasse 2-guttulatis, medio non vel leniter coarctatulis, subinæqualibus vel infero nonnihil graciliore ac longiore, in juventute hyalinis, dein e chlorino pallide olivaceis.

Hab. ad folia viva arborum, Euphorbiacearum et Solanacearum in silvis prope Guarapí et Mbatobí Brasil. — Sporidia in hac specie et in *D. tropicali* facile per ætatem 3-septata sunt et tum ad genus *Asterina* pertinerent.

- *8. **Dimerosporium tropicale** Speg. Fungi Guar. I, p. 168. — Epi-⁶²²⁷ vel hypophyllum, sæpissime in consortio (an parasiticum?) *Meliolarum*, subcrustaceum, tenuissimum, epidermidi foliorum arcte adnatum, e fibris dense ramoso-intricatis, gracilibus, 5-6 μ . crassis, confertiuscule septatis, fuligineis, hyphopodiis destitutis, substantiâ mucosâ connexis compositum; peritheciis globosis, minutis, 70-100 μ . diam., astomis (?), atris, superficialibus, glabris, tenui membranaceo-coriacellis, contextu parenchymatico, cellulis minutis, 3-3,5 μ . diam., composito, fuligineo donatis; ascis teretibus vel obclavatis, antice truncato-rotundatis, deorsum breviter et abrupte attenuato-stipitatis, 25-40 \approx 6-8, non vel parce paraphysatis, octosporis; sporidiis distichis, ellipsoideis vel subclavulatis, 11-12 \approx 3-3,5, utrinque obtusis, centro 1-septato-constrictis, loculis subæqualibus vel infero nonnihil minore acutioreque, crasse 2-guttulatis, sæpius medio leniter coarctatis, hyalinis.

Hab. ad folia viva arborum in silvis subvirginæ prope Guarapí Brasil.

- *9. **Dimerosporium Ulei** Wint. in Hedw. 1885, p. 25. — Mycelio ex hy-⁶²²⁸ phis plus minus radiatim repentibus, irregulariter sed copiose ramosis, fusco-atris, septatis constante, maculas rotundatas vel irregulares, usque 5 mm. latas formante; peritheciis gregariis, rotundato-ellipticis, subdepressis, demum vertice collabascentibus irregulariterque diffractis, tuberculoso-rugosis, atris, 210-300 μ . diam.; ascis late ovatis, subpiriformibus v. globoso-ellipticis, fere sessilibus, 8-sporis, 65-85 \approx 42-52; sporidiis inordinatis, elliptico-

oblongis, didymis, medio profunde constrictis, utrinque late rotundatis, cellula inferiori parum angustiori, intense fuscis, 30-33 \approx 16-17.

Hab. ad folia viva Melastomacearum speciei cujusdam in Brasilia, prope S. Francisco (E. ULE).

- * 10. **Dimerosporium paurotrichum** Sacc. et Berl. in Rev. Myc. 1885, 6229
tab. LIV, fig. 2 sub *D. oligotricho*. — Peritheciis paginam superiorem foliorum occupantibus, hyphis dendritice ramosis insidentibus, radiato-contextis, globoso-depressis, vix $\frac{1}{3}$ mm. diam., atris, subsparsis; ascis crasse tunicatis, amplis, ovatis, stipite nullo, 50-55 \approx 35, octosporis; sporidiis inordinate tristichis, ovoideis, uniseptatis, ad septum constrictis, muco obvolutis, 35 \approx 18, pallidissime luteis.

Hab. in pagina superiore foliorum nondum emortuorum... Santos Bras. — Peritheciis leviusculis, mycelio parco nec maculoso, ascis sporidiisque paullo minoribus, nec non colore subhyalino nec intense fusco sporidiorum, a *D. Ulei* distinguitur.

- * 11. **Dimerosporium venturioides** Sacc. et Berl. in Rev. Myc. 1885, 6230
tab. LIV, f. 3. — Peritheciis globosis v. globoso-conicis, astomis, subiculo atro insertis, contextu laxo parenchymatico, ochraceo; ascis minutis, cylindraceo-rotundatis, octosporis, brevissime pedicellatis, 40-45 \approx 7-9, aparaphysatis; sporidiis mono-vel distichis, oblongo-ovoideis, uniseptatis, non constrictis, 10 \approx 3, brunneolis.

Hab. in pagina sup. Convolvulaceæ cujusdam, Santos Bras. — Adest intermixtum pycnidium: *Chætophoma venturioides*: peritheciis majoribus, atris, globosis, setis erectis, clavatis, a mycelio exorientibus cinctis; sporulis ovoideis, 8 \approx 4, bi-guttulatis, pallide luteis.

- * 12. **Dimerosporium? dubiosum** Speg. Fung. Guar. Pug. I. n. 170. 6231
— Epiphyllum; mycelio foliorum epidermidi arcte adnato ac maculas subdefinitas, ellipticas (longitudinales), parvulas, 1-3 \approx 0,5-1 mm., laxe hinc inde gregarias, rarissime confluentes efficiente; crustaceo-puberulo, atro, compactiusculo, e fibris longiusculis, dense ramoso-intertextis, subgracilibus, 4-5 μ . crassis, densiuscule septatis, testaceis composito; peritheciis in maculis dense 8-15-aggregatis, globosis, parvulis, 120-130 μ . diam., atris, astomis (?), pilis brevibus, 20-30 \approx 5-8, dense crasseque septatis, apice obtusis ac sæpe incurvis, testaceis vestitis, contextu indistincte spongiosocoriacello, rufo-fuligineo, subopaco; ascis cylindraceis, 78-100 \approx 6-7, apice truncato-rotundatis et crassiuscule tunicatis perforatisque,

basi breviter attenuato-stipitatis, aparaphysatis, octosporis; sporidiis distichis vel oblique monostichis, elliptico-lanceolatis, utrinque obtusiusculis, medio 1-septatis, non vel vix constrictis, rectis vel subcurvulis, 18-20 \approx 3-4, loculis non vel minute 2-guttuligeris, supero sæpe subbreuiore crassioreque, hyalinis.

Hab. ad folia viva Bambusaceæ cujusdam in uliginosis, Pastoréo de Caá-guazú Brasil.

MELIOLA Fr. — Sacc. Syll. I, p. 60.

- *2. **Meliola manca** E. et M. Amer. Nat. 1885, p. 1284 et in Journ. of Myc. 1885, p. 148. — Maculis orbicularibus, 1-2 mm. diam., sæpius epiphyllis, sparsis, subinde confluentibus; mycelio nigro, repente, ramoso, ramis oppositis, ramulis brevibus, obovatis, alternis; peritheciis nigris, subglobosis, papillatis, collapsis, appendicibus et hyphis erectis, nullis; ascis ovato-oblongis, sæpius bisporis; sporidiis oblongo-cylindræis, brunneis, 3-septatis, ad septa constrictis, leniter curvulis, 35-45 \approx 12-15. 6232

Hab. in foliis vivis Myricæ ceriferæ, Florida Americæ borealis.

- *4. **Meliola Niessleana** Winter in Hedwigia 1885, p. 260. — Mycelio plagas amphigenas, subminutas, rotundatas vel angulato-irregulares, atras, opacas, $\frac{1}{2}$ -1 $\frac{1}{2}$ mm. latas formante; hyphis dense intertextis ramosis, repentibus, septatis, fuscis, hyphopodia plerumque alternantia, forma varia (rhomboidea, angulata, sæpe tuberculata etc.), stipitata, 21-26 (cum stipite) \approx 14-17, gerentibus, setis rigidis, erectis, atris, obtusis, integris obsitis; peritheciis parvis, superficialibus, globosis, verruculosi, atris, 240-260 μ . diam., basi setis rigidis, subacutis, atris, divergentibus cinctis; ascis oblongis (vel subclavatis), in stipitem brevem, crassum attenuatis, 2-4-sporis, 87-100 \approx 26-32; sporidiis conglobatis, elongato-oblongis, utrinque attenuatis et rotundatis, semper inæquilateralibus vel curvulis, 3-septatis, badiis, ad septa perparum constrictis, 47-54 \approx 14-16. 6233

Hab. in foliis vivis Rhododendri Chamæcisti pr. cauponam «Hinterhorn» faucium «Strub» Salisburgi Germ. (G. NESSL).

- *5. **Meliola guaranítica** Speg. Fungi Guar. Pug. I, n. 177. — Amphigena; mycelio tenui, compactiusculo, subvelutino, atro, plagulas subparvas, 3-8 mm. diam., hinc inde efficiente, ex hyphis sterilibus, repentibus, dense ramoso-intricatis, crassiusculis, 6-7 μ . crassis, flexuosis, fuliginis, hyphopodiis destitutis composito, hyphis conidiferis erectis, rectis, longiusculis, 200-250 \approx 5-6, apice inte- 6234

gris acutisque, opacis, non septatis subaxe vestito; peritheciis centro macularum insidentibus, a setulis conidiferis suboccultatis, globosis, 150-200 μ . diam., glabris, levibus, atris, coriaccello-membranaceis, contextu parenchymatico, pellucido, atro-olivaceo; ascis mox diffluentibus; sporidiis elliptico-elongatis, utrinque obtuse rotundatis, 40-45 \approx 14-18, 3-septatis, fuligineis, loculis duobus extremis pallidioribus.

Hab. ad folia viva arborum in silvis subvirginis prope Guarapi Bras.

- *8. **Meliola cryptocarpa** Ell. et M. Amer. Nat. 1883, p. 1284, Journ. Myc. 1885, pag. 147. — Maculis sæpius epiphyllis, suborbicularibus vel quandoque confluentibus; mycelio pallide brunneo, repente, septato, irregulariter ramoso; conidiis oblongo-fusoideis, pallide brunneis, 3-4-septatis, 30-40 \approx 5-9, sursum acutis vel obtusis, basi in pedicellum breve, hyalinum desinentibus; setis erectis, copiosis, simplicibus, multiseptatis, nigris, apice acuto, pallidiori; peritheciis nigris, subglobosis, parcis, subinde sterilibus, 180-200 μ . diam., collapsis, basi appendicibus divergentibus, brunneis, septatis, setuliformibus, sursum non vel vix undulatis cinctis; ascis oblongo-ovoides, 8-sporis; sporidiis brunneis, oblongis vel clavato-oblongis, distichis, 3-5-septatis, 30-60 \approx 10-12.

Hab. in foliis Gordonis Lasianthus, Florida Amer. bor.

- *7. **Meliola coronata** Speg. Fungi Guar. Pug. I, n. 175. — Epiphylla; mycelio tenuissimo, effuso, plagulas fuscescenti-atras, parum perspicuas, sæpe confluentes, hinc inde efficiente, ex hyphis sterilibus, radiantibus, repentibus, tortuosis, septulatis, hyphopodiis capitatis, 20 \approx 10, alternatim ornatis, fuligineis composito, hyphis conidiferis destituto; peritheciis majusculis, globosis, 200-250 μ . diam., centro plagularum insidenti-aggregatis, in sicco cupulato-collapsis, crasse papillulosis, deorsum nudis, sursum pilis longiusculis, rectis, 60-80 \approx 5, fuligineis, apice integris et obtusis, 1-2-septatis laxè donatis, facillime deciduis, coriaceo-membranaceis, contextu obscure crasseque parenchymatico (cell. 10-13 μ . diam.), olivaceo-fuligineo; ascis ellipticis, utrinque obtuse rotundatis, 40 \approx 15, primo hyalinis, continuis, dein opace fuligineis, 4-septatis, loculis crassissime 1-guttatis.

Hab. ad folia viva Lucheæ divaricatæ in silvis subvirginis prope Guarapi Bras.

- *9. **Meliola obesa** Speg. Fung. Guar. Pug. I, n. 179. — Epiphylla; mycelio subcrustaceo, subfragili foliorum epidermide arcuè adhæ-

*trichospora
hyphopodiata
3-septata*

6235 an ??
*parasite in mycelium
Meliola cryptocarpa*

6235
*hyphopodiata
atricha
4-septata*

rente, tenui, plagulas orbiculares, magnitudine varias, 1-5 mm. diam., atras, opacas efficiente, ex hyphis sterilibus, repentibus, dense intertexto-ramosis, muco conjunctis, hyphopodiis ovoideo-capitulatis, 20 \approx 8-10, basi 1-2-septatis, suboppositis, ornatis efformato, hyphis conidiferis destituto; peritheciis globosis vel globoso-depressis, 140-200 μ . diam., atris, glabris, granulosis, membranaeo-coriaceis, contextu subindistincto, crasse parenchymatico-celluloso, subopaco, atro-fuligineo; ascis bisporis, cito diffluentibus; sporidiis ellipticis, utrinque rotundatis, 30-32 \approx 18-20, 4-septatis, ad septa constrictulis, loculis granuloso-guttulatis, primo hyalinis, dein opace fuligineis.

Hab. ad folia viva Rutaceæ speciei cujusdam in silvis subvirgineis prope Piragù Bras.

9. **Meliola cladotricha** Lév. — Sacc. Syll. I, p. 63, Winter in Hedw. 285
1885, I. — Asci ovato-piriformes, breviter pedicellati, 8-spori, 100-105 \approx 44-50; sporidia conglobata, cylindracea, utrinque late rotundata 3-septata, ad septa parum constricta, muco hyalino obvoluta, badia, 44-52 \approx 12-14.

Hab. ad Melaleucæ cujusdam folia viva, New-Guinea (M. TARLANE) et ad folia Eugeniæ in Australia (MÜLLER).

- * 10. **Meliola balsamicola** Peck in 34 Rep. St. Mus. pag. 52, tab I, 6237
fig. 22-27. — Peritheciis paucis, gregariis, minutis, ovoideis vel subconicis, atris, liberis, mycelio, parco, brunneo-nigricante, maculæformi insidentibus; ascis sæpe oblongis, raro subcylindraceis et elongatis; sporidiis stipatis vel distichis, raro monostichis, uni-septatis, hyalinis 8-11 μ . longis, sæpe 2-3 nucleatis, loculo paululum crassiore.

Hab. in foliis vivis vel languidis Abietis balsameæ in montibus Catskill Amer. bor.

- * 11. **Meliola ampullifera** Wint. in Rev. Myc. 1885. — Mycelio tenuissimo, sæpe fere oblitterato, maculas rotundatas vel irregulares, usque 5 mm. latas, cinereo-atras formante, ex hyphis repentibus, ramosis septatisque, fuscis, 7 μ . crassis, dense intertextis formato; hyphopodiis sæpe oppositis, sessilibus, e basi ventricosa, in collum longum, cylindricum, sæpe flexuosum attenuatis, fuscis, 30 μ . longis, basim versus 5,5-6 μ . crassis, apice 3,5 μ . latis; peritheciis numerosis, gregariis, depresso globosis, mox collapsis, concavis, opace atris, verruculosis, 220-270 μ . diam.; ascis ellipsoideo-oblongis, sessilibus, 3-4-sporis, 80-96 \approx 35; sporidiis cylindrico-ob-

longis, utrinque rotundatis, 5-cellularibus, ad septa parum constrictis, fuscis, 47-58 = 17-19.

Hab. ad folia viva plantæ ignotæ, Paraguay Amer. austr.

- * 12. **Meliola sanguinea** E. et Ev. in Journ. of Myc. 1886, pag. 42. 6239

— Peritheciis membranaceis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., subastomis, levibus, sæpius epiphyllis, solitariis vel in maculis orbicularibus, subindeterminatis, mycelio repente, atro, ramoso, austoriis alternatis, obovatis prædito efformatis, dense gregariis; ascis oblongo-obovatis, bisporis; sporidiis oblongo-cylindraceis, leniter curvulis, 3-septatis, 38-44 = 12-15, utrinque obtusis, primum hyalinis dein brunneis.

Hab. in foliis, caulibus petiolisque Rubi trivialis, Louisiana Amer. bor. (A. B. LANGLOIS). — Folia fungillo invasa rubescunt.

- * 13. **Meliola densa** Cooke in Grevillea XII, p. 85. — Hypo-rarius 6240

epiphylla, aterrima, velutina; maculis orbicularibus, 1 cm. latis, dein confluentibus; peritheciis globosis, atris, leniter verruculosi, 180 μ . diam., inter fibras erectas, apice curvulas, confertissimas quasi absconditis; ascis late clavatis, bisporis; sporidiis ellipticis, 4-septatis, constrictis, fuscis, 45 = 18.

Hab. in foliis Eucalypti, Herbert River, Queensland in Australia, et in foliis Illicis (?) Khasia, India.

- * 14. **Meliola tomentosa** Winter in Rev. Myc. 1885. — Amphigena; 6241

mycelio tenui, ramosissimo, plagulas subparvas, 2-6 mm. latas, interdum confluentes, atras, rotundato-irregulares efficiens; hyphis repentibus, ramosissimis, dense intricatis, crassis, septatis, fuscis, 8,5 μ . crassis, hyphopodia plerumque alternantia, nunquam opposita, typicæ late piriformia, sæpe curvata, pedicellata, 14-18 μ . lata gerentibus; hyphis erectis nullis; peritheciis parvis, depresso globosis, ruguloso-granulosis, 180-240 μ . diam., demum collabascentibus, cupuliformibus, atris; ascis oblongo-ellipsoideis vel oblongis, sessilibus, bisporis, 70 = 35; sporidiis oblongo-cylindraceis, utrinque late rotundatis, 4-septatis, ad septa parum constrictis, fuscis, 52-58 = 20-26, muco hyalino, angusto circumdatis.

Hab. ad folia viva plantæ ignotæ, Paraguay Amer. austr.

— Defectu setarum erectarum a *Meliola amphitricha* et affiniibus, sporidiis multo majoribus a *Meliola inermi* valde diversa.

- * 15. **Meliola ludibunda** Speg. Fung. Guar. Pug. I, n. 178. — Am- 6242

phigena; mycelio tenui, effuso, plagulas atras, velutinas, plus minusve latas sæpeque totum folium ambientes efformante, ex hyphis repentibus, dense intricatis, conferte oppositæque ramosis, ramis

hyphopodiis globoso-capitulatis, 10-12 μ . diam., numerosissimis ornatis, crassiusculis, 6-8 μ . crassis, fuligineis composito, hyphis conidiferis rectis, setuliformibus, pluriseptatis, longiusculis, 100-300 μ . \approx 5-10, apice integris ac subobtusis ornato; peritheciis globosis, in sicco sæpius cupulato-collapsis, 150-200 μ . diam., glabris, papilluloso-rugulosis, atris, sparsis vel aggregatis, senescendo facillime deciduis, coriaceo-membranaceis, contextu parenchymatico, parum distincto, atro-olivaceo; ascis ellipticis, 45-55 μ . \approx 30-35, bisporis, mox diffluentibus; sporidiis cylindraceis vel subelliptico-cylindraceis, magnitudine ludentibus, 28-45 μ . \approx 9-14, 4-septatis, ad septa leniter constrictis, utrinque obtuse rotundatis, fuligineis.

Hab. ad folia viva arborum herbarumque prope Guarapi et Paraguari Bras. — *Obs.* sub hoc nomine formas (species?) plurimas parum definitas (fere *M. amphitrichæ* varietates minores tantum proferentes) hyphis erectis, apice integris, simplicibus, hyphis repentibus, hyphopodiis 1-(rarius 2-)septatis, subglobosis vel ellipticis, oppositis ornatis colligentur; formis his tamen sedulius perscrutatis et characteribus definitis, species plurimæ certe inveniendæ.

? *29. **Meliola Heteromeles** (Cooke et Hark.) Berl. et Vogl. *Meliolopsis heteromeles* Cooke et Hark. in Grevillea XIII, p. 21. — Effusa, atra; mycelio subcrustaceo, moniliformi, ramoso-intertexto, *Capnodio* immixto; peritheciis globosis, 200 μ . diam., membranaceis, liberis; ascis clavatis, octosporis; sporidiis lanceolatis, 3-5-septatis, hyalinis, 40 μ . \approx 8. 6243

Hab. in foliis *Heteromeles* in California.

? *30. **Meliola loganiensis** Sacc. et Berl. Misc. Myc. II, n. 15. — Epiphylla; mycelio late effuso sed tenuissimo, fere nubiloso; hyphis repentibus, filiformibus, patule ramosis, septatis, subhyalinis; peritheciis globulosis, astomis, obtusis, 130-140 μ . diam., atris, setulis divergentibus, rectis, cuspidatis, septatis, fuligineis, sursum pallidioribus parce conspersis; ascis fusoido-clavatis, brevissime stipitatis, apice obtusis, 45-50 μ . \approx 18, suboctosporis; sporidiis substristichis, fusoido-clavulatis, 28-32 μ . \approx 7-8, deorsum acutioribus, 7-8-septatis, non constrictis, hyalinis. 6244

Hab. in foliis submortuis *Smilacis* cujusdam, Logan Australiæ. — Si sporidia constanter hyalina, species hæc genus novum v. saltem sectionem generis novam constitueret.

*35. **Meliola Calendulæ** Malbr. et Roum. in Rev. Myc. 1886, p. 90. 6245
— Peritheciis globulosis, brunneis; ascis ovoideis, 85 μ . \approx 60, 6-spo-

ris; sporidiis ovalibus, hyalinis, 27-30 \approx 18-20; hyphis subhyalinis.

Hab. in caulibus siccis Calendulæ arvensis, Rouen Galliæ (A. MALBRANCHE).

40. **Meliola ganglifera** Kalchbr. Teste Winter (Confr. Rev. Myc. 1885), 315
sporidia sunt cylindræa, utrinque rotundata, 3-septata, ad septa parum constricta, opace atro-fusca, 47-51 \approx 14. (*an Mel. guianensis Sp.?*)

TESTUDINA Bizz. Fungi Ven. novi vel crit. p. 1. (Ety. a quadam similitudine cum testa *Testudinis*). — Perithecia sparsa v. sæpius dense gregaria, superficialia, carbonacea, astoma, globosa vel piriformia, dein in areolas subpentagonas regulariter rupta, basi subnuda. Asci globoso-clavati, stipite articulado, longo, subinde ramoso, inserti. Sporidia ellipsoidea, 1-septata, fuliginea, asperula.

1. **Testudina terrestris** Bizz. Fung. ven. nov. vel crit. pag. 1, t. II, 6246
fig. 1. — Peritheciis $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., dense gregariis, superficialibus, basi nudis vel hyphulis paucis septatisve donatis, astomis, minute foveolatis et rugosis, dein vel levi pressione in fragmenta regulariter pentagona, prosenchymatica, atra diffractis; ascis cito diffluentibus, rotundato-ovalibus, 11-13 \approx 10,5-11, pseudostipite hyphoideo, elongato, septato, subramoso insertis; sporidiis ellipsoideis, utrinque rotundatis, 7-8 \approx 4,4-5, fuligineis, asperulis.

Hab. ad terram cretaceo-sabulosam in Horto botanico Patavino.

CAPNODIUM Mont. — Sacc. Syll. I, p. 73.

- *2. **Capnodium Juniperi** Phill. et Plowr. in Grevillea XIII, p. 75. — 6247
Peritheciis globoso-cylindræis, basi constrictis, circ. 200 \approx 100, mycelio crasso, nigro insidentibus, basi hyphis numerosis, septatis, nigris cinctis; ascis ovatis, 50 \approx 20; sporidiis ovoideis, utrinque acutis, triseptatis, brunneis, distichis, 25 \approx 10.

Hab. in ramulis Juniperi, Forres Britannicæ (Dr. KEITH).

- *7. **Capnodium Heteromeles** Cooke et Hark. in Grevill. XIII, pag. 21. 6248
— Effusum, atrum, subvelutinum; hyphis densissime intertextis, ramosis, septatis moniliformibusque; peritheciis cylindræo-ventricosis, erectis, subtenuibus, simplicibus, 200 \approx 20; sporidiis incertis (potius triseptatis, muriformibus, fuscis) 18 \approx 9.

Hab. in foliis Heteromeles in Californiâ.

- *9. **Capnodium Rhamni** Cooke et Hark. in Grevillea XIII, p. 21. — 6249
Maculæforme, atrum; hyphis repentibus, plerumque moniliformibus, ramosis, stratum tenuem efformantibus; peritheciis erectis, cylindricis, sursum attenuatis, 300 \approx 40 simplicibus, ore fimbriato; spo-

ridiis ellipticis, triseptatis, fuscis, 18-20 \approx 8, uno loculo transversaliter diviso; conidiis liberis, fuscis, uniseptatis 12 \approx 6.

Hab. in foliis Rhamni in California. — Certe a *Cap. rhamnicolo* distinctum.

*21. **Capnodium Tuba** Cooke et Hark. in Grevillea XIII, p. 21. — 6250

Effusum, crustaceum, atrum; hyphis intertextis, ramosis, repentibus, alteris septatis, alteris moniliformibus, crustam crassam, deciduam efformantibus; peritheciis erectis, numerosis, cylindræis, 120 \approx 14, sursum ciliatis, divisis, infundibuliformibus, expansis, conidiis (?) ovatis, continuis, hyalinis, repletis: ascis nondum visis.

Hab. in foliis Umbellulariæ in California.

27. **Capnodium pelliculosum** B. et Rav. — Sacc. Syll. I, p. 79. Martin 349

in Journ. of Myc. 1885, p. 98. — Mycelium epiphyllum, crustam subtilem, filamentis intricatis brunneis subrectangulariter ramosis, 5-8 μ . crassis, conidiferis compositam, superficiem foliorum occupantem efformans; conidia 3-4-stellato-locularia, *Triposporio* similia, primum hyalina dein fusca; hyphæ 4-5-septatæ nucleatæque, 50-76 \approx 7-9, sursum attenuatæ; perithecia pycnidica membranacea, contextu parenchymatico, mycelio insidentia, oblonga, 70-200 \approx 30-50, apice subobtusato vel subfimbriato; sporulæ minutæ, hyalinæ, oblongæ, 3-4 \approx 1; perithecia ascigera mycelio insidentia, depresso globosa, membranacea, 100-150 μ . diam., appendicibus 15-25, brunneis, septatis, 75-100 μ . longis prædita; ascii primum oblongi dein ellipsoidei, 40 \approx 25; sporidia stipata, late fuscoidea, hyalina, primum 1-septata, demum 3-septata, 15-22 \approx 4-7.

Fam. 2. Sphæriaceæ Fr.

Sect. 1. Allantosporæ Sacc.

CŒLOSPHÆRIA Sacc. Syll. I, pag. 91.

2. **Cœlosphæria tristis** (Pers.) Sacc. Syll. I, p. 92, Winter in Hedwigia 1886, p. 104. — Perithecia $\frac{1}{2}$ - $\frac{3}{4}$ mm., diam.; ascii pedicello longo, tenui præditi, octospori, 40-45 \approx 8-9; sporidia plerumque recta, 9,5-11 \approx 2-2,5. — Sec. vero exemplaria anglica (in Fraxino) in herb. Saccardi, ascii p. sp. 26-30 \approx 10; sporidia curvula vel recta, 4-guttata, 15 \approx 2. An ergo duæ species?

*2. **Cœlosphæria anceps** Sacc. et Malbr. Fung. Gall. ser. V, n. 2153. 6251

— Peritheciis erumpenti-superficialibus, in soros minutos, subcir-

culares, 1 mm. circ. diam. dense stipatis, globosis, mox cupuliformibus, levibus, nigris, $\frac{1}{5}$ - $\frac{1}{6}$ mm. diam., ostiolo obsolete, contextu parenchymatico nigricante; ascis clavatis, deorsum attenuatis, 60-65 \approx 8-10, paraphysibus (spuriis?) crassis, septulatis obvallatis, octosporis; sporidiis distichis, botuliformibus. rectis curvulisve, 10-14 \approx 3, bi-quadrigitulatis, hyalinis.

Hab. ad ramos emortuos corticatos Tiliæ, Rouen Galliæ. — Sporidia fere *Cœl. tristis*, sed perithecia multo minora. Hæc in quoque soro 10-12 adsunt.

*3. **Cœlosphæria Suberis** Winter Contr. Fl. Myc. Lus. V, pag. 17. — 6252

Peritheciis sparsis vel gregariis, superficialibus, absque subiculo, lentiformibus, demum collapse-concavis, atris, rugulosis et parcissime pilis brevissimis, fuscis, articulatis obsitis, 0,23-0,26 mm. diam.; ascis cylindræis, utrinque parum attenuatis, sessilibus, 8-sporis, 80-90 \approx 10; paraphysibus filiformibus obvallatis; sporidiis inordinate distichis, allantoideis, fere semiorbiculatim curvatis, hyalinis, continuis, 17-23 \approx 3,5.

Hab. ad Quercus Suberis corticem prope Coimbra in Lusitania (MOLLER).

FRACCHIÆA Sacc. Syll. I, p. 93.

*1. **Fracchiæa Saccardiana** Schulz. in Rev. Myc. 1884. Schulz. Ill. 253

Fung. Slav. n. 100. — Peritheciis gregariis vel hinc inde subaggregatis, globulosis, superficialibus, imo basi coarctatis, vertice rotundatis, vix pertusis, atris, setulis brevissimis, densiusculis vestitis, intus pallidis, $\frac{1}{8}$ - $\frac{1}{5}$ mill. diam.; ascis clavatis, breve stipitatis, paraphysatis, polysporis; sporidiis allantoideis, utrinque rotundatis triguttatis, curvis, hyalinis, 14 \approx 3.

Hab. in ramis decorticatis Cydoniæ vulgaris prope Vinkovce Slavoniæ.

*2. **Fracchiæa Cordæana** Schulz. et Sacc. in Rev. Myc. 1884. Schulz. 6254

Ill. Fung. Slav. n. 101. — Peritheciis hinc inde in acervulos coadunatis, subsuperficialibus vel superficiali-globosis vel globoso-conoideis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam., minute rugulosis, atris, vertice obtusiusculis, minute pertusis, intus pallidis, denique collabascendo umbilicato concaviusculis; ascis paraphysatis, clavatis, mediocriter stipitatis, polysporis; sporidiis allantoideis, sæpius 3-guttatis, 14 \approx 3, utrinque rotundatis, hyalinis.

Hab. in cortice trunci Cydoniæ vulgaris prope Vinkovce Slavoniæ.

CALOSPHERIA Tul. — Sacc. Syll. I, p. 95.

- *6. **Calosphæria hylodes** (Ell. et Ev.) Berl. et Vogl. *Valsa hylodes* 6255
E. et E. in Journ. of Myc. 1886, p. 40. — Pustulis in seriebus vel lineis dispositis; peritheciis membranaceis, globosis, $\frac{1}{2}$ - $\frac{2}{3}$ mm. diam., epidermidem vix elevantibus, in quaque pustula 4-6, substantia fibrosa parum mutata, corticis interioris immersis, ostioliis cylindræis, rugosis, atris, $\frac{1}{3}$ mm. longis, poro minuto pertusis, apice rotundatis, in fasciculum epidermidem perforantem congestis; setis interpositis brunneis, asperulis, fasciculum æquantibus v. longioribus superficiem matricis cæspituloso-velutinam reddentibus; ascis clavatis, in pedicellum gracilem filiformem desinentibus, 18-22 \approx 5 p. sp. parte superiore latiore et obtusa; sporidiis cylindræis, hyalinis, pallide luteis, sæpe curvis, circiter 5 \approx 1, utrinque uninucleatis.

Hab. in cortice arborum emortuarum, Louisiana Amer. bor. (REV. A. B. LANGLOIS).

QUATERNARIA Tul. — Sacc. Syll. I. pag. 106.

- *1. **Quaternaria abnormis** (Fr.) Berl. et Vogl. *Sphæria abnormis* 4208
Fries. S. M. II, p. 411 et Sacc. Syll. II, p. 487, *Valsa abnormis*
Cooke in Grevillea XIII, p. 39. — Sporidia allantoidea, hyalina, minuta.

BIZZOZERIA Sacc. et Berl. Misc. Myc. II, p. 28 (Etym. a cl. bot. JAC. BIZZOZERO de flora veneta meritissimo). — Perithecia superficialia v. basi ligno insculpta, discreta, subcarbonacea, globoso-papillata, numquam collabentia. Asci paraphysati, octospori (breve pedicellati). Sporidia allantoidea, majuscula, continua, subhyalina. A gen. *Calosphæria* peritheciis discretis, subcarbonaceis; numquam collabentibus, sporidiis magnis etc. statim distinguitur.

1. **Bizzozzeria veneta** Sacc. et Berl. Misc. Myc. II, pag. 28, n. 114, 6256
tab. VIII, f. 4. — Peritheciis discretis sed dense gregariis, extus olivaceo-atris, levibus, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., ostiolo brevi papillato; ascis tereti-fusoideis, 110 \approx 14, breviter stipitatis, apice rotundatis, octosporis; paraphysibus filiformibus,asco brevioribus; sporidiis oblique monostichis v. distichis, eximie allantoideis, curvulis, utrinque rotundatis, 35-40 \approx 5-6, dense et minutissime granulosis vel guttulatatis, olivaceo-hyalinis.

Hab. in ramis decorticatis *Quercus pedunculatæ* in silvula Cervarese prope Padova Ital. bor.

VALSA Fr. — Sacc. Syll. I, p. 108.

- * 1. **Valsa Opulifoliæ** Peck 38 Rep. St. Mus. p. 103. — Stromatibus 6257
subconicis vel subhemisphæricis, erumpentibus; peritheciis 5-20 in
quoque stromate, in cortice interiore nidulantibus, stipatis, mutua
pressione sæpe angulatis; ostioliis stipatis, atris in disco griseo laten-
tibus; ascis subclavatis, pedicellatis, 30-40 \approx 6-8 p. sp.; sporidiis
allantoideis, sursum inordinatis, basi monostichis, 10-12 \approx 2-2,5.

Hab. in ramis emortuis Spirææ opulifoliæ, West Albany
Americæ borealis.

- * 2. **Valsa guarapiensis** Speg. Fung. Guar. Pug. I, n. 181. — Peri- 6258
theciis hinc inde monostiche aggregatis, in cortice nidulantibus epi-
dermidemque pustulatum minute 0,4-0,6 mm. diam. elevantibus
globulosis, membranaceis, contextu parenchymatico-elongato, dilu-
te olivaceo, ostioliis brevibus, carbonaceo-atris, convergentibus ac
disculum irregularem et vix exertum efformantibus ornatis; ascis fu-
soideis, parte sporifera, subfusoidea, 30-35 \approx 6, apice truncatis, basi
in stipitem mox fatiscentem, elongatum, 70-80 \approx 1-2, hyalinum pro-
ductis, octosporis; sporidiis distichis, botuliformibus, 5-6 \approx 1, utrin-
que 1-guttulatis, hyalinis.

Hab. ad ramos plantæ scandentis (Cissus?) cujusdam prope
Guarapi Bras.

- * 3. **Valsa morigena** B. et C. in Grevillea XIV, p. 46. — Peritheciis 6259
globosis, linea nigra circumscriptis stromateque pallido, corticali
immersis, demum crusta nigrificata tectis, ostioliis in discum minu-
tum, atrum, subconfluentibus, prominulis; ascis cylindraceo-clava-
tis; sporidiis allantoideis, hyalinis, 10 \approx 2.

Hab. in cortice Mori multicaulis in Carolina inferiore
Americæ borealis.

- * 4. **Valsa pusio** B. et C. in Grevillea XIV, p. 46. — Pustulis par- 6260
vulis, erumpentibus; peritheciis atris, subglobosis in cortice ni-
dulantibus, epidermide fissurato cinctis; ostioliis subrugosis, brevi-
bus, truncatis in disco orbiculari emergentibus; ascis clavatis sub-
sessilibus, octosporis; sporidiis allantoideis, hyalinis, subfuscidulis,
8 \approx 2.

Hab. in cortice Mori multicaulis in Carolina inferiore
Amer. bor.

- * 5. **Valsa cornina** Peck in 38 Rep. St. Mus. p. 102. — Stromatibus 6261
minutis, sparsis, primum epidermide tectis demum, eâ longitudi-
naliter ruptâ, nudis; peritheciis 2-5 in quoque stromate, in parte
interiore corticis nidulantibus, nigris; ostioliis vix exertis; ascis

clavatis sursum rotundatis, 50 \approx 10; sporidiis in asci parte superiore congestis, allantoideis, 15-17 \approx 4.

Hab. in ramis emortuis Corni paniculatæ, Albany in America boreali.

- *6. **Valsa fraxinina** Peck in Torr. bot. Club. 1884, pag. 28. — Pustulis parvis; peritheciis minutis, in quoque stromate 3, cortice interiore nidulantibus; ostioliis minutis, punctiformibus, nigris; ascis subclavatis, 50-60 \approx 8; sporidiis allantoideis, stipatis, 12-17 \approx 4-5, hyalinis.

Hab. in ramis emortuis Fraxini americanæ, Canada in America boreali (MACOUN).

- *7. **Valsa rubincola** (Schw.) Cooke in Grevillea XII, p. 38, *Sphæria rubincola* Schw. Syn. Amer. bor. n. 1331, et Sacc. Syll. II, p. 380. — Sporidia allantoidea, 9 \approx 2.

- *8. **Valsa modesta** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphæria modesta* Schw. Syn. Amer. bor. n. 1337, et Sacc. Syll. II, p. 381. — Sporidia allantoidea, 7,8 \approx 3,2.

- *9. **Valsa conspurcata** (Schw.) Cooke in Grevillea XIII, pag. 39, *Sphæria conspurcata* Schw. Syn. Amer. bor. n. 1336, et Sacc. Syll. II, p. 383. — Sporidia allantoidea, hyalina 6 \approx 2.

- *10. **Valsa expers** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphæria expers* Schw. Syn. Amer. bor. n. 1396 et Sacc. Syll. II, p. 387. — Sporidia allantoidea, 20 μ . longa.

- *11. **Valsa rimicola** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphæria rimicola* Schw. Syn. Amer. bor. n. 1397 et Sacc. Syll. II, p. 388. — Sporidia allantoidea, 6,5 μ . longa.

- *12. **Valsa pullula** B. et C. in Grevillea XIV, p. 47. — Pustulis parvulis, primo tectis (statu imperfecto in Herb. Berk.); ascis clavatis, octosporis; sporidiis cylindræis, utrinque rotundatis, leniter curvulis (sæpe rectis), hyalinis, 8 μ . longis.

Hab. in ramulis Castaneæ in Pennsylvania Amer. bor. (MICHENER).

- *13. **Valsa coryneoides** B. et C. in Grev. XIV, p. 47. — Pustulis minimis, primo tectis demum erumpentibus; peritheciis paucis, subglobosis, in disco fuligineo compactis; ascis clavatis; sporidiis allantoideis, hyalinis, 10-12 μ . longis.

Hab. in cortice Juniperi virginianæ, New Jersey in America boreali.

- *14. **Valsa lasiostoma** Ell. et Ev. in Torr. bot. Club. 1883, p. 89. — Peritheciis circinatis, 330-500 μ . diam., globosis, tuberculoso-

rugosis, superficie corticis, interioris insidentibus vel vix infossis, in colla, 100-150 μ . longa, cylindræa, tecta, epidermidem fasciatum perforantia discum non efficientia desinentibus; ascis 35-40 \approx 4-5 p. sporif.; sporidiis cylindræis, hyalinis, leniter curvulis, 5-6 \approx 1,5-2.

- *16. **Valsa Mulleriana** Cooke in Grevillea XIV, p. 46. — Pustulis 6266
convexis, erumpentibus, majusculis, suborbicularibus; peritheciis
atris, ovatis, sursum in colla levia productis, hinc illinc cum macrostylosporibus in eadem pustula immixtis; ascis clavatis, octosporis; sporidiis inordinatis, allantoideis, hyalinis 8 \approx 2, sæpe 1 μ . crassis; macrostylosporibus in eadem vel altera pustula, piriformibus, 2-3-septatis, longitudinaliter divisis, fuscis, 12-14 \approx 9.

Hab. in ramis Quercus, Eastbourne Britannicæ (MULLER).

- *17. **Valsa rhizina** (Schw.) Cooke in Grevillea XIII, p. 3, *Sphaeria* 4215
rhizina Schw. Syn. Amer. bor. n. 1398 et Sacc. Syll. II, p. 388.

— Sporidia allantoidea, 9 \approx 3.

- *18. **Valsa Radicum** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphaeria* 4182
Radicum Schw. Syn. Amer. bor. n. 1335 et Sacc. Syll. II, p. 380. — Sporidia allantoidea, 10 μ . longa.

- *19. **Valsa juglandicola** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphaeria* 4173
juglandicola Schw. Car. n. 102 et Sacc. Syll. II, p. 379. — Sporidia allantoidea, 6 \approx 2.

- *23. **Valsa variolaria** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphaeria* 4180
variolaria Schw. Syn. Amer. bor. n. 1371 et Sacc. Syll. II, p. 380. — Sporidia allantoidea, 7,8 \approx 3,2.

- *24. **Valsa prunicola** Peck in 33 Rep. St. Mus. 1883, p. 33. — Pustulis 6267
sparsis, leniter prominulis, epidermide perforantibus vel transverse erumpentibus; peritheciis 10-12 ligno immersis vel cortice interiore nidulantibus; ostioliis stipatis, vix exertis; ascis fusiformibus vel subcylindræis, rectis aut vix curvulis, quadrinucleatis, hyalinis, 12-15 \approx 4.

Hab. in ramis emortuis Pruni pensilvanicæ, Sandlake Amer. bor.

- *25. **Valsa agnostica** Cooke et Harkness in Grevillea XIII, p. 17. 6268
— Erumpens, subrotunda convexa; cæspitulibus in cortice nidulantibus, primo tectis, demum disco suborbiculari nudo; peritheciis 8-12, subglobosis, atris, in stromate pallido aggregatis; ostioliis brevibus rectis, obtuso-rotundatis, nitidis; ascis subclavatis, octosporis; sporidiis allantoideis, rectis vel curvulis, biserialibus, hyalinis, 6-7 \approx 1,5.

Hab. in ramis Ribis in California (HARKNESS).

- *26. **Valsa aractina** (Fr.) Cooke in Grevillea XIII, p. 39, *Sphæria* 4198
aractina Fries S. M. II, p. 391 et Sacc. Syll. II, p. 384. — Sporidia allantoidea, 10 μ . longa.
- *30. **Valsa deformis** (Fr.) Cooke in Grevillea XIII, p. 39, *Sphæria* 4201
deformis Fries. S. M. II, 398 et Sacc. Syll. II, p. 485. — Sporidia allantoidea, hyalina, 6-8 \approx 1,5.
- *37. **Valsa Sallei** (Berk.) Cooke in Grevillea XIII, p. 38, *Sphæria* 4177
Sallei Berk. En. Fungi St. Domingo, pag. 12, et Sacc. Syll. II, p. 379. — Sporidia allantoidea, hyalina, minuta.
- *40. **Valsa Cathartocarpi** (Lév.) Cooke in Grevillea XIII, pag. 38, 4178
Sphæria Cathartocarpi Lév. Ann. scienc. nat. 5, 1846, p. 450, et Sacc. Syll. II, p. 380. — Sporidia allantoidea, hyalina 10 \approx 3.
- *47. **Valsa minutella** Peck in Torr. bot. Club. 1884, pag. 27. — 6269
Pustulis minutis; peritheciis 6-20 in quaque pustula, cortice nidulantibus nigris; ostioliis in discum minutum, subferrugineum, epidermide rupta cinctum, erumpentibus, nigris; ascis brevibus, clavatis vel subfusiformibus, breviter pedicellatis, 22-30 \approx 5-6; sporidiis allantoideis, stipatis, 5-6 μ . longis.

Hab. in cortice Fagi ferrugineæ, Canada Americæ borealis (J. MACOUN). — Minuta, stromatibus parvis, disco subferrugineo mox dignoscenda.

- *48. **Valsa fagicola** Ell. et Ev. in Bull. Torr. bot. Club. 1883, p. 118. 6270
— Stromate e cortice parum mutata formato; peritheciis circinatis, 10-15, subglobosis, membranaceis, collapsis, 330 μ . diam., in collum cylindricum, gracile 330 μ . longum abrupte contractis; ostioliis convergentibus, epidermidem perforantibus, apice obtusis, late perforatis, in discum parvum papillæformem, nigrum collectis; ascis 18-20 \approx 3 p. sp., apice convexo, hyalino, mox evanido et tum truncatis; sporidiis distichis, cylindræis, hyalinis, curvis, 2,5-3,5 \approx 0,5-0,7.

Hab. in ramulis emortuis Fagi ferrugineæ, West Chester Americæ borealis.

- *58. **Valsa Lupini** Cooke et Harkn. in Grevillea XIV, p. 8. — Acer- 6271
vulis gregariis, erumpentibus; peritheciis 4-8, subglobosis, atris, in cæspitulos subconicos congestis, ostioliis convergentibus, minutis; ascis clavatis, deorsum longe attenuatis, octosporis; sporidiis allantoideis, subrectis, hyalinis, 7 \approx 2.

Hab. in caule Lupini in California (HARKNESS).

- *59. **Valsa conseptata** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphæ-* 4191

- ria conseptata* Schw. Syn. Amer. bor. n. 1374 et Sacc. Syll. II, p. 382. — Sporidia allantoides, hyalina, $8,3 \approx 3,2$.
- *61. **Valsa quadrifida** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphæria quadrifida* Schw. Syn. Amer. bor. n. 1378, et Sacc. Syll. II, pag. 381. — Sporidia allantoides, hyalina, $9 \approx 3,2$. 4183
- *82. **Valsa Lavateræ** Cooke et Harkn. in Grevillea XIV, pag. 8. 6272
— Acervulis gregariis, ligno nigricato immersis, epidermide tectis; peritheciis 3-6, subglobosis, atris; ostioliis elongatis, cylindraceis, tenuibus, emergentibus; ascis clavatis, octosporis; sporidiis allantoides, hyalinis, $8 \approx 2$.
Hab. in caulibus *Lavateræ* assurgentifoliæ in California (HARKNESS).
- *83. **Valsa indistincta** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphæria indistincta* Schw. Syn. Amer. bor. n. 1377, et Sacc. Syll. II, p. 382. — Sporidia reniformia, hyalina, $6 \approx 4,5$. 4187
- *84. **Valsa Menispermii** E. et Hol. in Journ. of Myc. I, p. 4. — Peritheciis circinatis stromate corticali, non linea circumscripto, 6-10 immersis, circiter $\frac{1}{4}$ mm. diam., contextu celluloso, membranaceo, ostioliis brevissimis atque in discum circulare, $\frac{1}{2}$ - $\frac{1}{3}$ mm. d., epidermide linea nigra, circulari signata tectum coalitis; ascis clavatis, $70 \approx 12$; sporidiis numerosis, cylindraceis, luteis, curvatis, $15-20 \approx 4-6$. 6273
Hab. in caulibus emortuis *Menispermii* canadensis in America septentrionali.
- *85. **Valsa subseriata** Cooke in Grevillea XIV, p. 47. — Pustulis 6274 convexis, erumpentibus, subdiscoideis, 3-4, vix ultra, longitudinaliter seriatis; peritheciis 10-16, subglobosis, sursum in ostioliis elongatis, levibus congestis; ascis clavatis, breviter stipitatis; sporidiis majusculis, allantoides, hyalinis, $30 \approx 6$.
Hab. in ramis *Fagi*, Shiere Britannicæ (D. CAPRON).
- *86. **Valsa aperta** (Fr.) Cooke in Grevillea XIII, p. 40, *Sphæria aperta* Fr. S. M. II, p. 407 et Schw. Syn. Amer. bor. n. 1381. — Circinata; peritheciis exiguis, cortice interiore immersis, subinde irregulariter aggregatis, superne crusta tegente junctis; ostioliis peritheciis duplo longioribus, erumpentibus, primo pro more convergentibus dein erectis, apice perforatis; ascis clavato-cylindraceis; sporidiis allantoides, hyalinis, $18 \approx 6$. 6275
Hab. in ramis *Populi* in Suecia et America bor.
- *87. **Valsa Ceanothi** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphæria* 4192

Ceanothi Schw. Syn. Amer. bor. n. 1376, et Sacc. Syll. II, p. 383.
— Sporidia allantoidea, 20 = 6.

- *107. **Valsa grisea** Peck in Torr. bot. Club. 1884, p. 28. — Stromatibus parvis; peritheciis 4-5 in quoque stromate, in cortice interiore nidulantibus, collis convergentibus atque discum orbicularem, minutum, erumpentem, griseum vel brunneum perforantibus; ostioliis punctiformibus, nigris; ascis clavatis, 50-60 μ . longis; sporidiis allantoideis, 10-12 μ . longis, hyalinis. 6276

Hab. in ramis emortuis Fraxini Americanæ et Aceris rubri, Canada Amer. bor. (MACOUN).

- *109. **Valsa leucostomoides** Peck 38 Rep. St. Mus. p. 103. — Stromatibus numerosis, minutis, epidermide, disco orbiculari, albo vel griseo perforata, tectis; peritheciis 2-6, vel magis, in quoque stromate; ostioliis punctiformibus, nigris; ascis clavatis vel subfusiformibus, 40-50 = 8,5-10; sporidiis stipatis, allantoideis, 12-15 = 4-5, hyalinis. 6277

Hab. in ramis emortuis Aceris saccharini in montibus Hedelberg Amer. bor. — *Valsæ leucostomati* affinis.

EUTYPELLA (Nits.) — Sacc. Syll. I, p. 147.

- *4. **Eutypella parvula** Sacc. Misc. Myc. I, n. 2198. — Stromatibus laxè parallele gregariis, elongato-lanceolatis, erumpentibus basi ligno infossis, convexiusculis, nigris, 1½ mm. long., ½ mm. crassis; ostioliis exiguis, vix extantibus, obtusis, angulosis; peritheciis globosis, atris, paucis, monostichis, extus albido-furfurellis; ascis clavatis, longe stipitatis, 110 = 10, p. sporif. 50-60 μ . longa, octosporis; sporidiis distichis, allantoideis, curvulis, 11-14 = 3, pallide olivaceis. 6278

Hab. in ramulis denique decorticatis Symphoricarpi racemosæ, Saintes (BRUNAUD). — Stromatibus lanceolatis, minutis imprimis dignoscenda species.

- *8. **Eutypella aleurina** (B. et Cooke) Berl. et Vogl. *Valsa aleurina* B. et C. in Grevillea XIV, p. 46. — Pustulis convexis, orbicularibus, dense gregariis, erumpentibus, epidermide circum ostiola stellatim fissa; peritheciis atris, in cortice nidulantibus, collis sulcatis, convergentibus; ascis clavatis, octosporis; sporidiis allantoideis, hyalinis, 8 μ . longis. 6279

Hab. in cortice Platani in Carolina inf. Amer. bor.

- *9. **Eutypella Mori** Schulz. et Sacc. in Rev. Myc. 1885, Schulz. Ill. Fung. Slav. n. 980. — Stromatibus laxè gregariis, innato-erumpenti- 6280

bus corticulis, verruciformibus, $\frac{1}{2}$ -2 mm. cr., atris, intus pallidis, linea nulla nigra infra limitatis; peritheciis stromate immersis, valsoideis, ovatis, collis convergentibus, in ostiola emergentia incrassatula, noduloso-rimosa desinentibus; ascis clavatis, stipitatis (spurie?) paraphysatis, octosporis; sporidiis distichis, allantoideis, hyalinis, 9-12 \approx 3.

Hab. in ramis corticatis Mori nigræ prope Vinkovce Slavoniæ. — Forte non specificè distinguenda a forma eutypellacea *Eutypæ ludibundæ*.

9. **Eutypella stellulata** (Fr.) Sacc. Syll. I, pag. 149. Var. **Ravenelii**, 571
Rehm. Ascomyc. fasc. XV, p. 10. — Stromatibus valseis, sub cortice nidulantibus, nulla linea nigra circumscriptis, intus albidis; peritheciis 12. monostichis; sporidiis ut in *E. stellulata*.

Hab. ad Moros in Hungaria. — Var. **Liquidambaris** Rehm. l. c. — Stromatibus linea nigra vix circumscriptis; sporidiis 9 \approx 3.

Hab. ad ramos Liquidambaris in Hungaria.

- * 10. **Eutypella Halseyana** (Schw.) Berl. et Vogl. *Sphæria Halseyana* 4188
Schw. Syn. Amer. bor. n. 1319 et Sacc. Syll. II, p. 382, *Valsa Halseyana* Cooke in Grevillea XIII, p. 39. — Sporidia allantoidea, 8 μ . longa.

- * 11. **Eutypella goniostroma** (Schw.) Berl. et Vogl. *Sphæria gonio-* 4189
stroma Schw. Syn. Amer. bor. n. 1373, et Sacc. Syll. II, p. 382, *Valsa goniostroma* Cooke in Grevillea XIII, p. 39. — Sporidia allantoidea, hyalina, 7 \approx 2.

- * 30. **Eutypella constellata** (B. et C.) Berl. et Vogl. *Valsa constel-* 6281
lata B. et C. in Grevillea XIV, p. 46. — Pustulis orbicularibus, in lineas vel inordinate dispositis, erumpentibus, dense gregariis; peritheciis atris, globosis, paucis, 4-6 congestis, collis abbreviatis, ostiolo sulcato; ascis clavatis, octosporis; sporidiis allantoideis, hyalinis.

Hab. in ramis Caryæ etc. in Carolina inf.

VALSELLA Fuck. — Sacc. Syll. I, p. 158.

- * 16. **Valsella Papyrifera** (Schw.) Berl. et Vogl. *Valsa papyrifera* 4184
Cooke in Grevillea XIII, p. 39, *Sphæria Papyrifera* Schw. Syn. Amer. bor. n. 1375, et Sacc. Syll. II, p. 381. — Sporidia numerosa, allantoidea, minuta.

CRYPTOSPHERIA Grev. — Sacc. Syll. I, p. 182.

- * 2. **Cryptosphæria Schulzeri** Sacc. in Rev. Myc. 1884, Schulz. Ill. 6282

Fung. Slav. n. 525 et 526. — Peritheciis densiuscule gregariis, cortice, subimmutato immersis, globosis, 400 μ . diam.; ostiolis conoideis non rimosis, breviter stipitatis, octosporis; sporidiis subdistichis, botuliformibus, 5 \approx 1,5-2, biguttulatis, hyalinis.

Hab. in cortice Ulmi suberosæ pr. Vinkovce Slavoniæ, sociâ formâ helminthosporioideâ; conidiis cylindræis, curvulis, denique 5-7-septatis, fuscis, 18 μ . longis.

- *14. **Cryptosphæria Crepiniana** Sacc. et Roum. in Rev. Myc. 1883, 6283
tab. 39, fig. 1. — Stromate late effuso, sed vix manifesto; peritheciis cortice immutato immersis, dense et æqualiter gregariis, globosis, minutis, vix $\frac{1}{2}$ mm. diam.; ostiolis perforantibus, vix extantibus, punctiformibus, levibus; ascis fusoideo-clavulatis, longe stipitatis, p. s. 30 \approx 6, octosporis; sporidiis allantoideis, 6-8 \approx 1, 4-1,5, hyalinis.

Hab. in cortice levi ramorum emortuorum Meliæ Azedarach cultæ Malmedy in Arduennis.

ENDOXYLA Fuck. — Sacc. Syll. I, p. 181.

- *3. **Endoxyla Populi** Romell in Hedwigia 1885, p. 263. — Peritheciis sparsis vel gregariis, ligno immutato vel dealbato omnino immersis; ostiolis emergentibus, levibus, minutis, atris, convexis, (non pezizoideo-collapsis), pertusis; ascis cylindræis, stipitatis, 8-sporis, paraphysatis, 100-140 \approx 5-10; sporidiis submonostichis, (interdum distichis), allantoideis, curvulis, olivaceo-fuscis, 13-18 \approx 3-4- $\frac{1}{2}$. 6284

Hab. in ligno decorticato ramulorum emortuorum Populi Tremulæ prope Upsala in Suecia (L. ROMELL). — Ligni superficies primo levis et subimmutata, nisi circa ostiola indeterminate nigrefacta, deinde in fungo perfecto vel obsoleto, supra perithecia pustulato-elevata et nigrefacta.

EUTYPA Tul. — Sacc. Syll. I, p. 162.

- *8. **Eutypa confusa** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphæria confusa* Schw. Syn. Amer. bor. n. 1306 et Sacc. Syll. II, p. 378. — Ostiola rugosa; sporidia allantoidea. 4171
- *9. **Eutypa allostoma** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphæria allostoma* Schw. Syn. Amer. bor. n. 1332 et Sacc. Syll. II, p. 384. — Sporidia allantoidea, 9 \approx 3. 4196
- *10. **Eutypa mela** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphæria mela* Schw. Syn. Amer. bor. n. 1308 et Sacc. Syll. II, p. 377. — Non distincta ab *E. maura* videtur. 4167

- *20. **Eutypa oppansa** (Fr.) Cooke in Grevillea XIII, p. 38, *Sphæria* 4160
oppansa Fr. S. M. II, 374 et Sacc. Syll. II, pag. 376. — Sporidia
allantoidea, circiter 10 μ . longa.
- *23. **Eutypa Mori-rubræ** (Schw.) Cooke in Grev. XIII, p. 33, *Sphæria* 4166
Mori-rubræ Schw. Syn. Amer. bor. n. 1302 et Sacc. Syll. II, p. 375.
— Sporidia cylindracea, vix curvula, pallide fusca, 8 μ . longa.
- *36. **Eutypa ludens** Speg. Fung. Guar. Pug. I, n. 180. — Stromate plus 6285
minusve late effuso e cortice v. ligno nigrefacto efformato; peri-
theciis plus minusve dense constipatis, laxe v. dense bullatim erum-
pentibus, globulosis, submembranaceis, contextu subindistincte pa-
renchymatico, olivascente, ostiolo breviusculo, atro, carbonaceo,
obscure cruciato-rugoso, stromatis superficiem vix attingente do-
natis; ascis clavatis, parte sporifera subfusioidea, 30-40 \approx 4-5, apice
truncato-rotundatis, deorsum attenuatis et in stipitem gracilem
30-50 \approx 1-2, hyalinum productis, aparaphysatis, octosporis; spori-
diis allantoideis, 7-8 \approx 1,5, utrinque 1-guttulatis, dilute chlorinis.
Hab. ad ramos ac truncos emortuos putrescentes pr. Guarapí Bras.
- *40. **Eutypa elevans** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphæ-* 4169
ria elevans Schw. Syn. Amer. bor. n. 1303 et Sacc. Syll. II,
p. 376. — Sporidia allantoidea, 8 μ . longa.
- *44. **Eutypa polyscia** (Berk. et Broom.) Berl. et Vogl. *Sphæria* 6286
polyscia Berk. et Broome IV, List. Fung. Brisb. Queensland. n. 266,
tab. XV. fig. 19-21. — Stromate aterrimo, punctulato; peritheciis
immersis, apice impressis; ascis clavatis, basi leniter attenuatis,
86 μ . longis, octosporis; sporidiis distichis, guttulatis, allantoideis,
majusculis, 22 μ . longis.
Hab. in epicarpio Cucurbitæ lagenariæ, Brisbane.

DIATRYPE Fr. — Sacc. Syll. I, p. 191.

- *1. **Diatrype roseola** Winter Fung. Missouri. in Journ. of Myc. 1885, 6287-
p. 121. — Stromatibus sparsis v. subgregariis disciformibus, orbic-
ularibus vel parum irregularibus, non raro confluentibus, planis
vel parum convexis, erumpentibus, lateribus a peridermii fissi laci-
niis erectis cinctis, 1,5-2,5 mm. latis, superne sordide pallidissime-
que roseis, demum nigricantibus, rimulosis, intus albidis; perithe-
ciis in singulo stromate 12-30, dense stipatis, ellipticis, ostiolis sub-
longis, tenuibus, obtusissimis, vix vel non prominulis, radiatim 4-
5-sulcatis præditis; ascis anguste oblongis, longissime pedicellatis,
8-sporis, 50-60 \approx 7 (parte sporif.); sporidiis conglobatis, cylindra-
ceis, parum curvatis, fuscis, 12-14 \approx 2,5-3.

- Hab.* ad ramos aridos *Quercus tinctoriæ*. — Ascis sporidiisque majoribus a *Diatrype disciformi*, ostiolis minoribus, non v. vix prominulis, sporidiis crassioribus, a *D. asterostoma* valde diversa.
- *2. **Diatrype friabilis** (Pers.) Cooke in Grevillea XIII, p. 38, *Sphæ-* 4150
ria friabilis Person. Syn. 24. Fr. S. M. II, 361 et Sacc. Syll. II, p. 373. — Sporidia allantoidea, 10 μ . longa.
- *3. **Diatrype variolosa** (Schw.) Cooke in Grevillea XIII, pag. 38, 4153
Sphæria variolosa Schw. Syn. Amer. bor. 1272 et Sacc. Syll. II, p. 374. — Sporidia allantoidea, 7-8 μ . longa.
- *4. **Diatrype sambucivora** (Schw.) Cooke in Grevillea XIII, p. 38, 4154
Sphæria sambucivora Schw. Syn. Amer. bor. n. 1275 et Sacc. Syll. II, p. 374. — Sporidia allantoidea, 8 μ . longa.
- *5. **Diatrype concolor** (Schw.) Cooke in Grevillea XIII, p. 37, *Sphæ-* 4142
ria concolor Schw. Syn. Amer. bor. n. 1254 et Sacc. Syll. II, p. 374. — Sporidia allantoidea, 7,5-8 μ . longa.
- *6. **Diatrype euphorea** (Fr.) Cooke in Grevillea XIII, p. 37, *Sphæ-* 4131
ria euphorea Fr. S. M. II, p. 353 et Sacc. Syll. II, p. 368. — Sporidia allantoidea, 10 μ . longa.
- *7. **Diatrype virescens** (Schw.) Cooke in Grevillea XIII, pag. 37, 4134
Sphæria virescens Schw. Syn. Amer. bor. n. 1239 et Sacc. Syll. II, p. 369. — Sporidia allantoidea, pallide fusca, 8 μ . longa.
- *8. **Diatrype collecta** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphæ-* 4156
ria collecta Schw. Syn. Amer. bor. n. 1271 et Sacc. Syll. II, p. 374. — Sporidia.... Adsunt tantum sporulæ minutæ.
- *10. **Diatrype Brassicæ** Cooke in Grevillea XIII, p. 100. — Stro- 6288
mate expanso, atro, indeterminato, saepe 50-75 mm. lato, linea nigra, atra circumscripto; peritheciis globosis, plerumque sparsis, stromate immersis, sæpius 6-8-aggregatis, stroma in discum convexum elevantibus; ostiolis obtusis, fere obsoletis vel elongatis et flexuosis, 1-2 mm. longis; ascis stipitatis, clavatis, 22 \approx 6, in parte superiore, octosporis; sporidiis minutis, allantoideis, hyalinis, 6 \approx 1,5.
Hab. in caule putri Brassicæ, Kew Britannicæ.
- *12. **Diatrype subaffixa** (Schw.) Cooke in Grevillea XII, p. 5, *Sphæ-* 1545
ria subaffixa Schw. Syn. Amer. bor. n. 1226, *Nummularia subaffixa* Sacc. Syll. I, p. 401. — Sporidia allantoidea, hyalina, 8 μ . longa. — Peraffinis *D. Stigmati*.
- *13. **Diatrype Rhois** (Schw.) Cooke in Grevillea XIII, p. 37, *Sphæ-* 6289
ria Rhois Schw. Car. n. 62, et Sacc. Syll. II, p. 369. — Sporidia allantoidea, 7,5 \approx 8 μ . longa.
- *14. **Diatrype Ceanothi** Cooke et Harkness in Grevillea XIII, p. 17. 6290
— Acervulis verrucæformibus, innato-erumpentibus, atris, rotun-

dati, peridermio arcte cinctis, intus concoloribus; peritheciis compressis difformibusque, ostioliis brevibus, stellato-sulcatis; ascis clavatis, octosporis; sporidiis cylindraceis, curvulis, utrinque rotundatis, luteolis, hyalinis, 12-14 = 2.

Hab. in ramis *Ceanothi* in California (HARKNESS).

- * 17. **Diatrype megastoma** Ell. et Ev. in Journ. of Myc. 1885, p. 141. — 6291

Stromatibus orbicularibus, corticalibus, 2-3 mm. lat. linea nigra, in lignum penetrante circumscriptis, subinde confluentibus v. subconfluentibus, in 5-10 series dispositis, rima longitudinali epidermidem rumpentibus; peritheciis 15-20 in quoque stromate, orbicularibus, vel ovatis, contextu denso, atro, membranaceo, sursum in collum subtile desinentibus; ostioliis latis, prominulis, 4-5-stellato-sulcatis; ascis gracilibus, clavatis, 75-80 = 6-7, p. sp. 35-40; paraphysibus copiosis primum distinctis,asco longioribus, demum obsoletis; sporidiis cylindraceis, luteolis, arcte curvatis, sæpius utrinque uninucleatis, sursum subdistichis, 5-6 = 2.

Hab. in truncis emortuis *Alni serrulatae*, Newfield Amer. bor. — Adest intermixta *Libertellæ* sp. sporulis filiformibus, curvatis, 20-25 = 1, verisimiliter status spermogonicus.

- * 27. **Diatrype minima** Ell. et Ev. in Journ. of Myc. 1885, p. 91. — 6292

Stromatibus corticalibus, ex cortice parum mutato efformatis, 1-2 mm. diam. linea nigra in lignum penetrante circumscriptis; peritheciis 8-12 in quoque stromate, globosis, 1,6-1,5 mm. diam., membranaceis, ostioliis nigris, nitentibus, demum distincte perforatis; ascis cylindraceis, 78-80 = 2-1/3-3, obscure (vel non?) paraphysatis; sporidiis monostichis, oblongo-ellipticis, 2-nucleatis, luteolis vel fere hyalinis, 5-7 = 2.

Hab. in ramis *Magnoliæ glaucæ*, Newfield Amer. bor.

- * 29. **Diatrype sordida** (Pers.) Cooke in Grevillea XIII, p. 38, *Sphæria* 4145

sordida Pers. Syn. 25 et Sacc. Syll. II, p. 373. — Sporidia allantoidea, 12 μ . longa.

- * 30. **Diatrype annulans** (Schw.) Cooke in Grevillea XIII, pag. 38, 4157

Sphæria annulans Schw. Syn. Amer. bor. n. 1270 et Sacc. Syll. II, p. 375. — Sporidia allantoidea, 8 μ . longa.

- * 33. **Diatrype albo-pruinosa** (Schw.) Cooke in Grevillea XIII, p. 37, 4143

Sphæria albo-pruinosa Schw. Syn. Amer. bor. n. 1238 et Sacc. Syll. II, p. 371. — Sporidia allantoidea, pallide fusca, 20-22 = 4.

- * 34. **Diatrype Berberidis** Cooke in Grevillea XIV, p. 14. — Stro- 6293

matibus verrucæformibus, innato-erumpentibus, oblongis vel confluentibus, scabris, atris, ligno affixis; peritheciis minimis, nume-

rosis; ascis clavato-stipitatis, octosporis; sporidiis allantoideis in parte sporifera stipatis, hyalinis, $14 \approx 2$.

Hab. in ramis Berberidis vulgaris, Near Bristol (C. BUCKNALL).

37. **Diatrype smilacicola** (Schw.) Berk. North Amer. fungi p. 165, 6294
 Confr. Cooke in Grevillea XIII, p. 37, *Sphæria smilacicola* Schw. in Fr. Elench. Fung. II, p. 71, *Sphæria smilacicola* Schw. Syn. Amer. bor. n. 1251 et Sacc. Syll. I, p. 370, n. 4137. — Sporidia allantoidea, 12-14 μ . longa.

DIATRYPEOPSIS Speg. Fungi Guar. pug. I, pag. 186 (Etym. a *Diatrype*). — Stroma a matricis substantia heterogeneum, erumpenti-superficiale, effusum. Perithecia stromate immersa, ostiolis rectis; Asci octospori. Sporidia cylindraceo-elliptica, utrinque truncato-subrotundata, hyalina.

Obs. Genus pulchellum stromatis ac perithecorum habitu generi *Hypoxyton* et generi *Diatrype* accedens; sporidiis tamen ab utroque satis distinctum.

1. **Diatrypeopsis laccata** Speg. Fung. Pug. I, n. 186. — Stromatibus ligno subinnatis, primo tectis dein, ob corticem secedentem, nudis, irregulariter elliptico-elongatis, 5-10 μ m. long. 1-2 mm. lat. 0,5-1 mm. crass., glabris, levissimis (vix sub lente valida dense minutissimeque punctulatis) atris, sublaccato-nitentibus; peritheciis dense constipatis, rectis, ellipticis v. obovatis, sæpe e mutua pressione angulosis, 250-300 μ . alt. 100-150 μ . diam., atris, coriacellis, ostiolo minuto, recto non v. vix stroma perforante donatis; ascis cylindraceis, 70-75 \approx 4, apice obtusissime rotundatis, basi modice attenuato-stipitatis, octosporis aparaphysatis; sporidiis recte monostichis, cylindraceis v. cylindraceo-subellipticis, utrinque truncatis v. vix rotundatulis, 6-7,5 \approx 3-4,5, grosse 2-guttulatis, hyalinis. 6295

Hab. ad truncos emortuos putrescentes in silvis subvirgineis prope Guarapi Bras. — Species prædistincta; an huc *Hypoxyton stygium* ducendum.

DIATRYPELLA Ces. et De Not. — Sacc. Syll. I, p. 200.

- * 1. **Diatrypella Populi** E. et Hol. in Journ. of Myc. 1885, pag. 4. — 6296
 Peritheciis cartilagineis, ovoideis vel mutua pressione subangularibus, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam. in stromate orbiculari, 2-3 mm. diam., extus brunneo-nigro, intus sordide albo, cortice interiore immerso nidulantibus; ostiolis brevibus, crassis, obscure 4-sulcatis, in disco ob-

scure nigro coalitis vel separate epidermidem perforantibus; ascis longis, clavatis, 100-115 \approx 15; sporidiis cylindræis, luteolis, curvis 10-12 \approx 1,5 \approx 2.

Hab. in ramis emortuis Populi in Amer. bor.

Sect. 2. Phæosporæ Sacc.

CERATOSTOMA Fr. — Sacc. Syll. I, p. 215.

10. **Ceratostoma caulincolum** Fuck. — Sacc. Syll. I, p. 317, Winter ¹⁾ 780
in Hedwigia 1886, p. 101. — Perithecia demum sæpe emersa, tenuissime membranacea, 180-210 μ . diam., rostro sæpe curvato prædita; sporidia conglobata, cuboidea h. e. late ellipsoidea, utrinque truncata, longitudinaliter striata, 7-8 \approx 5-6.

*10. **Ceratostoma melanosporioides** Winter in Hedwigia 1886, p. 101, 6297
C. caulincolum forma *Echii* Winter. — Peritheciis immersis, plurumque gregariis, depresso-subglobosis, membranaceis, fuscidulis 180-210 μ . diam., rostro longissimo, sæpe curvato, fusco, apice albo-fimbriato emersis; ascis ovatis vel piriformibus, breviter stipitatis, 8-sporis, 23-26 \approx 10-11; sporidiis subellipsoideis, utrinque rotundatis, pallide fuscis, 6 \approx 4.

Hab. in caulibus emortuis *Echii*, Leipzig Saxonix.

*22. **Ceratostoma ?? foliicolum** Fuck. in Die zweite deutsch. Nordpolarf. 6298
p. 94, t. 1, fig. 7. — Peritheciis *Gnomoniarum* habitu, sparsis, primo tectis, ostiolo longissimo, aterrimo exserto, demum subliberis, globosis, minutis, atris; ascis nondum visis; sporidiis perfecte globosis, nucleatis, episorio levi, luteolo, 8 μ . diam.

Hab. in pagina inferiore foliorum aridorum Salicis arcticæ Sabine Insel Grœnlandix.

MICROASCUS Zukal Ein nev. Pilze Myx. Bakt. pag. 9, fig. 3 (Etym. *micro* parvus et *ascus*). — Perithecia subcarbonacea, rostrata (setulosa, fimicola). Asci globulosi, subgelatosi, octospori in quoque sporophoro septato plures, pleurogeni. Sporidia lunulata, fusca (muco obvoluta). Genus *Ceratostomati* affine, a quo distinguitur sporophoris septatis, irregularibus, ascos globosos, gelatinoso-tunicatos subsessiliter pleurogenos gerentibus.

1. **Microascus longirostris** Zukal Ein nev. Pilze Bakt. Myx. pag. 9, 6299
tab. XV, fig. 3. — Peritheciis globulosis, nigris, carbonaceis, sparsis vel gregariis, 400 μ . altis, matrice subimmersis, ostiolo cyli-

1) Emendationes quædam ad diagnoses Sylloges a cl. Winter in Hedwigia 1885-86 datæ, tam parvi momenti sunt ut potius ætati vel constitutioni individui tribuendæ sint; quare hic consulto omittuntur.

draceo, pilis rigidis, cuspidatis obsito, 150-200 \approx 18-24; ascis globosis subgelatinosis, 30-36 μ . diam., aparaphysatis, octosporis, in sporophoris septatis, irregularibus, pleurogeno-subsessilibus; sporidiis crasse lunulatis, utrinque acutis, strato mucoso angusto obvolutis, 4-5 \approx 2-3, levibus, brunneis.

Hab. in stercore canino, socio *Exoasco Reesii*, Wien Austriae.

CHÆTOMIUM Kunze. — Sacc Syll. I, p. 220.

9. **Chætomium Fieberi** Corda. — Sacc. Syll. I, p. 223, ***C. Saccardia-** 801
num Bomm. et Rouss. in litt. Sacc. in Misc. Myc. I, pag. 17. — Peritheciis minutis, $\frac{1}{8}$ mm. diam., mox collabascendo cupulatis; setulis filiformibus, fuliginis, 150 \approx 200 \approx 3, modice flexuosis, sursum denticulato-conidiophoris, conidia sphærica, hyalina dein fuscidula, distincte muriculata, 8-9 μ . diam. gerentibus; sporidiis limoniiformibus, 9 \approx 7, fuliginis.

Hab. in charta putrescente. — Conidia modo descripta ab auctoribus nullis describuntur: an ergo species distinguenda?

*9. **Chætomium velutinum** E. et E. in Journ. of Myc. 1885. — Pe- 6300
ritheciis ovatis, membranaceis, gregariis, non vel vix confluentibus, subiculo velutino, denso immersis, setis olivaceo-nigris, apice rectis, basi subtilioribus, ramosis præditis; sporidiis amygdaloideis, brunneis, 11-12 \approx 6-7.

Hab. in ligno Aceris udo in Amer. bor. (CARPENTER).

*12. **Chætomium cymatotrichum** Cooke in Grevillea XII, p. 21. — 6301
Gregarium; peritheciis depresso globosis, 200 μ . d., ubique lanosis, olivaceo-fuliginis, ostiolo atro; pilis tenuibus, simplicibus, glabris, intertextis, numerosissimis, gyroso-flexuosis, fuscis; ascis piriformibus; sporidiis globosis ovatisve, leniter utrinque apiculatis vel obtuse rotundatis, fuliginis, 10 \approx 8.

Hab. in foliis Solani Dallachii, Johnstone River, N. Queensland Australiæ (BERTHARD).

BOMMERELLA Marchal in Bull. Soc. Royal Bot. Belg. 1885, p. 1 (Etym. a dom. Bommer, peritissima mycologa Bruxellensi). — Perithecia superficialia, sparsa, ostiolata, contextu parenchymatico fuligineo, setis vestita. Asci octospori, pedicellati, aparaphysati. Sporidia eximie triangularia, depressa. — Partibus externis similis est *Chætomio* a quo sporarum forma mox dignoscitur. Sistit etiam status conidiophorus *Oosporam* exhibens.

1. **Bommerella trigonospora** March. in Bull. Soc. Royal Bot. Belg. 6302
1885, p. 1. — Peritheciis e filamentis conidiophoris oriundis, primum

globosis dein ovoideis vel ellipsoideis, brevissime ostiolatis, 200-350 μ . \approx 150-200 μ . undique setosis; setis fuliginis, sæpius rectis, remote septatis, initio asperulis dein levibus, terminalibus longioribus et densioribus, 300-430 μ . \approx 4,4-5 μ .; ascis numerosis clavatis, apice acutiusculis, breviter stipitatis, aparaphysatis, 50-70 μ . \approx 7,5-9 μ .; sporis subdistichis, plane triangularibus, biconvexis, 7,6-9 μ . diam. et 4-4,3 μ . crassis, primitus 1-3-guttulatis et hyalinis tandem fuliginis.

Hab. supra fimum leporinum in ericetis prope Ærschot Belgii. — Status conidicus: **Oospora trigonospora** March. in Rev. Myc. 1886, pag. 101. Cæspitulis tenuibus, late effusis, albis; hyphis repentibus intricatis, vage ramosis, filiformibus, initio continuis dein remote septatis, 1,5-2,5 mm. altis, 2-3,2 μ . crassis; conidiis copiosissimis, nonnullis secus hypharum partes inferiores sessilibus v. breviter pedicellatis, plerisque in catenulas elongatas, flexuosas adscendentesque digestis, globosis, hyalinis, 7,3-9 μ . diam. — Cum statu ascophoro ibidem.

SORDARIA Ces. et De Not. — Sacc. Syll. I, p. 230.

*20. **Sordaria sparganicola** Phill. et Plowr. in Grevillea XIII, p. 76. 6303

— Peritheciis atris, globosis, superficialibus, setis atris, intricatis tectis; ostioliis prominentibus, rotundatis; sporidiis ellipticis, obscure brunneis, utrinque truncatis et appendicula hyalina, cylindrica ornatis, 12 \approx 8.

Hab. in emortuo Spargano, Vattan Britannicæ (BUCKNALL).

HYPOCOPRA Fuck. — Sacc. Syll. I, p. 240.

*3. **Hypocopra Saccardo** March. Fungi Coproph. pag. 23, tab. III, 6304

f. 7-9. — Perithecia subgregaria, semiimmersa, atra, 240-280 μ . alta, globosa, cum ostiolo conico brevi, crasso, setulis nigrofuscis, rigidis, 20-25 μ . \approx 2-3 instructo, deorsum villo fusco obsita; ascis cylindraceuti, breviter stipitati, apice rotundati, 8-spori, 120-160 μ . \approx 8,8-10 μ ., aparaphysati; sporidia oblique monosticha, ellipsoidea, initio flavida, translucida, dein fuliginea, strato muco hyalino fluxili obvoluta, 17-17,5 μ . \approx 7,5-8. μ .

Hab. in fimo cuculorum prope Neufchâteau Belgii. — Species eximio mycologo P. A. Saccardo merito dicata.

COPROLEPA Fuck. — Sacc. Syll. I, p. 248.

*3. **Coprolepa Kickxii** March. Bull. Soc. Roy. Bot. Belg. 1885, p. 1. — 6305

Peritheciis aggregatis, sæpe omnino stromate crustaceo, late effuso, extus nigro, villosa, pilis septatis, 150-250 \approx 3-4,5, brunneo-fuliginosis vestito, immersis, globosis, ostiolo papillæformi, nigro, matricis superficiem vulgo vix superante; ascis cylindraceis, stipitatis, 8-sporis, 145-180 \approx 13-17, paraphysibus linearibus, remote septulatis, 5 μ . crassis, insigniter guttulatis obvallatis; sporidiis oblique monostichis, ovoideis, primum sordide luteolis dein fuscis, opacis, 13-14,5 \approx 6,7-7, strato hyalino, lato obvolutis.

Hab. supra finum leporinum in abietis circa pagum Beggenndijck in Belgio. — *C. equorum*, cui affinis, paraphysibus atque exiguitate sporidiorum distincta.

MÜLLERELLA Hepp. in Müller, Principes de Classif. des Lichens, in Mémoires de la Société de Phys. et d'Hist. nat. de Genève t. XVI, II.^{eme} partie et Wint. in Hedw. 1886, pag. 18 (Etym. a cl. botanico MÜLLER). — Perithecia plus minusve immersa, globosa, atra, poro pertusa. Asci polyspori. Sporidia unicellularia, fusca. Paraphyses indistinctæ.

1. **Müllerella polyspora** Hepp. in Müller Principes de Classification 6306
des Lichens, in Mémoires de la Société de Phys. et Hist. nat. de Genève t. XVI, II.^{eme} partie et Wint. in Hedw. 1886, pag. 18. — Peritheciis minutissimis, globosis, primo fere omnino immersis, demum plus minusve prominulis, vertice pertuso, $\frac{1}{6}$ - $\frac{1}{8}$ mm. latis, sparsis vel 2-3 aggregatis; ascis oblongo-vel cylindraceo-obovatis, membrana tenui præditi, 50-60 μ . longis, 150-sporis; paraphysibus mucosis; sporidiis oblongo-ellipticis, guttulis 2 oleosis, fuscis, 5-7 \approx 2 $\frac{1}{2}$ -3,5.

Hab. in thallo Biatoræ luteolæ in Germania.

HAPLOSPORIUM Mont. Ann. 2, XX, p. 372 et Fl. Alg. I, 543, cum icone (Etym. ab *Haplos* et *spora*). — Perithecium innato-erumpens, integrum, ovato-conoideum, apice poro pertusum, atrum, nitidum. Nucleus gelatinoso-filamentosus, ascis monosporis mature solutis et evanidis paraphysibusque continuis hyalinis intricatis farctus. Spora magna, globosa, rugosa, tandem nigra, opaca, episporio celluloso, subfoveolato, fragili nucleoque granuloso insignis.

1. **Haplosporium Bulborum** Dur. et M. Syll. Crypt. n. 956, l. l. c. c., 6307
t. 25, f. 2. — Characteres iidem ac generis; ascis clavato subpiriformibus, 100-120 \approx 20-30; sporidiis globosis, 50 μ . d. (generis).

Hab. in tunicis exterioribus bulborum Scillæ peruvianæ cica Oran Africæ borealis (DURIEU).

ROSELLINIA (Fr.) De Not. — Sacc. Syll. I, p. 252.

1. **Rosellinia aquila** (Fr.) Ces. et De Not. Sacc. Syll. I, p. 252, Winter in Hedwigia 1885, p. 100. — Var. **glabra**: ascorum parte sporif. 140-165 \approx 7; sporidia 19-23 \approx 6. — Var. **byssiseda**: subiculo pulvinato, parum effuso, ex hyphis ramosissimis, dense intricatis contexto; peritheciis globosis, papillâ minutâ præditis, opacis, atris, confertissime greges parvos formantibus.

* 2. **Rosellinia Macouniana** Ell. et Ev. in Torr. bot. Club. 1884, p. 74. — Gregaria, superficialis; peritheciis ovatis, 330 μ . diam., tomento purpureo, brevi, tenui undique (excepto ostiolo prominulo) tectis; ascis acutis, 100 et ultra μ . longis; sporidiis monostichis, 19-22 \approx 6, binucleatis, brunneis, oblongis vel subnavicularibus.

Hab. in ligno putri, Ottawa, Canada Amer. bor. (MACOUN).

* 3. **Rosellinia quercina** Hart. Lebr. Baumkrank. p. 100, t. VIII, IX. — Peritheciis sparsis vel subgregariis, subiculo filamentoso *Rhizoctoniae* insidentibus, atris, majusculis, globosis, obtuse papillatis, circ. 1 mm. diam., levibus; ascis cylindræcis vel subclavatis, basi sensim attenuatis, longe stipitatis apice foveolatis, 160-170 \approx 8-10, octosporis; sporidiis oblique monostichis vel sursum distichis aut fere tristichis, fusoideis, guttatis, utrinque acutis, 28 \approx 6-7, fuscis.

Hab. in radicibus juvenilibus *Quercus Rhizoctoniae* affectis, Berlin Germaniæ.

4. **Rosellinia Pardalios** (Berk. et Curt.) Cooke in Grevillea XIII, p. 37, *Sphæria Pardalios* B. et C. in Pac. expl. p. 128, n. 157, et Sacc. Syll. II, p. 367. — Sporidia elliptica, brunnea, μ . longa.

* 25. **Rosellinia callimorpha** Karst. in Hedw. 1884, n. 6, p. 1. Rev. atque Synop. Ascom. fenn. p. 75. — Peritheciis conglomeratis vel confluentibus, superficialibus, sphæroideis, ostiolo papillæformi, levibus, glaberrimis, tenuibus, non collabentibus, fragilibus, opacis, fusco-atris, 5-8 mm. lat.; ascis 80 (pas. sporif.) \approx 6; sporidiis monostichis, oblongatis, vulgo inæquilateralibus, eguttulatis, utrinque obtusiusculis, muticis, dilute fulvis, 9-11 \approx 3-4.

Hab. in ligno vetusto *Alni incanæ* prope Mustiala.

34. **Rosellinia obliquata** (Somm.) Sacc. Syll. I, pag. 260, Winter in Hedwigia 1885, p. 100. — Perithecia gregaria, plerumque conferta, globosa vel late conoidea, sæpe in ostiolum attenuata, rarius ostiolo distincto, papillæformi prædita, interdum demum collapsa atra, glabra, levia, nitida, sæpe oblique insidentia, 0,3-0,4 mm,

diam.; asci cylindracei, deorsum longe attenuati, apice truncati incrassatique, 8-spori, 130-140 \approx 8; sporidia monosticha, late ellipsoidea, compressa, fusco-atra, 10-12 \approx 7; paraphyses filiformes, diffluentes.

- * 36. **Rosellinia Molleriana** Wint. Cont. Flor. myc. Lus. Ser. VI, p. 10, 6311
 — Peritheciis superficialibus, sparsis seu 3-6 (rarius plur.) densissime aggregatis, sæpe confluentibus seu concretescentibus, globosis vel irregularibus, rugoso-subtuberculosis, atris, opacis, glabris, non raro in collum conicum seu subcylindricum attenuatis, 1-1 $\frac{1}{4}$ mm. lat.; ascis elongato-subclavatis, in stipitem longum attenuatis, sursum parum angustatis, apice rotundatis, non incrassatis, 8-sporis, 140-150 \approx 16; sporidiis inordinatis seu oblique monostichis, in asci parte media subdistichis, oblongis, utrinque parum attenuatis, inæquilateralibus, fusco-nigris, guttula magna præditis, muticis, 19-21 \approx 7.

Hab. in cortice vetusto Lauri nobilis circ. S. Bento prope Coimbra in Lusitania (MOLLER).

53. **Rosellinia pulveracea** (Ehrh.) Fuck. — Sacc. Syll. I, p. 264, var. 968
platysporella Speg. Fung. Guar. Pug. I, n. 187. — Peritheciis densissime confertis, plagas atras granulosas, subcrustaceas, latissime matricem obtegentes efficientibus, globosis, minutis, 120-180 μ . diam., nigris glabris, dense granuloso-rugosis, coriaceis subcarbonaceis, opacis, ostiolo impresso, pertuso donatis; ascis cylindraceis, apice truncatis, basi modice attenuato-stipitatis, 65-70 \approx 8, octosporis, paraphysibus crassiusculis, septulatis, raris obvallatis; sporidiis oblique vel recte monostichis e fronte ellipsoideo-sphæroideis, 8-10 \approx 7-8,5 e latere compressis, 2-3 μ . crassis, primo olivaceis, dein opace fuligineis.

Hab. ad lignum denudatum truncorum Citri Aurantii pr. Guarapí Bras.

- * 56. **Rosellinia rugulosa** Schulz. et Sacc. in Rev. Myc. Schulz. III, 6312
 Fung. Slav. n. 259. — Peritheciis gregariis v. subsparis, superficialibus, globoso-conicis obtusiusculis, minutissime rugulosis, atris, $\frac{1}{9}$ - $\frac{1}{7}$ mill. diam.; ascis cylindricis paraphysatis, subsessilibus, octosporis; sporidiis oblique monostichis, ellipsoideis utrinque rotundatis, 10 \approx 6, 1-4, guttatis, fuligineis.

Hab. in cortice emortuo Piri Mali prope Vinkovce Slavoniæ.

— Affinis *Roselliniæ rimincolæ*.

- * 76. **Rosellinia horridula** Sacc. in Barbey Fl. Sard. Comp. p. 248. 6313
 — Peritheciis gregariis e basi insculpta superficialibus, globoso-

conicis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., atris carbonaceis, setulis longis, atris parce vestitis; ostiolo papillato sæpe longiusculo; ascis teretibus, deorsum attenuato-stipitatis, 140-150 \approx 15-20, paraphysatis, 8-sporis; sporidiis oblique monostichis ellipsoideo-subrhombeis, 25-30 \approx 12-14, 1-guttatis, fuliginosis.

Hab. in trunco decorticato Opuntiae prope Torralba Sard. (MARCUCCI).

79. **Rosellinia sordaria** (Fr.) Rehm. — Sacc. Syll. I, p. 270, Winter 994
in Hedwigia 1885, p. 100. — Perithecia glabra.

* 89. **Rosellinia rhynchospora** Harkn. New Calif. Fungi p. 21. — Pe- 6314
ritheciis globoso-conoideis, dense aggregatis, superficialibus, areas latas tegentibus, sursum setis nigris, brevibus, omnino tectis; ascis octosporis, cylindræis, 96 \approx 10, paraphysibus filiformibus obvallatis; sporidiis oblique monostichis, continuis, ovoideis vel ellipsoideis, obscure brunneis, utrinque appendicula curvula, $\frac{1}{3}$ - $\frac{1}{2}$ longitudinem sporidii æquante, 15-18 \approx 9.

Hab. in ramis decorticatis Sambuci glaucae, Blue Canon Californiæ.

86. **Rosellinia subcorticalis** Fuck. Sacc. Syll. I, p. 272, Winter in 1001
Hedwigia 1885, p. 100. — Sporidia elliptica, 9-12 \approx 7-8.

* 98. **Rosellinia spinosa** Harkn. New Calif. Fungi p. 22. — Peri- 6315
theciis superficialibus, gregariis, globosis, 300 μ . diam., setis numerosis, flaveolis, sæpe ramosis, 200-300 \approx 18-22, tectis; ascis 8-sporis, cylindræis, breviter stipitatis, 50 \approx 12; paraphysibus filiformibus; sporidiis ovato-ellipticis, bicellularibus, loculo superiore $\frac{2}{3}$ - $\frac{3}{4}$ sporidii longitudinem æquante, olivaceo-brunneo, crasse 1-nucleato, loculo inferiore (vel appendicula) conoideo, hyalino, 9 \approx 4.

Hab. in corticibus putridis Eucalypti, S. Francisco Californiæ.

* 99. **Rosellinia? arctica** Fuck. in Die zweite deutsch. nordpolar. p. 6316
95, tab. I, fig. 10 sub *Rhizomorpha*. — Stromate adnato, crustoso vel tenuissime effuso, fusco; peritheciis gregariis, sæpe confluentibus, raro sparsis, semi vel totis liberis, carbonaceis atterrimis, $\frac{1}{2}$ mm. diam.; subrugulosis, globosis sed antice late conicis, ostiolo brevi, cylindræo, truncato, perforato; sporidiis (endosporis?) fusiformibus seu subovatis, plerumque inæquilateralibus, guttulatis, fuscis, 12-14 \approx 6-8.

Hab. in radicibus putridis Salicis arcticæ, Kaiser-Franz-Josephs-Fjord, Grœnlandiæ.

* 100. **Rosellinia ipalustris** Schröter Über ein. von R. Fritze Mad. und 6317
Ten. ges. Pilze p. 4. — Peritheciis gregariis, globulosis, carbona-

ceis, fragilibus, circiter 0,5 mm. diam., ostiolo conoideo, minuto apice pertuso, basi tomento myceliali, nigro cinctis et undique setis brunneo-nigris, rigidis, 50-60 \approx 5-7, subulatis vestitis; ascis cylindraceis, longe pedicellatis, 260-300 \approx 10-11 p. sp., apice truncatis, octosporis; sporidiis oblique monostichis, ellipsoideo-fusifformibus, inæquilateralibus, 27-35 \approx 10-12, brunneo-nigris.

Hab. in algis gelatinosis limo tectis in insula Madeira.

ANTHOSTOMELLA Sacc. — Syll. I, p. 278.

- *8. **Anthostomella palmicola** (Auersw.) Rabel. Fungi eur. n. 2522 6318
in Barbey Fl. Sard. Comp. p. 205. — Peritheciis globosis, minutissimis, hypophlæoideis, sparsis, membranaceis, e cellulis minutis contextis, (astomis); ascis creberrimis, cylindricis, 8-sporis, paraphysibus filiformibus, mucosis obvallatis; sporidiis uniserialibus, ovalibus, integris, fuscis, maturis impellucidis.

Hab. in foliis Chamæropis humilis pr. Alyhero Sardinia.

- *10. **Anthostomella paraguayensis** Speg. Fungi Guar. Pug. I, n. 188. 6319
— Peritheciis matrice pallide nigrescente insidentibus, primo tectis, dein erumpenti-semiimmersis, densiuscule gregariis, sæpius subseriatim dispositis, e globoso-conoideis, parvulis, 150-200 μ . diam., atris, levibus, glabris, coriaceo-membranaceis, contextu atro, subopaco, dense minuteque parenchymatico-rimoso, ostiolo papillulato, per ætatem deciduo, sæpe subhysteriatim dehiscente coronatis; ascis cylindraceis, apice truncatis vel obtuse rotundatis, basi modice attenuato-stipitatis, 60-75 \approx 4-6, octosporis, aparamphysatis; sporidiis recte vel oblique monostichis e fronte ellipsoideis, rarius subinæquilateralibus, 10 \approx 5, e latere compressis, 2,5 \approx 3, utrinque rotundatis, non vel 1-2-crasse guttulatis, obscure fuliginis.

Hab. ad culmos dejectos Sacchari officinarum in cultis prope Guarapí Bras.

- *25. **Anthostomella pholidigena** (Ell.) Berl. et Vogl. *Sphæria pholidigena* Ell. in Torr. bot. Club. 1883, p. 54. — Peritheciis subcuticularibus, erumpentibus, hemisphæricis, rugosis, 330-500 μ . diam.; ostiolis vix prominulis, poro amplo pertusis; ascis cylindraceis, 114 \approx 7, paraphysibus copiosis obvallatis; sporidiis monostichis, acutis, ellipsoideis, continuis, brunneis, 7-10 \approx 5-6. 6320

Hab. in strobilis Pini in America boreali.

- *27. **Anthostomella Oreodaphnes** (Cooke et Harkn.) Berl. et Vogl. 6321
Sphæria oreodaphnes Cooke et Harkn. in Grevillea XIII, p. 18.
— Sparsa, innata epidermide, tecta; peritheciis globosis, epider-

mide tumidula et leniter nigrificata velatis, vix papillatis; ascis cylindraceis, octosporis; sporidiis arcte ellipticis, utrinque rotundatis, fuscis, 14-15 \approx 4.

Hab. in foliis Umbellulariæ in California (HARKNESS).

- *28. **Anthostomella ostiolata** Ell. et Ev. in Torr. bot. Club. 1884, 6322 p. 42. — Peritheciis solitariis vel 2-4 aggregatis, 0,33-0,5 mm. diam. in cortice interiore, immutata fere penitus immersis, sursum prominentibus, epidermide nigrefacta tectis et ostiolo brevi, obtuso perforata; ascis cylindraceis, 80-85 \approx 7-8, paraphysibus linearibus obvallatis; sporidiis oblique monostichis, oblongo-ellipsoideis, brunneis, 1-2 nucleatis, 10-13 \approx 4-5.

Hab. in ramulis emortuis Lauri, Benzoin Amer. bor. — Affinis *A. limitata* et *A. intermedia*

- *29. **Anthostomella phormicola** (Cooke) Berl. et Vogl. *Sphæria phormicola* Cooke in Grevillea XII, p. 85. — Sparsa, tecta; peritheciis globosis, atris, sub cuticula dealbata nidulantibus, ostiolo impresso; ascis cylindraceis; sporidiis ovalibus, continuis, atro-fuscis, 90-100 \approx 7.

Hab. in florum pedunculis Phormii, New Zealand (KIRK).

- *30. **Anthostomella africana** (Kalchbr. et Cooke) B. et V. *Sphæria africana* Kalch. et Cooke in Grevillea. — Sparsa, caulicola, erumpens; peritheciis subglobosis, atris, nitidis, pertusis, semiemersis; ascis cylindraceis; sporidiis uniseriatis, amygdalæformibus, atro-fuscis, opacis, 22-32 \approx 12-15.

Hab. in caulibus herbaceis in Africa australi.

- *31. **Anthostomella brachystoma** Ell. et Ev. in Bull. Wash. Lab. Nat. Hist. 1884, p. 5. — Peritheciis globosis, $\frac{1}{3}$ mm. diam., ligno immersis in ostiolum crassum, breve, obtusum, late perforatum desinentibus; ascis non visis; sporidiis oblongo-ellipsoideis vel subnavicularibus, brunneis, dein opacis, 22-25 \approx 11-12.

Hab. in ligno putri Tsugæ Pattonianæ in Monte Paddo Americæ borealis.

- *32. **Anthostomella? Rhizomorphæ** (Kunze) Berl. et Vogl. *Sphæria Rhizomorphæ* Curr. On the fructific. Sph. n. 370, tab. LIX, fig. 139. — «Peritheciis.....»; ascis amplis, saccatis sursum rotundatis, basi in pedicellum brevem attenuatis, 138 \approx 46, octosporis; sporidis stipatis, brunneis vel dein obscuris, sed non opacis, 30-40 μ . longis.

Hab. in foliis..... verisimiliter in Britannia.

ANTHOSTOMA Nits. — Sacc Syll. I, p, 293.

- * 1. **Anthostoma atro-fuscum** (Berk. et Curt.) Berl. et Vogl. *Fuckelia* 6327
atro-fusca Berk. et Curt. in Herb. Berk. 9004 et Cooke in Grevillea XII, p. 51. — Erumpens, pustulis minimis, vix $\frac{1}{2}$ mm. diam., ellipticis, cortice marginatis; peritheciis inæqualiter in stromate atro, depresso congestis; ascis cylindricis, stipitatis; sporidiis ellipticis, fuscis, 13 \approx 7.

Hab. in cortice Rhois glabræ in montanis Virginia Americæ borealis.

1. **Anthostoma melanotes** (B. et Br.) Sacc. Syll. I, p. 294 ***A. longiascum** 1097
 Berl. Fungi Moric. fasc. II, t. 3, f. 1-7. — Stromate crustaceo, effuso, ligno parum prominenti vel ejus superficiem nigrificante ac maculas elongatas aut subrotundas, sæpe confluentes, fuscescentes vel tandem nigricantes, opacas efficiente, postremo intus quoque nigrolimitato; peritheciis majusculis, depresso globosis, omnino in subiculo furfuraceo, flavido immersis, laxe sparsis, ostiolo exerto, minutissimo, integro, conico vel hemisphærico, nitidulo, tandem perforato instructis; ascis cylindricis, longissime pedicellatis, 190-200 \approx 6-7 et parte sporifera 70-75 \approx 6-7, apice 1-2-foveolatis, paraphysibus filiformibus, simplicibus obvallatis, tunica crassiuscula præditis, octosporis; sporidiis oblique monostichis, obtuse fusiformibus vel ovoideis, rectis vel rarius nonnihil inæquilateralibus, 10-12 \approx 5, fuligineis, sæpe biguttulatis.

Hab. in ligno decorticato et indurato Mori albæ, Fiumicello Ital. bor.

- * 6. **Anthostoma amplisporum** (Cooke) Berl. et Vogl. *Fuckelia amplispora* 6328
 Cooke in Grevillea XII, p. 51. — Stromate diatrypoideo, pustulato, peridermio primo tecto, demum stellato-fissurato, prominulo, 1-2 mm. diam.; peritheciis paucis, in singulo stromate, 4-6, monostichis, majusculis globosis, tenuibus; ascis cylindricis, breviter stipitatis; sporidiis uniserialibus, ellipticis, utrinque obtusis, fuscis, 16 \approx 10.

Hab. in corticibus verisimiliter Quercus in America boreali.

- * 10. **Anthostoma chionostomum** Speg. Fung. Guar. Pug. I, n. 189. 6329
 — Stromate longe lateque effuso, cortice non vel vix mutato innato parumque manifesto, intus atro; peritheciis hinc inde subseriatim aggregatis, epidermide tectis, stromate immersis, e conoideo-globosis, 750-900 μ . diam., coriaceo-membranaceis, contextu inconspicuo, atro, opaco, ostiolo crassiusculo, brevi, recto, subterete, matricis stromatisque superficiem attingente, non vel vix

exerto ac corticem subpustulatim elevante, disculum parvulum, centro pertusum, niveum exerente; ascis cylindræis, antice obtuse rotundatis atque crassissime tunicatis perforatisque, postice breviter attenuato-pedicellatis, 150-180 \approx 15-20, paraphysisibus crassiusculis, guttulatis, raris, obvallatis, octosporis; sporidiis oblique monostichis, ellipticis, 26-34 \approx 12-20, utrinque rotundatis, rectis vel inæquilateralibus, plus minusve intense ac subopace fuliginæis.

Hab. ad corticem putrescentem arborum in silvis subvirginæis prope Guarapî Bras. — Species pulcherrima, corticem ostiolis candidis perforantibus, mox dignoscenda!

- * 13. **Anthostoma stomaticum** (Cooke) Berl. et Vogl. Cooke *Botryo-* 6330
sphæria stomatica Cooke in Grevillea XIII, pag. 102, *Sphæria stomatica* Schwein. in Herb. Berk. — Latissime effusa, emergens, lignum atro inquinans; peritheciis semiimmersis, majusculis, ostiolis validis, prominentibus, cylindræis, obtusis, insignibus; ascis clavatis, octosporis; sporidiis ellipticis, continuis, fuscis, 12-13 \approx 5.

Hab. in ligno putri, Indiana Amer. bor. (SCHWEINIZ).

- * 22. **Anthostoma? gigasporum** (Cooke et Hark.) Berl. et Vogl. *Sphæ-* 6331
ria gigaspora Cooke et Hark. in Grevillea XIII, p. 18. — Sparsum, subimmersum, tuberculis orbicularibus, elevatis tectis e substantia matricis efformatis; peritheciis globosis, magnis, 1½-2 mm. diam., ostiolo obtuso, nigro præditis; ascis amplis, saccatis, octosporis; sporidiis elongato-ellipticis, utrinque leniter attenuatis, continuis, 65-80 \approx 25-30, atro-fuscis.

Hab. in sarmentis decorticatis in California (HARKNESS). — Habitu *Anth. cubiculari* affine.

23. **Anthostoma Carteri** (Berk. et Cooke) Berl. et Vogl. *Fuckelia* 6332
Carteri Berk. and Cooke in Grevillea XII, p. 51. — Erumpens, hemisphæricum, demum liberum, atrum, compositum, ½-1 mm. d., stromate corticali primitus fusco, velato; peritheciis tenuibus, membranæis, subglobosis, immersis, vix papillatis; ascis cylindræis, substipitatis; sporidiis ovalibus, atro-fuscis, 12 \approx 9.

Hab. in corticibus, Bombay in India (D. CARTER).

32. **Anthostoma insidens** (Schw.) Berl. et Vogl. *Fuckelia insidens* 2341
Cooke in Grevillea XII, pag. 52, *Sphæria insidens* Schw. in Fr. S. Myc. II, 422, *Mirmæcium? insidens* Sacc. Syll. I, p. 601. — Effusum; stroma subrotundum, innatum, fusco-nigrum; perithecia emergentia, conferta, ovata, flexuosa (nec carbonacea), subpapillata; asci cylindrici; sporidia uniseriaria, elliptica, pallide fusca, 8 \approx 4.

Hab. in ramis in America boreali. — Teste Fuckel, in exemplaribus Schweinitzianis, sporidia elliptica, continua, pallide fusca.

33. **Anthostoma gastrinum** (Fr.) Sacc. Syll. I, p. 303. Huc spectat 1129
teste Cooke (Grevillea XII, p. 49) *Sphæria irregularis* Fr. Syst. Myc. II, p. 361, Soverby t. 374, fig. 9, et Sacc. Syll. II, p. 372.

XYLARIA Hill. — Sacc. Syll. I, p. 309.

1. **Xylaria polymorpha** (Pers.) Grev. *var. fastigiata* Speg. Fungi Guar. 1150
Pug. I, n. 210. — Stromatibus basi longe repenti-rhizomorphoideis, simplicibus, tectis, dein erumpenti-exertis, erectis, brevibus, glabris, fusco-atris, abrupte 8-20 fasciculato-ramosis, ramis subteretibus, 5-10 cm. long., 2-4 mm. crass., apice obtusis, extus nigris, albo-pruinulosis, intus albis. Specimina nondum matura, iterum inquirenda.

Hab. ad radices truncorum putrescentium in silvis prope Guarapí Bras.

- * 1. **Xylaria Mascarensis** Cooke in Grevillea XIII, p. 9. — Suberosa 6333
clavæformis, simplex; clavula falcata, æquali, 17 cm. alta, 4 cm. lata, sicco-rugulosa, rubro-fusca, deorsum in stipitem æqualem, 7 cm. longum producta; peritheciis atris, globosis, subprominulis, ostiolo atro, punctiformi instructis; contextu albo; ascis immaturis.

Hab. in lignis, Central Madagascar (REV. R. BARON).

- * 2. **Xylaria herculea** (Miquel) Cooke in Grevillea XIII, p. 9; *Sphæ-* 4527
ria (Cordyceps) *herculea* Miquel Exot. fung. pag. 197, *Sphæria herculea* Sacc. Syll. II, pag. 442. — Receptaculo coriaceo-corneo, intus albido, extrorsum nigrescente ac carbonaceo-crustaceo, brevissime stipitato, oblongo vel subclavato, obtusissimo vel subattenuato, ostiolis subprominulis nigro-punctato, ceterum griseo fuscidule obducto; ascis angustis, basi attenuatis, obscuris paraphysibus intermixtis; sporidiis simplicibus, ellipticis, obtusis.

Hab. in trunco denudato Artocarpi incisæ, Paramaribo.

30. **Xylaria biceps** Speg. — Sacc. Syll. I, p. 315 *var. microsperma* 1170
Speg. Fungi Guar. Pug. I. n. 212. — A typo vix differt sporidiis conspicue minoribus, 8-9 = 3-3,5, opace fuliginis.

Hab. ad truncos dejectos putrescentes in silvis prope Guarapí Bras.

- * 36. **Xylaria Thwaitesii** Berk. et Cooke in Grevillea XII, pag. 1. — 6334
Suberosa, cylindrica, rigida, fragilis, obtusa, demum cava, 2,5-5 cm. alta, 0,6 cm. crassa; stipite brevi vel obsolete, subcrasso, glabro; peritheciis carbonaceis, subglobosis, mediis ostiolis haud pa-

pillatis; ascis cylindricis; sporidiis fusiformibus rectis curvulisve, fuscis, 15-18 \approx 5.

Hab. in lignis in insula Ceylon. — Affinis *X. fistulosa*, sed sporidiis latoribus, stromatibus externe levibus.

- * 44. **Xylaria cynoglossa** Cooke in Grevillea XII, p. 1. — Umbrina, 6335 linguæformis, 12-15 cm. longa, 3 cm. lata, brevissime stipitata, carne alba; peritheciis congestis, cylindræis, atris, ostioliis leniter papillatis, atris; ascis cylindræis; sporidiis arcte fusiformibus, rectis curvulisve, fuscis, 16-18 \approx 4.

Hab. in ligno, Tweed River in Britannia «(?)» (R. FITZGERALD).

- * 134. **Xylaria Fockei** (Miquel) Cooke in Grevillea XIII, p. 8, *Sphæ-* 4516
ria (Cordyceps) *Fockei* Miquel Fungi Exot. pag. 138, *Sphæria Fockei* Sacc. Syll. II, pag. 442. — Stipite cylindrico, nigro receptaculum ellipsoideum v. obovoideum, obtusum superante, intus omnino coriaceo-corneo vel carbonaceo, nigrescente, crustula gilvo-albida partim obducto interque ostiola atra, punctiformia, tenera, subradiatim nigro-punctulato; sporidiis naviculari-ellipticis, acutis, simplicibus.

Hab. in truncis, Surinam.

USTULINA Tul. — Sacc. Syll. I, p. 350.

- * 1. **Ustilina tessulata** (Berk.) Cooke in Grevillea XII, p. 3, *Hypo-* 6336
xylon tessulatum Berk. in Herbario. — Stromate superficiali, pulvinato-lobato, uundulato, maximo, crasso, tessulato-ruguloso, atrofulgineo, intus demum excavato; peritheciis compressis, stipatis, monostichis, periphericis; ostioliis punctiformibus; ascis cylindræis; sporidiis lanceolatis, magnis, fuscis, 40-50 \approx 8-9.

Hab. in ligno, Bombay in India.

- * 2. **Ustilina microspora** Speg. Fungi Guar. Pug. I, n. 191. — Stro- 6337
matibus erumpenti-superficialibus, repando-pulvinatis, minutis, 5-6 mm. diam. 1-2 mm. crass., determinatis, margine tumidulo, rotundato, sæpe confluentibus, subcolliculosis, carbonaceis, glabris, atris, opacis, basi coarctatis, applanato-adnatis, intus (deorsum præcipue) albis; peritheciis stromate immersis, globoso-ellipticis, 750-900 μ . altis, 550-750 μ . diam. coriaceo-membranaceis, atris, opacis, ostiolo minuto, superficiem stromatis attingente ac non vel vix prominulo donatis; ascis cylindræo-clavatis, sursum non vel vix rotundatis, p. sp. 80-110 \approx 8-14, deorsum plus minusve attenuato-pedicellatis, octosporis; paraphysibus deorsis, gracillimis obvallatis; sporidiis monostichis vel distichis, elongato-ellipticis, 20-25 \approx 7-8, utrinque acu-

tato-rotundatis vel subapiculato-limoniformibus, inæquilateralibus, subopace fuligineis.

Hab. ad corticem putrescentem truncorum in silvis pr. Guarapi Bras. — Species ludens inter genera *Hypoxylon* et *Ustulina*, sed secundum specimina observata, melius sub postremo militare videtur.

HYPOXYLON Bull. — Sacc. Syll. I, p. 353.

1. **Hypoxylon coccineum** Bull. — Sacc. Syll. I, pag. 353, *var. microcarpum* Bizz. Fung. Ven. novi v. crit. pag. 2. — Typo habitu subsimile; ascis cylindricis, longissime pedicellatis, p. sp. 40-46 μ . longa; sporidiis oblique monostichis, oblongis, inæquilateralibus, 7-7,5 \approx 3,5-4. 1333

Hab. in trunco emortuo decorticato Ulmi campestris in calidario Horti botanici patavini. — Status conidicus *Isaria umbrina*.

- * 1. **Hypoxylon nectrioides** Speg. Fungi Guar. Pug. I, n. 196. — Stromatibus tuberculoso-pulvinatis, pulvinulis irregularibus, sparsis v. line inde aggregato-confluentibus, 3-5 mm. lat., 0,5-1 mm. crass., margine determinatis atque subcoarctatulis, primo rubris dein rubiginosis, pruinuloso-furfuraceis v. squarrulosis; peritheciis in pulvinulis, ad medium fere usque prominulis, globulosis, extus rubiginoso-squarrulosis, hyphis repentibus, septulatis, 3-3,5 μ . crass. ornatis, intus carbonaceis, atris, ostiolo mammillato, apice discoideo-applanato, 150 μ . diam. ac medio poro, 50-70 μ . diam. pertuso donatis; ascis mox diffluentibus, paraphysibus densis, obvallatis; sporidiis ellipsoideo-navicularibus, utrinque obtusiusculis, 12-15 \approx 7, opacè fuligineis. 6338

Hab. ad corticem putrescentem arborum frondosarum in silvis prope Guarapi Bras. — Species pulchella, externa facie formæ depauperatæ ac senescenti *Nectria cinnabarinæ* simillima.

- * 4. **Hypoxylon dubiosum** Speg. Fungi Guar. Pug. I, n. 200. — Stromatibus majusculis, 5-10 mm. diam., solitariis v. aggregatis sæpeque confluentibus, hemisphærico-pulvinatis, 5-6 mm. crass., ambitu rotundato-coarctatulis, non v. vix repandulis, obsoletissime ruguloso-papillois, primo sordide griseo-fuscis (pruina detersili obductis) deiu (nudis) atris, intus fusco-griseis v. plumbeo-atris, radiatim fibrosis, non v. vix sericeo-nitentibus; peritheciis periphericis, monostichis, dense constipatis ellipticis v. subobovatis, e mutua pressione sæpe angulosis, 700-800 \approx 400-450, coriacellis, in stroma- 6339

tis superficie non v. vix prominulis sed obsolete discoideo-applanatis, ostiolo vix lente valida perspicuo, non exertulo ac saepe hysterioideo ornatis; ascis mox diffluentibus, non visis; sporidiis ellipticis v. navicularibus, utrinque obtuse acutatis, 12-14 \approx 6-6,5, opace fuliginis.

Hab. ad corticem duriorem arborum dejectarum, putrescentium in uliginosis nemorosis prope Guarapí Bras. — Species pulchra *H. hypomillo* affinis; cum *H. solido* certe cognata, sed descriptione nimis imperfecta.

- * 5. **Hypoxylon polyporoideum** Berk. in Herb. Cooke in Grevillea XII, 6340 p. 53. — Pulvinatum, convexo-applanatum, ochraceum, demum rufescens 1-2 cm. latum; peritheciis minimis, numerosis, congestis, papillatis; ascis cylindraceutis; sporidiis ellipticis, fuscis, 12-14 \approx 6.

Hab. in corticibus et lignis, River Binne, Tschaddi in Africa.

- * 33. **Hypoxylon subvinosum** Speg. Fung. Guar. Pug. I, n. 192. — 6341
Stromatibus latissime irregulariterque subpulvinato-effusis, 2-3 cm. subtenuibus, 0,5 mm. crassis, matrici arcte adnatis, margine sterili nullo, plus minusve undulato-tuberculosis vel scruposis, hinc inde rimulosis, densissime granulato-mammillosis, extus tenuissime pruinuloso-velutinis, griseo-subvinosis vel fusco-violascentibus, intus primo coffeicoloribus, dein fusco-atris; peritheciis monostichis, perdense constipatis, globosis, 300-400 μ . diam., e mutua pressione non vel vix angulosis, ad tertium superum tantum prominulis ac hemisphaericis, centro minute abrupteque papillulato-ostiolatis, carbonaceis; ascis cylindraceutis, longe stipitatis, p. sp. 70-80 \approx 6-6,5, ped. 40-50, apice subtruncato-rotundatis, octosporis, paraphysibus subfluxilibus, vix longioribus, dense obvallatis; sporidiis recte vel oblique monostichis, elliptico-navicularibus, utrinque acutiuscule rotundatis, 10-11 \approx 5-6, non vel crasse 1-guttulatis, opace fuliginis.

Hab. ad corticem putrescentem arborum in silvis prope Guarapí Bras. — Species *H. vinoso* affinis, sed intus non luteo-cerina, nec margine sterili donata.

- * 34. **Hypoxylon plumbeum** Speg. Fungi Guar. Pug. I, n. 193. — 6342
Stromatibus matrice pulverulento-nigra facta insidentibus, discoideo-repandis ac convexo-pulvinatis, 3-6 mm. diam., 1-2 mm. crassis, margine determinatis, non vel vix coarctatis, sparsis vel subaggregatis saepeque confluentibus, dense mammillosis, fere rubiformibus, extus primo pruinula subcrustacea, non deteribili, plumbeo-vel argenteo-grisea vestitis, dein nudis, atris, intus fusco-rubiginosis

vel fusco-atris; peritheciis 10-50 aggregatis, ad tertium superum tantum prominulo-hemisphæricis, levissimis, ostiolo minutissimo, imperspicuo, non papillato donatis; ascis cylindraceutis, modicæ stipitatis, 100-110 \approx 6-6,5, apice subtruncato-rotundatis, octosporis, paraphysibus densis, filiformibus obvallatis; sporidiis recte vel oblique monostichis, ellipticis vel elliptico-navicularibus, utrinque acutato-obtusatis, 10-12 \approx 5-6, 1-2-guttulatis, opace fuliginis.

Hab. ad ligna cariosa putrescentia in nemorosis prope Guarapi Bras. — Species *H. subvinoso* affinis sed peritheciis majoribus distinctissima.

- * 36. **Hypoxylon subnigricans** Speg. Fungi Guar. Pug. I, n. 201. — 6343
Stromate ligno denudato nigrificatoque late ambiente, 5-15 cent. d., appanato-pulvinato, 0,5-1 mm. crass., ambitu repando-subdeterminato, non effuso, non vel leniter undulato, dense regulariterque granulato-mammilloso, primo pulvere fusca vestito, dein nudo, atro sæpeque subnitente; peritheciis e globoso-ellipsoideis, 300-350 μ . diam., densissime constipatis, parce prominulis, ostiolo minutissimo, umbonato-papillulato donatis, carbonaceis, atris; ascis et paraphysibus mox fluxilibus; sporidiis elliptico-navicularibus, utrinque acutato-rotundatis, 10-11 \approx 4-4,5, opace fuliginis.

Hab. ad ramos decorticatos putrescentes arborum in dumetis prope Guarapi Bras.

89. **Hypoxylon turbinatum** Berk. — Sacc. Syll. I, p. 372, *var. guaraniticum* Speg. Fungi Guar. Pug. I, n. 206. — 1422
Stromatibus obconicis, solitariis v. dense gregariis, rarissime confluentibus, superne appanato-truncatis, 7-8 mm. alt. 9-16 mm. d. sup., margine recto, prominulo, obtuso, disco convexulo, centro plano v. depressulo, glabris, atris, opacis, levibus v. minutissime (vix sub lente valida) rugulosis v. sparse papillulosis; cortice crassiuscula, 0,2-0,4 mm. crass., dura, corneo-carbonacea, in fracturis resinose nitente, diu persistente, vix centro disci apicalis per ætatem oblitterata ac evanescente, a substantia interna stromatis distinctissima; substantia interna totum corticis stromatis cavum implectente, homogœna, fusco-atra v. coffeicolori, obsolete fibrosula, in fracturis sericeo-nitente; peritheciis sub disco supero in cavitate lenticulari dense aggregatis, verticalibus cylindraceuto-ellipticis, 1-2 mm. long., 0,3-0,4 mm. diam., membranaceo-coriacellis, per ætatem fragilibus ac friabilibus, ostiolo minuto (vix evoluto) disci stromatis superficiem vix attingente imperspicuoque donatis; ascis obovato-clavatis, p. sp. 32-40 \approx 12-15, longissime pedicellatis, sed facile deciduis, paraphysibus densissimis

guttulatis v. septulatis, granulosis, obscure chlorinis, 2-3,5 μ . crass., obvallatis, 8-sporis; sporidiis distichis v. polystichis, inordinatis, ellipticis, utrinque obtusissime rotundatis, 10-12 \approx 5-6, e latere non compressis rectis, intense ex olivaceo chlorinis.

Hab. ad truncos vetustos emortuos Citri aurantii in silvis prope Guarapi Bras. — Species pulcherrima a genere certe satis desciscens ac facile in novum genus erigenda inter *Hypoxylum* et *Camilleam*.

- * 100. **Hypoxylon guarapiense** Speg. Fung. Guar. Pug. I, n. 199. — 6344
Stromate majusculo 10-25 cent., primo epidermide tecto, dein ea secedente nudo, matrici arcte adnato, effuso, ambitu indeterminato, sterili, gradatim centrum versus subpulvinate, 1-1.5 mm. crass., leniter undulato, non v. obsoletissime granuloso, primo furfureo-griseo, dein rufescente, postremo sordide fusco-rubiginoso; peritheciis monostichis, obovato-globosis, substantia atra stromatis immersis, coriaceis, 300-350 μ . diam., fuscis; ascis cylindræis, antice rotundato-truncatis, postice attenuato-pedicellatis, p. sp. 60-65 \approx 6,5-7, ped. 25-30, 8-sporis, paraphysibus filiformibus, densis, obvallatis; sporidiis oblique v. recte monostichis, elliptico-navicularibus, utrinque acutato-rotundatis, 10 \approx 5, e latere (præcipue ad medium) compressis, 3 μ . crass., primo crasse 2-guttulatis dein opace fuliginis.

Hab. ad ramos dejectos putrescentes Citri aurantii in nemorosis prope Guarapi Bras. — Species pulchella sed externa facie sæpe ludibunda, *H. atro-purpureo* ut videtur, satis affinis.

- * 101. **Hypoxylon albo-stigmatosum** Speg. Fungi Guar. Pug. I, n. 197. 6345
— Stromate late effuso, 5-25 cm. longo, 0,5-1 mm. crasso, crustaceo, duro, superne applanato, plus minusve scruposo-undulato, margine non sterili, repando-sinuoso, sordide rubiginoso vel fusco-ferugineo, non v. obsoletissime granuloso, laxè papilloso-stigmatoso, stigmatibus (ostiolis perithecorum) griseis v. albis, furfurellis, intus atro; peritheciis non vel vix prominulis, densissime constipatis, monostichis, ellipticis, 300-350 μ . diam., coriaceis, atris, ostiolo minuto, vix perspicuo, stroma perforante ac vix exerto, apice umbilicato-perforato, albo notato donatis; ascis cito diffluentibus, paraphysibus filiformibus, mucosis, densis obvallatis; sporidiis ellipticis, sæpius inæquilateralibus, utrinque obtuse acutatis, 9-10 \approx 3,5-4, 1-guttulatis, opace fuliginis.

Hab. ad ligna cariosa putrescentia in umbrosis uliginosis prope Guarapi Bras.

- * 113. **Hypoxylon Caaguazu** Speg. Fungi Guar. Pug. I, n. 205. — Stro- 6346
matibus matrice denudata ac nigrificata insidentibus, latiuscule ef-
fuso-pulvinatis, 5-10 cm. diam., 1-1,2 mm. crass., ambitu repandulis,
quandoque rotundatis quandoque effusis, superficie scrupuloso-undulatis ac per ætatem sæpius dense minutissimeque diffracto-rimulosis, confertissime papilluloso-asperis, fusco-atris, opacis, glabris; peritheciis globulosis, minutis, 200-250 μ . diam., densissime stipatis, conoideo-prominulis ostioloque parvulo coronatis, atris, carbonaceis, strato stromatico tenui, fusco-fibrosulo insidentibus; ascis et paraphysibus mox fatiscentibus; sporidiis oblique monostichis, navicularibus, utrinque acutato-rotundatis, 9-11 \approx 4-5, opace fuligineis.

Hab. ad ligna putrida in umbris prope Paraguari Bras. — Species pulchella ac satis distincta, in iuventute plurimis characteribus *H. fusco-purpureo* ac *H. vinoso* ut videtur affinis.

- * 117. **Hypoxylon subeffusum** Speg. Fungi Guar. Pug. I, n. 204. — 6347
Stromate erumpente, matrice nigrificata insidente, late ambiente, 15-20 cm. long., 0,5-1 mm. crass., elongato-repandulo, modice pulvinato-undulato, margine acutato-diffuso, dense majusculeque granuloso, atro, glabro, opaco; peritheciis densissime confertis, globulosis vel obovatis, majusculis, 550-780 μ . diam., parce e stromate prominulis atque apice minute discoideo-depressis, disculo marginato, medio papillato-ostiolato; ascis cylindræis, antice rotundato-truncatis, postice longissime attenuato-pedicellatis, p. sp. 55-65 \approx 2,5, 8-sporis, paraphysibus paucis, exilissimis, subfluxilibus obval-latis; sporidiis recte laxèque monostichis, elliptico-elongatis, 6-7 \approx 2,5, utrinque late rotundatis, leniter inæquilateralibus, non vel 2-guttatis, opace fuligineis.

Hab. ad truncos emortuos non putrescentes *Eugeniæ* speciei cujusdam, in nemorosis prope S. Tomas Bras. — Species *H. effuso* peraffinis; an tantum ejusdem varietas?

- * 153. **Hypoxylon intermedium** Speg. Fungi Guar. Pug. I, n. 203. — 6348
Stromatibus primo epidermide tectis dein erumpentibus v. cortice secedente nudis, matrice nigrificata innato-effusis, 3-5 cm. diam., vix pulvinatis ac undulatis, laxè gregariis v. confluentibus, ambitu irregulariter repandis, intus extusque sordide fusco-atris, opacis, minutissime (vix oculo nudo) et laxè punctulatis, superficiem *Diatrypes Stigmatis* in mentem revocantibus; peritheciis elliptico-globosis, 350-400 μ . diam., monostichis, densissime constipatis, atris, carbonaceis, non prominulis, ostiolo papillulato, e stro-

mate breviter exerto donatis; ascis cylindraceutis, apice rotundatis, basi breviter pedicellatis, 65-75 \approx 7, paraphysibus paucissimis immixtis, 8-sporis; sporidiis ellipticis, utrinque late rotundatis, 9-10 \approx 6, rectis vel vix inæquilateralibus, oblique monostichis, opace olivaceo-fuliginis.

Hab. ad ramos truncosque putrescentes in silvis vetustis prope Guarapi Bras. — Species primo visu *H. anthracoidi* (sec. Speg. Fung. Arg. p. IV, n. 131) simillima, sed mox dignoscenda ostioli prominulis sporidiisque utrinque rotundato-obtusis.

- * 154. **Hypoxylon mbaiense** Speg. Fungi Guar. Pug. I, n. 202. — 6349
 Stromatibus matrice squarrulosule nigrefacta insidentibus, sparsis vel paucis aggregatis, oligocarpis, rotundatis vel elongatis, parvulis, 1-3 mm. long., 0,5-1 mm. lat., pulvinatis, 0,5 mm. crass., margine obtusato-determinatis, ruguloso-scrupulosis, subpruinuloso-asperis, primo fusciscenti-atris, dein extus intusque atris; peritheciis 5-20-aggregatis, globulosis, 400-450, e mutua pressione angulosis, non v. vix prominulis, disco (si perspicuo) applanato v. subumbilicato, ostiolo minutissimo, non visibili nec papillato perforatis, subcarbonaceis, nigris; ascis cylindraceutis, apice rotundatis, p. sp. 70-75 \approx 8-9, ped. 25-30 \approx 2-3, 8-sporis, paraphysibus filiformibus, densissimis obvallatis; sporidiis recte monostichis, valide navicularibus v. rarius elliptico-rhomboideis, 10-11 \approx 6-7,5, utrinque obtusis, primo olivaceis, pellucidis, crasse 1-2-guttulatis, dein opace fuliginis.

Hab. ad truncos decorticatos putrescentes Quebrachiae Lorentzii in silvis subvirginis prope Mbay Bras. — Species externa facie formam depauperatam *H. fusci* simulans, sed characteribus internis prædistincta.

KRETZSCHMARIA Fr. — Sacc. Syll. II, Add. XXIX.

- * 1. **Kretzschmaria guaranítica** Speg. Fungi Guar. Pug. I, n. 207. 6350
 — Stromate solitario, extus atro, intus albo-fareto, glabro; stipe deorsum insitio recto v. curvo, irregulariter incrassato-scrupuloso, glabro v. vix pruinuloso, sursum recto, erecto gracili, 20-30 mm. long., 0,5-1 mm. crass., terete, apicem versus gradatim leniterque attenuato, fusco-atro, longitudinaliter minute denseque granuloso, glabro, vertice abrupte in clavulam expanso; clavula plus minusve regulariter hemisphærico-lenticulari, 5-8 mm. diam., 1 mm. crass., margine acute rotundata, inferne sterili, levi, superne convexula, fertili, densiuscule mammilloso-papillata, atra; pe-

ritheciis monostichis, globoso-subdepressis, 400-450 μ . diam., extus atris, crassiusculis, coriacellis, e stromate parum prominulis, ostiolo umbonato-papillato, apice sæpius minute umbilicato ac zona fulvella, vix perspicua, cincto donatis; ascis cylindræcis, sursum obtusissime rotundatis, crassissime tunicatis, obturaculo majusculo, medio perforato, jodii ope intense cœrulescente ornatis, p. sp. 130-150 \approx 10-13, deorsum attenuato-stipitatis, 8-sporis, paraphysibus densis obvallatis; sporidiis elliptico-v. ovoideo-navicularibus, primo crasse 1-guttulatis, guttula sæpe ocellulata, dein opace fuligineis, utrinque rotundatis, 20-22 \approx 9-10, extremitate infera cristula hyalina, decidua, hemisphærica, stricta ornatis.

Hab. ad ramos dejectos putrescentes in silvis subvirgineis prope Guarapî Bras. — Species pulchra distinctissima, generibus *Kretzschmaria* et *Poronia* intermedia.

- *2. **Kretzschmaria Berkeleyana** (Cooke) Berl. et Vogl. *Hypoxylon* 6351
cænopus var. Berk. in Herb. *Rhopalopsis Berkeleyanum* Cooke in Grevillea XII, p. 2. — Cæspitibus suborbicularibus, 2,5-5 cm. latis; stromatibus clavatis, stipitatis, superne applanatis, dense congestis, atris, opacis, simplicibus, rarissime confluentibus, in stipitem brevem, rugulosum, infra attenuatis; peritheciis minutis, numerosissimis, compressis, prominulis; ascis cylindræcis; sporidiis ellipticis, inæquilateralibus, continuis, fuscis, 8-10 \approx 4.

Hab. in corticibus in Brasilia et in insula Ceylon. — Habitu *K. cænopodi* sed peritheciis minoribus, sporidiis diversis.

- *3. **Kretzschmaria confusa** (Berk. et Cooke) Sacc. Syll. II, add. 6352
XXIX, *Rhopalopsis confusum* Berk. et Cooke in Grevillea XII, p. 2. — Gregaria, stipitata, simplex; capitulis globoso-depressis, glaucis, demum nigris, in stipitem flexuosum attenuatis; peritheciis innatis, globosis, ostiolis punctiformibus; ascis sporidiisque non visis.

Hab. in ligno in Brasilia.

NUMMULARIA Tul. — Sacc. Syll. I, p. 395.

- *1. **Nummularia Clypeus** (Schw.) Cooke in Grevillea XII, p. 6, *Sphæ-* 6353
ria Clypeus Schwz. Syn. Car. n. 42, *N. Bulliardii* Sacc. Syll. I, p. 396 p. p. — Explanata, ambitu elliptico, immersa, atro-nitens, ostiolis conicis, prominulis exasperata, 25-75 mm. diam., margine ligneo undulato cincta; ascis cylindræcis; sporidiis ellipticis, utrinque attenuatis, amygdalæformibus, continuis, fuscis, 20 \approx 8.

Hab. in ramis Catalpæ etc. in Amer. bor. (Doct. CURTIS).

- *2. **Nummularia Macula** (Schwz.) Cooke in Grevillea XII, pag. 6, 6354

Sphaeria macula Schw. Syn. Car. n. 38. — Suborbicularis, erumpens, convexo-applanata, atra, ostiolis minutis punctiformibus notata; ascis cylindraceutis; sporidiis late ovalibus, atro-fuscis, 11 \approx 9.

Hab. in cortice Platani in Amer. bor.

- *3. **Nummularia scutata** Berk. et Cooke in Grevillea XII, p. 6. — 6355
Tenuis, orbicularis, applanata, atra, erumpens; ostiolis minutis punctiformibus, vix perspicuis; ascis cylindraceutis; sporidiis ellipticis, minutissimis, fuscis 4-5 \approx 2,5.

Hab. in ramis in insula Mauritio.

- *4. **Nummularia pezoides** Ell. et Ev. in Torr. bot. Club. 1884, p. 74. 6356
— Stromate carbonaceo, erumpenti-superficiali, depresso obconico, externe nigro, intus rufo-brunneo, circiter 1 cm. lato, 0,5 cm. alto, margine sublobato, attenuato; disco ostiolis prominentibus punctato; peritheciis piriformibus vel mutua pressione angulosis, circiter 1 mm. altis; sporidiis anguste ellipsoideis, uno latere inflatulis, brunneis, 1-2-nucleatis, 11-13 \approx 4-5.

Hab. in corticibus, Ottawa Canada Amer. bor.

- *6. **Nummularia testudinea** Cooke in Grevillea XII, p. 7. — Suborbicularis, convexa, fusca; margine tenui sterili; superficie demum in plagas minutas, hexagonas fissurato-diffracta, plagis cum peritheciis innatis convenientibus; peritheciis centralibus, congestis, globosis; ascis cylindraceutis; sporidiis ellipticis, fuscis, 5 \approx 3.

Hab. in corticibus in Africa occid.

- *8. **Nummularia mauritanica** Berk. et Cooke in Grevillea XII, p. 6. 6358
— Discoidea, demum confluens irregularisque, erumpens, convexo-applanata, levis, atra; ostiolis obsolete; peritheciis elongato-compressis; ascis cylindraceutis; sporidiis ellipticis, utrinque rotundatis, fuscis, 8 \approx 4.

Hab. in corticibus in insula Mauritio.

- *10. **Nummularia Baileyi** (B. et Br.) Cooke in Grevillea XII, p. 6. 6359
Hypoxyton Baileyi B. et Br. — Erumpens, orbicularis, cupulata margine incrassato, 4-7 mm. diam., elevato, disco ostiolis prominulis asperato; peritheciis elliptico-ovatis, centro immersis; ascis cylindraceutis; sporidiis ellipticis, fuscis, variabilibus, 13-20 μ . longis.

Hab. in ligno, Brisbane Australiæ (BAILEY).

- *13. **Nummularia australis** Cooke in Grevillea XII, p. 6. — Stromate 6360
cortice innascente, erumpente, effuso, determinato, sæpe disciformi, convexo, imposito, atro; peritheciis subglobosis, parvulis, 1-2 serialibus; ostiolis externis, vix visibilibus; ascis cylindraceutis; spori-

diis vere polymorphis, aliis fusiformibus, $21 \approx 9$, aliis ovatis, $12 \approx 8$, aliis intermediis, plerumque magnis, fuscis.

Hab. in corticibus, Clarence River Australiæ (Miss THORNETON).

18. **Nummularia glycyrrhiza** Schw. — Sacc. Syll. I, pag. 401, Cooke 1541
in Grevillea XII, p. 6. — Sporidia $11-13 \approx 4,5-5$.

*21. **Nummularia hypophlæa** (B. et Rav.) Cooke in Grevillea, pag. 51. 1137
— Huc ducendum, teste Cooke, *Anthostoma hypophlæum* Sacc.
Syll. I, pag. 306.

*22. **Nummularia guaranítica** Speg. Fung. Guar. Pug. I, n. 190. — 6361
Stromatibus erumpentibus, orbicularibus, 5-10 mm. diam., pulvinatulis, 1-1,5 mm. crassis, laxe gregariis, rarius confluentibus, applanatis vel vix medio depressulis, margine acute rotundatis, disco primo pruinula sæpe subcrustacea, cœrulescenti, alba vestito, dein nudo, glabro, fusco-atro, levi, vel vix sub lente valida minutissime punctulato; peritheciis elliptico-cylindraceutis, erectis, densissime constipatis, 1 mm. altis, $250-300 \mu$. diam., atris, coriaceis, ostiolo minutissimo, non vel vix stromatis superficiem attingente donatis; ascis cylindraceutis, sursum rotundato-truncatis, crassiusculeque tunicatis, deorsum modice attenuato-stipitatis, p. sp. $75 \approx 6$, ped. $12-15 \approx 2$, octosporis, pseudoparaphysibus fluxilibus, crassissimis, prælongis obvallatis; sporidiis ellipticis, $10 \approx 5$, recte monostichis, minutissime granuloso-papillulosis, non vel vix granuloso-farctis, chlorino-carneis.

Hab. ad ramos ac truncos dejectos putrescentes in silvis subvirgineis prope Guarapí Bras. — Species pulchella distinctissima sporidiis vix coloratis, a genere nonnihil recedens.

*24. **Nummularia rumpens** Cooke in Grevillea XII, pag. 51, *Antho-* 1140
stoma rumpens Sacc. Syll. I, p. 306.

Sect. 3. Hyalosporæ Sacc.

CERATOSTOMELLA Sacc. Syll. I, p. 408.

*2. **Ceratostomella microcarpa** Karst. in Hedw. 1884, p. 86. — Rev. 6362
atque Synop. Ascóm. Fenn. p. 73. — Peritheciis gregariis, erumpentibus, denique liberis, vulgo sphæroideis, atris, circ. 0,3 mm. lat., rostro cylindraceuto, æquali, levi, perithecium æquante vel eo duplo longiore; ascis crasse clavatis, $18-25 \approx 4$; sporidiis conglobatis vel tristichis, elongatis vel cylindraceutis, curvulis, simplicibus, hyalinis, $4 \approx 0,5-1$.

Hab. in ligno vetusto Populi tremulæ prope Mustiala Fennicæ. — A cæteris speciebus minutie partium omnium statim tu-teque dignoscitur.

10. **Ceratostomella stricta** (Pers.) Sacc. Syll. I, p. 410, var. **majuscula** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. Ill. Fung. Slav. n. 845. — A typo recedit sporidiis paullo majoribus, nempe 12-14 \approx 3, pariter 2-3-guttatis, hyalinis.

Hab. in ligno putri populino prope Vinkovce Slavonicæ.

GNOMONIELLA Sacc. Syll. I, p. 413.

- * 13. **Gnomoniella vagans** Johans. Svamp. fran. Island. p. 163, t. XXIX, fig. 6. — Peritheciis sparsis vel gregariis, parenchymate innatis, sphæroideis, siccis depressis basi-que collapsis, atris, 270-330 μ . d., rostro cylindræo, rigido, circ. 200 μ . longo, epidermidem perforante; ascis cylindræis seu subcylindræis, aparaphysatis, in pedicellum brevissimum acute attenuatis, 35-57 \approx 8-11, octosporis; sporidiis distichis, ovoideo-elongatis, sæpe inæquilateralibus, simplicibus, hyalinis, eguttulatis, membrana tenui, apice incrassata, 9-13 \approx 4-5. 6363

Hab. in petiolis et pedunculis emortuis Dryadis octopetalæ Eskifjördur Islandicæ orientalis.

LÆSTADIA Auersw. — Sacc. Syll. I, p. 421.

- * 3. **Læstadia Malbrancheana** Sacc. Fung. Gall. ser. V. n. 2158. — Peritheciis minutis, globoso-depressis, epidermide velatis, in maculis arescendo cinerascensibus, vagis, sparsis, amphigenis; ascis clavato-teretibus, subsessilibus, aparaphysatis, octosporis, 48 \approx 7; sporidiis distichis, ellipsoideis, continuis, granulato-guttulatis, 13-14 \approx 4, hyalinis. 6364

Hab. in foliis Pyrolæ secundæ, Montauvert Gallicæ. — Sociæ adest *Septoria Pyrolæ* Sacc.: peritheciis epidermide velatis, punctiformibus, macula nulla v. obsoleta insidentibus; spermatiis fusoidæo-bacillaribus, 20-23 \approx 3-4, curvulis, hyalinis.

- * 6. **Læstadia Potentillæ** Rostrup Islands Svampe p. 11. — Peritheciis lenticularibus, umbilicatis, nitidis; ascis cylindræo-clavatis, curvulis, 30-35 \approx 8-12; sporidiis distichis, fusoidæo-oblongatis, hyalinis, 9-12 \approx 3-4. 6365

- * 7. **Læstadia guarapiensis** Speg. Fung. Guar. Pug. I, n. 184. — Peritheciis laxè gregariis, epidermide tenui, albescente tectis eaque 6366

sæpe adnatis, lenticulari-globosis, 150-200 μ . d., atris, glabris, membranaceis, coriaccis contextu subindistincto; ascis clavatis sursum obtusissime rotundatis crasseque tunicatis, deorsum breviter attenuato-stipitatis, 75-85 \approx 15-18, octosporis aparaphysatis; sporidiis distichis, ellipticis, medio tumidulis, utrinque subtruncato-rotundatis, rarius acutatis, 18-20 \approx 8, non v. vix inæquilateralibus, granuloso-farctis, hyalinis.

Hab. ad ramulos dejectos putrescentes Ricini communis prope Guarapí Bras. — Species eximia, distinctissima; an huc *Botryosphaeria Delilei*?

- * 10. **Læstadia celata** Harkn. New Calif. Fungi p. 23. — Peritheciis 6367
hypophyllis, omnino immersis, sparsis; ascis clavatis, longe stipitatis, 45 \approx 15; paraphysibus nullis; sporidiis hyalinis, turbinatis, nitentibus; endochromate in parte acutiori sporidii diviso, 12 \approx 6.

Hab. in foliis emortuis Quercus densifloræ, Tamalpais in California.

- * 11. **Læstadia Orontii** (Ellis et Ev.) Berl. et Vogl. *Physalospora* 6368
Orontii Ell. et Ev. in Journ. of Myc. 1885, p. 150. — Maculis elongatis, siccis, 3-4 \approx 1 cm.; peritheciis erumpentibus, orbicularibus, depressis, 150-180 μ . diam., centrum macularum occupantibus, poro minute pertusis, membranaceis; ascis oblongo-cylindraceis, basi abrupte attenuatis, sessilibus, apice truncatis; sporidiis distichis, granulosis, 14-16 \approx 6,7 subhyalinis.

Hab. in foliis vivis Orontii aquatici, Newfield Amer. bor. 6369

- * 12. **Læstadia fusispora** Sacc. et Berl. Miscell. Myc. p. 26, n. 115, tab. VIII, f. 3. — Maculis epiphyllis vagis, subochraceis; peritheciis subsparsis, globoso-lenticularibus, breve papillatis, tectis dein erumpentibus, 100-110 μ . diam., membranaceis; ascis cylindraceis, aparaphysatis, breviter stipitatis, 80-90 \approx 8, octosporis; sporidiis 1-stichis, fusoidis, 20-22 \approx 4-5, subinde inæquilateralibus, hyalinis, eguttatis.

Hab. in foliis putrescentibus Quercus pedunculata, Cervarese prope Padova Ital. bor. — Ab affini *Physalospora fusispora* differt peritheciis minoribus, ascis aparaphysatis et dimidio angustioribus.

- * 14. **Læstadia auripunctum** Harkn. New Calif. Fungi p. 23. — Hypo- 6370
phylla; peritheciis sparsis, 5-20 in maculis flaveolis, orbicularibus, 2-5 mm. diam., linea obscure brunnea marginatis; nucleo aurantiaco; ascis 8-sporis, fusiformibus, 54-10, longe stipitatis; sporidiis hyalinis, ovatis vel clavatis, 10 \approx 6.

Hab. in foliis vivis *Quercus Wislizeni*, Folsom in California.

- * 15. **Læstadia polystigma** (Ell. et Ev.) Berl. et Vogl. *Sphærella polystigma* Ell. et Ev. in Bull. Torr. bot. Club. 1883, pag. 117. — Peritheciis latis, in pagina inferiore foliorum sparsis, epidermide nigrificata tectis, subhemisphæricis, collapsis; ostiolo papilliformi, perforato; ascis 35-40 \approx 8, oblongis, sessilibus; sporidiis distichis, ovato-ellipsoideis, continuis, subhyalinis, 10-12 \approx 3-4.

Hab. in foliis delapsis, Ohio Amer. bor. (KELLERMANN).

- * 16. **Læstadia Buxi** (Fuck.) Sacc. Syll. II, Add. XXXI, Winter in Hedwigia 1886, p. 22. — Asci breviter pedicellati, 50-60 \approx 10, sporidia 14-17 \approx 4,5-5.

- * 19. **Læstadia Iridis** (Cooke) Berl. et Vogl. *Sphærella Iridis* Cooke in Grevillea XIII, p. 33. — Caulicola; peritheciis laxè gregariis punctiformibus, epidermide ostiolo minuto perforata tectis; ascis clavatis, sessilibus, octosporis; sporidiis ellipticis, utrinque leniter attenuatis, 12-14 \approx 4-5, hyalinis.

Hab. in pedunculis florum *Iridis Germanicæ*, Kew Britannicæ.

- * 20. **Læstadia microscopica** (Niessl) Berl. et Vogl. *Ascospora microscopica* Niessl in Rabenh. Fungi europ. 1939 et Winter Hedw. 1886, p. 11. — Peritheciis epiphyllis, dense sparsis vel hinc inde gregariis, minutissimis, fere globosis, atris nitidis, vertice poro pertusis; ascis oblique ovatis vel oblongis, breviter stipitatis, 20 \approx 8-10; sporidiis subcylindricis, rectis, utrinque obtasis, guttulis 4 præditis, hyalinis, 12-14 \approx 2-3.

Hab. in foliis emortuis *Rubi fruticosi* in Styria Germanicæ.

- * 21. **Læstadia Zaviana** Sacc. et Berl. Misc. Myc. II, p. 27, n. 117, tab. VIII, fig. 2, *Diaporthe Zaviana* Sacc. Spec. Myc. Ven. p. 139, t. XIV, f. 5-7 et Syll. I, p. 668. — Stroma absolute nullum ostiolumque brevissimum, nec non defectus foveolarum in apice asci suadent hanc speciem in genus *Læstadium* potius ducere; asci 27-30 \approx 6-8; sporidia disticha, 6-7 \approx 3-4, 3-guttata, hyalina, initio utrinque apiculo 1-2 μ . longo aucta.

Hab. in sarmentis corticatis *Rubi fruticosi*, Fiumicello Ital. bor. — Iterum reperta et e genere novo studio remota.

- * 24. **Læstadia depressa** (Peck) Berl. et Vogl. *Sphærella depressa* Peck in 33 Rep. Stat. Mus. p. 34. — Peritheciis numerosis, minutis, depressis vel subinde siccitate concavis, atris; ascis oblong-

go-clavatis; sporidiis simplicibus, oblongo ellipsoideis vel subfusiformibus, 12-15 μ . longis.

Hab. in caulibus emortuis Mulgedii, Center Amer. bor.

- *25. **Læstadia caryophyllea** (Cooke et Harkn.) Berl. et Vogl. *Sphærella caryophyllea* Cooke et Harkn. in Grevillea XIV, p. 9. — Peritheciis minutis, punctiformibus, densissime gregariis, aterrimis, convexis, emergentibus; ascis obclavatis, octosporis; sporidiis obtuse lanceolatis, biserialibus, continuis, hyalinis, 20 \approx 7,5. 6375

Hab. in caulibus Dianthi in California (HARKNESS).

- *28. **Læstadia Camilleæ** (Cooke) Berl. et Vogl. *Sphærella Camilleæ* Cooke in Grevillea XIII, pag. 4. — Epiphylla, sparsa; peritheciis semiimmersis, membranaceis, 250 μ . diam., atro-fuscis; ascis clavatis, octosporis; sporidiis biserialibus ellipticis, continuis, 12 \approx 5, pallidis, hyalinis. 6376

Hab. in foliis Camilleæ theæ, Johore pr. Perak Malesiæ.

- *35. **Læstadia guaranitica** Speg. Fung. Guar. Pag. I, n. 183. — Maculis amphigenis, suborbicularibus, 2-8 mm. diam., determinatis, tenui griseo-arescentibus, subpellucidis; peritheciis epiphyllis in maculis laxe gregariis, tectis, globulosis, minutis, 80-90 μ . d., glabris, levibus, atris, membranaceis, ostiolo minuto, rotundo, contextu crasse celluloso-parenchymatico, fuligineo-olivaceo; ascis clavatis, antice obtuse rotundatis et subcrassiuscule tunicatis, postice breviuscule attenuato-stipitatis, 50-55 \approx 10, octosporis, aparaphysatis; sporidiis distichis v. monostichis, ellipticis, medio tumidulis, utrinque subtruncato-rotundatis, 10-11 \approx 5, non v. vix inæquilateralibus, nubuloso farctis, hyalinis. 6377

Hab. ad folia viva Monesiæ speciei cujusdam in dumetis colinis, Cerro Hu prope Paraguari Bras.

- *40. **Læstadia Rhodoræ** (Cooke) Berl. et Vogl. *Sphæria Rhodoræ* Cooke in Grev. XIII, p. 99. — Epiphylla; peritheciis gregariis, in maculis latis, irregularibus, ferrugineis insidentibus, parenchymate immersis, subglobosis, atris, ostiolis punctiformibus epidermidem perforantibus; ascis clavatis, aparaphysatis, 80-120 \approx 16; sporidiis ellipticis, hyalinis, continuis, 15 \approx 7. 6378

Hab. in foliis vivis Rhododendri, Kew Britanniæ. — A *L. Rhododendri* distincta.

- *42. **Læstadia destructiva** (Berk. et Br.) Berl. et Vogl. *Sphærella destructiva* Berk. et Broom. IV List. Fung. Brisb., Queesl. n. 268, tab. XV, fig. 22-24. — Peritheciis minutis, in maculis brunneis sitis; ascis brevibus, 75 μ . longis; sporidiis monostichis vel inor-

dinate distichis, subellipticis, basi subattenuatis 12 μ . longis hyalinis.

Hab. in foliis... Brisbane.

- *43. **Læstadia Polypodii** Sacc. et Magn. *Miscell. Myc.* II, pag. 27, 6380
n. 116, tab. VIII, fig. 6. — Maculis vagis, ferruginosis, amphigenis; peritheciis hinc inde densissime gregariis, amphigenis, innatoprominulis, globulosis, vix pertusis, 90-100 μ . diam. atris; ascis tereti-clavatis, aparaphysatis, 60 \approx 15, breve stipitatis, octosporis; sporidiis distichis, ovato-oblongis, continuis, 11-12 \approx 5-6, granulosis, hyalinis.

Hab. in foliis Polypodii vulgaris, Sassari Sardinia et Albano Latii (MAGNUS).

PHOMATOSPORA Sacc. Syll. I, p. 432.

- *1. **Phomatospora Luzulæ** Cocc. et Mor. *Enum. Funghi della Provincia di Bologna*, Cent. III, pag. 15, t. I, f. 3-7. — Peritheciis membranaceis, in foliis siccis insidentibus, globoso-depressis, epidermide tectis, dein erumpentibus, ostiolo prominulo præditis, 280-340 μ . diam.; ascis cylindræis, interdum aliquantum clavatis, 42-46 \approx 5-6; sporidiis hyalinis, fusiformi-oblongatis, rectis vel levisime flexuosis, denique biguttulatis, 12-14 \approx 2-3.

Hab. in foliis Luzulæ spadiceæ prope Corno alle Scale, Bologna Italiae med.

- *4. **Phomatospora Datiscæ** Harkn. *New Calif. Fungi* p. 23. — Peritheciis sparsis, epidermide tectis; ostiolo conico; ascis 8-sporis, oblongis vel obclavatis, 50-60 \approx 12-20, aparaphysatis; sporidiis oblongo-ovoideis, hyalinis vel minute granulosis, utrinque guttulis, 20-30 \approx 8-10.

Hab. in caulibus emortuis Datiscæ glomeratæ, Folsom Californiae.

- *5. **Phomatospora endopteris** Phill. et Plowr. in *Grevillea* XIII, pag. 76. — Peritheciis globosis, profunde pedunculo frondium immersis; ostiolis minutis, collo longo, cylindrico, superficiem perforante præditis; ascis cylindricis, 30 \approx 5; sporidiis oblongis, ovoideis, hyalinis, simplicibus, uniseriatis, 10-11 \approx 3.

Hab. in frondibus Pteridis aquilinæ prope Leigh Wood Britannia (BUCKNALL).

PHYSALOSPORA Niessl. — Sacc. Syll. I, p. 433.

5. **Physalospora gregaria** Sacc. Syll. I, p. 435, ***Ph. platanicola**: Sacc. 1660

et Berl. Misc. Myc. II, n. 82. — Sporidiis quam in typo paullo brevioribus, nempe 20-22 \approx 9; ascis 60-70 \approx 12-14.

Hab. ad ramulos Platani, Genève (I. ROMÈ).

- *5. **Physalospora Geranii** Cooke et Hark. in Grevillea XIII, p. 9. — 6384
Peritheciis densissime gregariis, convexis, atris, epidermide velatis, demum erumpentibus; ascis clavatis, amplis, octosporis; sporidiis ellipticis, biserialibus, continuis, intus granulosis, hyalinis, 25-28 \approx 10.

Hab. in caulibus Geranii in California (HARKNESS).

9. **Physalospora alpina** Speg. — Sacc. Syll. I, pag. 436 *Ph. **Crepi-** 6385
niana Sacc. et March. in Revue Myc. 1885, p. 145. — Peritheciis tectis dein prominulis, globosis, obtuse papillatis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam., atris, amphigenis, gregariis v. sparsis; ascis oblongis crassis, 100-110 \approx 10-25, paraphysatis, octosporis, brevissime stipitatis; sporidiis distichis, oblongo-ellipsoideis, utrinque rotundatis, 20-26 \approx 10-11, e hyalino dilute flavidis, granulosis.

Hab. in foliis languidis Empetri nigri, Samrée, prov. Luxembourg in Belgio (CRÉPIN). — A *Ph. alpina* typica differt sporidiis brevioribus crassioribusque et peritheciis minoribus.

- *30. **Physalospora fuispora** Sacc. et Roum. in Rev. Myc. 1883, 6386
p. 233, tab. 39, fig. 2. — Peritheciis epiphyllis, hinc inde gregariis, epidermide velatis, globoso-depressis, breve papillatis, 120-130 μ . diam., contextu parenchymatico, duriusculo, fuligineo; ascis tereti-clavatis, obsolete paraphysatis, 80-90 \approx 12-16, subsessilibus, octosporis; sporidiis distichis, fusoides, rectiusculis, utrinque acutatis, 23-26 \approx 5-6, hyalinis.

Hab. in foliis dejectis Ilicis Aquifolii in Gallia. — A *Ph. philoprina* ascis cylindræis, longioribus, sporidiis fusiformibus etc. recedit.

- *35. **Physalospora Uvæ-sarmenti** (Cooke) Berl. et Vogl. *Sphæria* 6387
uvæ-sarmenti Cooke in Grevillea XIII, p. 109. — Tecta, sparsa vel subgregaria; peritheciis globosis, atris, subprominulis; ascis clavatis; sporidiis lanceolatis, continuis, hyalinis, 40 \approx 8.

Hab. in sarmentis Vitis, Aiken Carol. austr.

- *59. **Physalospora bina** Harkn. New Calif. Fungi pag. 23. — Epi- 6388
phylla; peritheciis lucidis, nigris, hemisphæricis, subliberis, numerosis, in maculis albescentibus, irregularibus, folii tertium vel amplius occupantibus, linea atra circumscriptis; paraphysibus vacuolatis; ascis bisporis, delicatis, fusiformibus, in pedicellum graci-

lem attenuatis, $45 \approx 9$; sporidiis oblongo-ellipsoideis vel naviculæformibus, apice acutis, basi rotundatis, multi-nucleatis, $15 \approx 6$.

Hab. in foliis vivis *Quercus agrifoliæ*, Tamalpais in California.

* 60. **Physalospora quercifolia** Ell. et Ev. in Journ. of Myc. 1885. — 6389

Peritheciis $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., globosis, nucleo vix colorato faretis, substantia foliorum immersis, in utraque foliorum pagina distincte prominulis, epidermide vix nigrefacta, iis adhærente tectis, demum quandoque collapsis, ostioliis papillæformibus, per epidermidis ruptionem vix visibilibus præditis; ascis oblongis, $75-80 \approx 12$, basi in pedicellum brevem, abrupte truncatum desinentibus; sporidiis distichis, acute ellipticis vel late fusiformibus, granulosis, hyalinis, $15-25 \approx 6-8$.

Hab. in foliis emortuis *Quercus coccineæ*, sociâ *Harknessiâ hyalinâ*, cujus verisimiliter est status stylosporus, Newfield Amer. bor.

* 61. **Physalospora ilicis** (Schl.) Sacc. *Sphaeria ilicis* Schleich in El. 6390

lis North Americam Fungi n. 196. — Peritheciis sparsis, epidermide demum rimose rupta, centro albida tectis, prominulis, epiphyl-
lis, globosis, globosove-conoideis $\frac{1}{3}$ mm. diam.; ascis cylindræis, sursum rotundatis, basi attenuatis, sensim breviterque stipitatis, $80 \approx 12$ octosporis; sporidiis distichis, cymbiformibus, utrinque rotundatis, $15 \approx 5$, hyalinis.

Hab. in pagina superiore foliorum *Ilicis opacæ* in America boreali. — «Huc verisimiliter spectat *Ph. philoprina*».

62. **Physalospora coccodes** (Lév.) Sacc. Syll. I, p. 446 et in Rev. Myc. 1717

1885, p. 156. — Perithecia epidermide nigra, nitida tecta; asci $90-100 \approx 10-14$; sporidia $10-12 \approx 8$.

* 65. **Physalospora paraguaxa** Speg. Fung. Guar. Pug. I, n. 185. — 6391 X 3

Peritheciis primo tectis, dein erumpenti-semiimmersis, laxè gregariis ac irregulariter hinc inde subseriatis, e globoso-conoideis, $150-180 \mu$. diam., atris, levibus, glabris, ostiolo impresso, pertuso donatis, membranaceo-coriacellis, contextu minutissime ac subindistincte parenchymatico, atro-olivaceo; ascis cylindræis, $65-70 \approx 3-4$, apice truncato-rotundatis crassiusculeque tunicatis, postice breviuscule attenuato-pedicellatis, octosporis, paraphysibus mucoso-evanescentibus, densis obvallatis; sporidiis monostichis, ellipticis, utrinque plus minusve, rotundatis, $5-8 \approx 2,5$, non vel crasse 1-2-guttulatis, hyalinis.

Hab. ad culmos dejectos putrescentes *Sacchari officinarum* in cultis prope Guarapi Bras.

- *70. **Physalospora tecta** Wint. in Hedw. 1885. — Peritheciis sparsis vel gregariis, immersis, depresse globosis, membranaceis, fuscis, ostiolo papillæformi, prominulo instructis, circ. 240-270 μ . d.; ascis oblongis vel oblongo-obclavatis, e basi latiori sursum parum attenuatis, sessilibus, apice non incrassatis, rotundatis, 8-sporis, 52-62 \approx 14-18; sporidiis inordinatis, ellipsoideis vel oblongo-subclavatis, unicellularibus, guttula magna præditis, hyalinis, demum dilutissime fuscidulis, 16-21 \approx 8-9; paraphysibus filiformibus, indistinctis.
Hab. in foliorum *Palmarum* partibus exsiccatis in Brasilia prope S. Francisco Amer. bor. 6392
- *71. **Physalospora Lecanoræ** (Stein) Winter in Hedw. 1886, p. 22, 6393
Thrombium Lecanoræ Stein. l. c. pag. 329. — Peritheciis superficialibus, sessilibus, minutissimis, hemisphaericis vel late conoideis, vertice truncato impressoque, late pertuso, 0,05 mm. diam.; ascis cylindræo-clavatis, plerumque, 8-rarius 4-sporis; sporidiis oblongo-ovoideis vel dacryoideis, guttulis 2-4, magnis præditis, 16-20 \approx 6-8.
Hab. in thallo ascomatibusque *Lecanoræ* subfuscae var. saxicolæ in Germania.
- *72. **Physalospora Collemæ** (Stein) Winter in Hedw. 1886, pag. 22, 6394
Thrombium Collemæ Stein. *Flecten Schlesiens* p. 330. — Peritheciis globosis, omnino immersis, minutissimis, atris nitidis, vertice, vix prominulis, convexis, poro minutissimo pertusis, 0,05 mm. diam.; ascis cylindricis, 8-sporis; sporidiis monostichis, ovoideis vel ellipsoideis, guttulis oleosis, magnis præditis, 12-16 \approx 8-10 hyalinis; paraphysibus distinctis.
Hab. in fructibus *Collematis fulvi* in Germania.
- *73. **Physalospora? microthelia** (Wallr.) Winter in Hedwigia 1886, 6395
p. 23, *Verrucaria microthelia* Wallr. *Flora I*, pag. 209. — Peritheciis fere verrucarioideis, thalli areolis immersis, fuscis; paraphysibus indistinctis; sporidiis oblongis vel ovalibus simplicibus, hyalinis, 12-15 \approx 6-7,8 in ascis subcylindricis non raro uniseriatis.
Hab. in thallo sterili *Biatoræ coarctatae* parasitans in Germania.
- *74. **Physalospora? psoromoides** (Borr.) Winter in Hedw. 1886, 6396
pag. 23, *Verrucaria psoromoides* Borr. in *Engl. Botan. Suppl.* 2612, fig. 1. *Endocarpon psoromoides* Hook., *Brit. Flora II*, pag. 157, *Phacopsis psoromoides* Hepp. *Europ. Flecht.* n. 475. — Peritheciis gregariis, thallo immersis, fere globosis, ostiolo fusco-atro, late pertuso, subhemisphaerico prominulis, tenui-membranaceis; ascis

oblongis, utrinque attenuatis, 8-sporis; sporidiis elliptico-oblongis v. ovoideis, continuis, 12-14 \approx 5; paraphysibus indistinctis, mucosis.

Hab. in thallo *Parmeliæ pulverulentæ* et *Aspiciliæ*, mucosæ in Germania.

TRABUTIA Sacc. et Roum. — Sacc. Syll. I, p. 449.

- *1. **Trabutia Bauhinia** Wint. in Hedw. 1885, I. — Stromate tenui, sæpe obsoleto, atro, crustaceo; peritheciis gregariis, sæpe stellatim vel radiatim dispositis, non raro concrenentibus, semiimmersis, globosis, vertice subconico protuberantibus, atris, nitidiusculis, parte superiori carbonaceis, atris, parte inferiori (immersis) membranaceis, pallidis, 210-240 μ . diam.; ascis inflato-oblongis, subsessilibus, utrinque attenuatis, membrana tenuissima, apice parum incrassata præditis, 8-sporis, 60-70 \approx 17-22; sporidiis inordinatis, oblongis, utrinque parum attenuatis, sed rotundatis, inæquilateralibus, unicellularibus, hyalinis, 16-17,5 \approx 5.

Hab. ad folia viva *Bauhinia Vahlia* in horto botanico Calcuttæ Indiæ (S. Kurz).

DITOPELLA De Not. — Sacc. Syll. I, p. 450.

- *1. **Ditopella microscopica** Karst. in Rev. Mon. p. 71, *Apiosporium* 6398
microscopicum Karst. Symb. ad Myc. Fenn. VI, pag. 42, Sacc. Syll. I, p. 132. — Perithecia sparsa, epidermide innata, sphæroidea, subastoma, levia, atra, 30-40 μ . diam.

TRICHOSPHERIA Fuck. — Sacc. Syll. I, pag. 453.

3. **Trichosphæria Punctillum** Rehm — Sacc. Syll. I, p. 452, ***T. pachyspora** 1743
Sacc. Rouss. et Bonm. in Misc. Myc. I, p. 17. — Peritheciis $\frac{1}{4}$ mm. diam.; setulis septatis atro-fuscis 150-200 \approx 8; ascis tereti-fusoideis, 30-80 \approx 10; sporidiis ellipsoideis, utrinque acutiusculis 10-12 \approx 7, granulosis, hyalinis vel dilutissime flavidis.

Hab. in lignis putridis prope Bruxelles in Belgio. — A typo recedit sporidiis paulo brevioribus et crassioribus.

SCORTECHINIA Sacc. (Etym. a sollertiss. botanico italo Rev. BENOJ.

SCORTECHINI, Australiae et Malesiae exploratore) *Trichosphæria* Sacc. ex p., Syll. I, p. 454, *Sphæria* Mont. — Perithecia in subiculo late effuso, compacto, pannoso, fusco, fere penitus immersa, minutissima, levia, epaillata, tandem pertusa, vix carbonacea. Subiculi hyphæ subdichotome ramosæ, filiformes, fuliginæ, continuæ, ubique spinulis, apice acute 2-3-dentatis exasperatæ. Asci clavati, te-

nerrimi, longe stipitati, apice obtusi, octospori, aparaphysati. Sporidia disticha, ex oblongo breve fusoidea, utrinque acuta, hyalina.

- * 1. **Scortechinia acanthostroma** (Mont.) Sacc. et Berl. Misc. Myc. II, 1754
n. 22, *Sphæria acanthostroma* Mont., *Trichosphæria acanthostroma* Sacc. Syll. I, p. 454. — Ascis p. sp. 35-40 \approx 9, stipite 35-40 \approx 2,5; sporidia 10-11 \approx 3,5-4,5, biguttata, adsunt quoque conidia hyphis in-
spersa obovato-oblonga, 12-13 \approx 5-6, binucleata, pallide lutescentia.

Hab. ad cortices arborum, Burleigh Head Australiæ.

WALLROTHIELLA Sacc. Syll. I, p. 455.

- * 1. **Wallrothiella eunotiæspora** (Cooke et Hark.) Berl. et Vogl., *Sphæ-* 6399
ria eunotiæspora Cooke et Harkness in Grevillea XIII, p. 18. —
Superficialis, gregaria; peritheciis obpiriformibus, $\frac{1}{2}$ mm. diam.,
atris, subnitidis, levibus, fragilibus; ascis clavatis; sporidiis ellipticis,
medio inflatis, biseriatis, continuis, 30-35 \approx 12-14, plasmate granuloso.

Hab. in *Acacia* quadam ex Australia, decorticata, in California (HARKNESS). — Socia adest *Diplodia* quadam.

INZENGÆA Borzi Ein neu. Ascom. (Etyim. a claro mycologo siculo G. INZENGÆA). — Perithecia superficialia, globoso-obovata, poro amplo pertusa, majuscula. Ascis primum globosi, dein stellati, octospori. Sporidia stellata, uninucleata hyalina. Status conidicus *Sty-sanus Borzianus* Sacc. — Ob sporidia eximie stellata, genus hoc sectionem propriam (*Actinosporæ*) constituere forte meretur.

1. **Inzengæa erythrospora** Borzi Inz. ein. neu. Ascomyc. tab. XIX, 6400
fig. 9-10. — Peritheciis superficialibus, verticaliter globoso-obovatis,
subiculo myceliali insidentibus, poro amplo pertusis, $\frac{1}{3}$ - $\frac{3}{4}$ mm. altis;
ascis globosis, primum tunica levi instructis demum crasse muricatis,
stellatisque, 17 μ . diam., octosporis; sporidiis stellatis, crasse uninucleatis,
8 μ . diam., hyalinis.

Hab. in fructibus putridis Oleæ europææ, S. Filippo Sici-liæ. — Status conidicus *Sty-sanus Borzianus* Sacc.

BOTRYOSPHERIA Ces. et De Not. — Sacc. Syll. I, p. 456.

1. **Botryosphæria Quercuum** (Schw.) Sacc. Syll. I, p. 456, var. **Carpini** 1762
Sacc. Misc. Myc. II, pag. 21, n. 92. — Acervulis pulvinatis, minutis, aterrimis; ascis clavatis, crasse tunicatis, 120-140 \approx 28-32,
crassiuscule paraphysatis, octosporis; sporidiis distichis, ovoideis,
28-32 \approx 14-18, intus granulosis, hyalinis.

Hab. in ramis Carpini, Troyes Galliæ (BRIARD).

2. **Botryosphæria Bèrengeriana** De Not. — Sacc. Syll. I, p. 457, *B. 1763
pachyspora Sacc. Misc. Myc. II, pag. 22, n. 31. — A typo recedit
 sporidiis crassioribus, nempe 20-32 \approx 14-18, et ascis angustiori-
 bus, nempe 120-180 \approx 28-32.

Hab. in ramis emortuis Carpini, Troyes Galliæ (BRIARD).

- *2. **Botryosphæria mutila** (Schw.) Cooke in Grevillea, *Sphæria mu-* 6401
tula Schw. Amer. bor. n. 1439, sec. spec. — Stromate innato; pe-
 ritheciis in series flexuosas erumpentibus, subconfluentibus, globos-
 is, superiore parte prominente, inæquali, rugosa, intus nucleo al-
 bido farctis; ascis clavatis, octosporis; sporidiis ellipticis, conti-
 nuis, hyalinis, 20-22 \approx 9.

Hab. in Populo etc. in America boreali. — Verisimiliter huc
 spectat *Botryosphæria Bèrengeriana*.

- *3. **Botryosphæria Viburni** Cooke in Grevillea XIII, p. 102. — Stro- 6402
 matibus erumpentibus, gregariis, minimis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., corti-
 colis, depresso pulvinatis, atro-fuscis, superficie tuberculosus, nucleo
 albo farctis; peritheciis 6-10, subimmersis, vertice convexis, per-
 tuis; ascis clavatis; sporidiis arcte ellipticis, continuis, flavescen-
 tibus, intus granulosus, 18-21 \approx 8.

Hab. in ramis Viburni Opuli in America boreali.

- *4. **Botryosphæria abrupta** Berk. et Curt. in Herb. Berk., Cooke in 6403
 Grevillea XIII, p. 101. — Stromatibus erumpentibus, epidermide
 fissurata arcte cinctis, subdiscoideis; peritheciis globosis, semiim-
 mersis, atris, demum confluentibus, truncato-obtusis, abruptis, in-
 tus albis; ascis clavatis, octosporis; sporidiis elliptico-fusiformi-
 bus, utrinque subattenuatis, obtusis, continuis, hyalinis, flavescen-
 tibus, intus granulosus, 22-24 \approx 10.

Hab. in Cyrilla in Carolina Americæ.

- *5. **Botryosphæria Syringæ** (Schw.) Cooke in Grevillea *Sphæria Sy-* 6404
syringæ Schw. Amer. bor. n. 1667. — Ascis elongato-clavatis, octo-
 sporis; sporidiis arcte ellipticis, continuis, hyalinis, 26-28 \approx 8.

Hab. in ramis Syringæ in Amer. bor. (ELLIS).

- *6. **Botryosphæria Araliæ** Curt. Cat. 143, Cooke in Grevillea XIII, 6405
 pag. 101. — Stromatibus innato-erumpentibus, corticolis, subpul-
 vinatis, nigris, plerumque lineato-aggregatis, 1 mm. diam., albo-
 farctis, peridermate cinctis; peritheciis vix distinctis, obtusiuscu-
 lis, opacis; ascis clavatis, octosporis; sporidiis ellipticis, continuis,
 hyalinis, 18 \approx 8.

Hab. in cortice Araliæ spinosæ in Carolina Amer. bor.

- *8. **Botryosphæria melachroa** Berk. et Curt. in Herb. Berk., Cooke 6406

in Grevillea XIII, p. 101. — Stromate longitudinaliter effuso, innato, erumpente; peritheciis ovatis, confertis, subdiscretis, atris, ad apicem rotundatis, paucis; ascis clavato-cylindricis; sporidiis ellipticis, continuis, 20 \approx 8, hyalinis.

Hab. in Cratægo cordato in Pennsylvania.

*13. **Botryosphæria hypoxylodea** Cooke in Grevillea XII, pag. 102. 6407
— Mox superficialis, hypoxylodea; peritheciis minimis, in pustulis orbicularibus coacervatis, convexis rugosis, atris, opacis, confluentibus; ascis cylindrico-clavatis, octosporis; sporidiis ellipticis, continuis, hyalinis, 12 \approx 5.

Hab. in ramis in Australia.

*17. **Botryosphæria Callicarpæ** Cooke in Grevillea XIII, p. 101. — 6408
Longitudinaliter erumpens; stromate elongato; peritheciis parvulis, confluentibus, atris; ascis clavatis; sporidiis continuis (immaturis visis).

Hab. in cortice Callicarpæ americanæ, Darien Georgia.

*18. **Botryosphæria Hypericorum** Cooke in Grevillea XIII, p. 102. 6409
— Subelliptica, planiuscula, atra; peritheciis parvulis, connatis, albo-farctis, epidermide fissa arcte cinctis; ascis clavatis, octosporis; sporidiis anguste ellipticis, continuis, hyalinis, circiter 20 \approx 5, immaturis.

Hab. in caule Hyperici proliferi in America boreali.

*28. **Botryosphæria subconnata** (Schw.) Cooke in Grev. XIII, p. 101, 4240
Sphæria subconnata Schw. Am. bor. n. 1443. Sacc. Syll. II, p. 393,
Winteria valsarioides Rehm in Thüm. Myc. Univ. n. 2166. —
Specimina *Berkeleyana* et *Schweinitziana* perfecte congruunt.

CRYPTOSPORELLA Sacc. Syll. I, p. 466.

*10. **Cryptosporella divergens** (Schw.) Berl. et Vogl. *Sphæria divergens* Schw. Syn. Car. 123 et Syn. Amer. bor. n. 1393, *Valsa divergens* Cooke in Grevillea XIII, p. 40. — Stromate tumidiusculo; acervulis perithecorum 5-10 mm. diam. æquantibus, suborbicularibus, epidermide cinctis; peritheciis atris vel cinerescentibus, ostiolis teretibus, longissimis, perithecio triplo longioribus, divergentibus; ascis octosporis; sporidiis subellipticis, hyalinis, 7 \approx 2, endochromate granuloso farctis.

Hab. in ramis dejectis Liquidambaris in Amer. bor.

*108. **Cryptosporella paucispora** (Peck) Berl. et Vogl. *Valsa paucispora* Peck in 33 Rep. St. Mus. 1883, p. 33. — Pustulis epidermide vix elevata, demum rupta tectis; peritheciis 2-5, cortice in-

teriore insidentibus; ostioliis brevibus, nigris, discum minutum, pallidum perforantibus, raro leniter radiato-sulcatis; ascis brevibus, 62-70 μ . longis, subcylindraceis, tetrasporis; sporidiis simplicibus, monostichis, subhyalinis, ovato-ellipsoideis, 15-20 \approx 10-11.

Hab. in ramulis emortuis Alni, North Greenbush Amer. bor.

Sect. 4. Hyalodidyma Sacc.

SPHÆRELLA Ces. et De Not. — Sacc. Syll. I, p. 476.

*2. **Sphærella fraxinea** Peck in 35 Rep. St. Mus. 1884, pag. 145. 6412

— Peritheciis numerosis, minutis 75 μ . diam., nigris, epiphyllis vel hypophyllis, sæpe in maculis suborbicularibus coacervatis; ascis oblongis, sæpe sursum leniter attenuatis, 35-40; sporidiis stipatis, oblongo-ovoideis, uniseptatis, 10-12 \approx 4-5, inæqualibus, parte majore tripla vel quadrupla.

Hab. in foliis Fraxini americanæ in montibus Helderberg Amer. bor.

*5. **Sphærella Evansiæ** Pat. in Rev. Myc. 1886, pag. 83. — Peri- 6413

theciis brunneis, minutis, 120-150 μ . diam., sparsis, primum epidermide tectis dein emersis; ascis sessilibus, aparaphysatis, 50-90 \approx 18-22, 8-sporis; sporidiis distichis, bilocularibus, altero rotundato, altero vero attenuato, septo parum constrictis, hyalino-vidulis, 15 \approx 4.

Hab. in foliis emortuis Evansiæ fimbriatæ, Thibet (AR. DAVID).

*18. **Sphærella acicola** Cooke et Hark. in Grevillea XIII, p. 20. — 6414

Sparsa, minuta, subinnata; peritheciis globoso-depressis, membranaceis, fuscis; ascis breviter clavatis, octosporis; sporidiis clavato-ellipticis, uniseptatis, hyalinis, flavidis, loculis altero subgloboso, altero angustiore subconico, 7 \approx 3.

Hab. in acubus Pini in California (HARKNESS).

*19. **Sphærella conigena** Peck 38 Rep. Stat. Mus. p. 104. — Peri- 6415

theciis minutis, sparsis vel gregariis, vix prominulis, erumpentibus, nigris; ascis subcylindraceis, 60-85 \approx 12; sporidiis stipatis, oblongo-clavatis, uniseptato-constrictis, 10-12 \approx 4-5, loculis inæqualibus, inferiore acutiore, superiore crassiore rotundatoque.

Hab. in conis dejectis Abietis canadensis in montibus Helderberg Amer. bor. — Differt a *S. Pinsapo* longitudine ascorum et fabrica sporidiorum nec non matrice.

*20. **Sphærella Sassafras** Ell. et Ev. in Torr. bot. Club 1883, p. 98. — 6416

Peritheciis minutis, semiimmersis, in superficie inferiore foliorum.

sparsis vel subaggregatis, sed non in quaque macula decolorata adstantibus; ascis 35 = 5; sporidiis distichis, oblongo-ellipsoideis, uniseptatis, 4 = 1,7, hyalinis.

Hab. in foliis emortuis *Sassafras officinalis*, Fairfield, Ohio Amer. bor. (W. A. KELLERMANN).

- *27. **Sphærella exarida** Winter in Rev. Myc. 1885. — Peritheciis in 6417
macula, plerumque magna, irregulari, determinata, fuscescente-grisea, arida, elevata, fusco-nigro-limitata gregariis, immersis, globosis, ostiolo papillato, pertuso prominulo, membranaceo, atro, 90-115 μ . diam.; ascis oblongis vel e basi latiori sursum parum attenuatis, sessilibus, 8-sporis, 42-52 = 12-14; sporidiis conglobatis, anguste clavatis, utrinque rotundatis, interdum parum curvatis, medio septatis, non constrictis, hyalinis, 17-21 = 3,5-4.

Hab. ad folia viva *Sapindaceæ* cujusdam, Guarapí Paraguay Amer. austr.

- *29 **Sphærella conferta** Speg. Fung. Guar. Pug. I, n. 216. — Ma- 6418
culis amphigenis, parvulis, 1-2 mm. diam., arescentibus, sordide fusco-griseis, obscure determinatis, irregulariter discoideis, angulosis v. repandulis, densiuscule sparsis; peritheciis hypophyllis, rarissime epiphyllis, numerosissimis, densissime constipatis, maculas nigras facientibus, epidermide primo tectis, dein suberumpentibus, atris, glabris, globoso-lenticularibus, 70-80 μ . diam., minute papillulato-ostiolutis, membranaceis, contextu parenchymatico, olivaceo; ascis cylindraceo-obclavatis v. subovatis, antice subtruncato-rotundatis, postice abrupte, nodulose brevissimeque stipitatis, 30-35 = 8-10, aparaphysatis, 8-sporis; sporidiis distichis, elliptico-elongatis, rectis v. vix inæquilateralibus, utrinque rotundatis, 10-13 = 2,5-3, medio 1-septatis, non constrictis, loculis in senectute (an semper?) obscure diblastibus, 1-2-guttulatis, supero sæpe subcrassiore, hyalinis.

Hab. ad folia languida v. dejecta *Sapindaceæ* cujusdam in silvis prope Guarapí Bras. — Species habitu mox distinguenda, facillime ad genus *Sphærulina* transferenda.

- *40. **Sphærella Hesperidum** Penz. et Sacc. Contr. fungh. agrum. II, 6419
p. 12. — Peritheciis laxè aggregatis, amphigenis, primum epidermide velatis, dein prorumpentibus, in arida foliorum macula insidentibus, subglobosis, aterrimis, 130-160 μ . d.; ascis clavatis, subsessilibus, apice truncatis, crasse tunicatis, 50-70 = 14-16, octosporis; sporidiis distichis, fusoideis, 16-18 = 4-5, uniseptatis, medio haud constrictis, hyalinis.

Hab. in foliis vivis Citri Limonum, Valle di Latte prope Ventimiglia Ital. bor.

46. **Sphærella assimilata** J. Kunze. — Sacc. Syll. I, p. 486, Winter 1864
in Hedwigia 1886, p. 21. — Sporidia 8-10 \approx 2,5-3.

*47. **Sphærella curva** Karst. in Hedw. 1883, n. 12, p. 3. — Rev. atque 6420
Synop. Ascom. fenn. p. 65. — Peritheciis?; ascis oblongatis, curvulis, infra medium inæqualiter inflatis, 46 \approx 14; sporidiis ovoideo-oblongatis, uniseptatis, ad septum leviter constrictis, rectis, dilute luteolis, 12 \approx 4-5.

Hab. in foliis emortuis Ribis alpini ad Mustiala Fennicæ.

*49. **Sphærella Mygindæ** Winter Contr. Fl. Myc. Lus. V, p. 13. — 6421
Peritheciis densis, gregariis, macula cinerea, rotundato-diformi, 1-10 mm. lata, interdum effusa et folii magnam partem occupante, insidentibus, primo immersis, demum superficialibus, punctiformibus, globosis, poro pertusis, atris, 80-90 μ . diam.; ascis elongato-obclavatis, in stipitem brevem productis, 36-48 μ . longis, infra medium 7 μ . latis, sursum usque 5 μ . attenuatis; sporidiis fusiformibus, sæpe parum inæquilateralibus, bicellularibus, cellula superiori parum latiori, hyalinis, inordinate distichis, 10-12 \approx 2,5.

Hab. ad Mygindæ pallentis folia arida, Coimbra Lusitaniæ (MOLLER).

*63. **Sphærella rubiginosa** Cooke in Grevillea XIII, p. 90. — Epi- 6422
phylla; peritheciis sparsis, minutis, punctiformibus, subprominulis, atris; ascis clavatis, sessilibus; sporidiis ellipticis, obtusis, medio leniter constrictis, uniseptatis, chlorinis, 10 \approx 5.

Hab. in foliis emortuis Pittospori rubiginosi, Johnston River, Queensland Australiæ. — A *Sph. Pittospori* omnino diversa, tametsi fructificatio similis.

*64. **Sphærella Sophoræ** Winter Contr. Fl. Myc. Lus. V, p. 13. — 6423
Peritheciis in macula pallida, exarida, fusco-atrocincta, 2-5 mm. lata, rotundata, amphigena, immersis, ostiolo punctiformi perforatis, globosis, fuscis, 90-110 μ . diam.; ascis elongato-oblongis, sessilibus, sursum vix attenuatis, rotundatis, 8-sporis, 56-68 \approx 15-16; sporidiis subdistichis, oblongis, didymis, hyalinis medio profunde constrictis, inæquilateralibus, cellula superiori latiori, guttulatis, 15-17 \approx 7-8.

Hab. in Sophoræ sp. foliis vivis, Coimbra Lusitaniæ (MOLLER).

*67. **Sphærella morifolia** Pass. in Erb. Critt. Ital. ser. II, n. 1464. 6424
— Peritheciis hypophyllis, sparsis vel subgregariis, superficialibus, globosis, atris; ascis brevibus, ut plurimum curvulis, basi inflatis,

inæquilateralibus, 50-55 \approx 10-15; sporidiis distichis vel acervato-subtristichis, oblongo-cuneatis, ad septum non vel leniter constrictis, 17-25 \approx 5-5 $\frac{1}{2}$, hyalinis.

Hab. in foliis dejectis Mori albæ, Parma Ital. bor.

- *71. **Sphærella Umbellulariæ** Cooke et Hark. in Grev. XIII, p. 21. — 6425
Hypophylla; maculis suborbicularibus confluentibusve et irregularibus, purpureo-brunneis, margine nigro limitatis; peritheciis hinc illinc aggregatis, semiimmersis, atris; ascis clavatis; sporidiis biserialibus, arcte ellipticis, uniseptatis, hyalinis, 15 \approx 4.

Hab. in foliis emortuis Umbellulariæ in California.

- *72. **Sphærella tahitensis** Sacc. Misc. Myc. I, pag. 27. — Peritheciis hypophyllis, velatis, hinc inde dense gregariis, punctiformibus, lenticularibus, pertusis, 80 μ . diam.; ascis tereti-fusoideis, subsessilibus, apice rotundatis, 48 \approx 7-8, octosporis; sporidiis distichis fusoido-clavulatis, 1-septatis, leniter constrictis, 4-guttulatis, 14 \approx 3, hyalinis. 6426

Hab. in foliis emortuis Mangiferæ indicæ (sociâ *Pestalotziâ funerea* f. *Mangiferæ*: conidiis quam in typo paullo minoribus, 22 \approx 6) in insula oceanica Tahiti (G. BRUNAUD).

- *79. **Sphærella hæmatodes** B. et C. in Herb. Berk., Cooke in Journ. of Bot. 1883, p. 70. — Epiphylla; maculis orbicularibus, sparsis vel confluentibus, rubro-fuscis, late marginatis; peritheciis minimis, nigris, semiimmersis, punctiformibus; ascis cylindrico-clavatis; sporidiis arcte ellipticis, continuis, hyalinis, 8-10 \approx 2,5. 6427

Hab. in *Kalmia glauca* in Amer. bor. — *Sph. colorata* valde affinis.

80. **Sphærella cinerescens** Fuck. — Sacc. Syll. I, pag. 193, Winter in Hedwigia 1886, p. 21. — Perithecia maculas cinerescens, plus minusve effusas formantia. 1898

81. **Sphærella cerasina** Cooke. — Sacc. Syll. I, p. 493. var. **padina** Karst. in Hedw. 1884, n. 1, p. 2. — Rev. atque Synop. Ascom. fenn. p. 64. — Peritheciis hypophyllis, innato-prominulis, punctiformibus, sphæroideis, in maculas inæquales, subinde orbiculares, plus minus dense aggregatis, astomis; ascis cylindraceo-clavulatis, 28 \approx 6; sporidiis ovoideo-oblongatis, uniseptatis, 8 \approx 3. 1899

Hab. in foliis Pruni Padi in regione Aboënsi.

- *82. **Sphærella arbuticola** Peck in Torr. bot. Club. 1883, p. 75. — Maculicola; maculis suborbicularibus, inæqualibus, nigrescentibus vel cinereis, brunneis, paginam inferiorem foliorum occupantibus; peritheciis minutis, nigris, epiphyllis, sparsis vel in glomerulos 6428

minutos congestis, epidermidem perforantibus; ascis oblongis, sæpe sursum acutis, 40-125 μ . longis; sporidiis stipatis, acutis, uniseptatis, 11-15 \approx 4, hyalinis.

Hab. in foliis emortuis Arbuti Menziensii, Santa Cruz in California (C. G. PRINGLE).

- * 83. **Sphærella corylina** Karst. in Hedw. 1884, n. 1, p. 4. — Rev. 6429
atque Synop. Ascom. fenn. p. 64. — Peritheciis hypophyllis, per totam paginam dispersis, initio epidermide tectis, dein liberis, sub-superficialibus, conoideo-sphæroideis, poro pertusis, atris, 60-80 μ . diam.; ascis cylindræco-elongatis, vulgo curvulis, sæpe prope medium leviter inflatis, 30-44 \approx 8; sporidiis 8:nis, distichis, oblongatis vel ovoideo-oblongatis, uniseptatis, eguttulatis, 8-14 \approx 2-4.

Hab. in foliis Coryli Avellanæ ad Mustiata Fennicæ.

- * 84. **Sphærella Gallæ** Ell. et Ev. in Torr. bot. Club. 1884, p. 75. — 6430
Peritheciis minutis, sparsis vel 2-3 gregariis, epidermidem rum-pentibus; ascis 40-45 \approx 10, sessilibus; sporidiis stipatis, bi-tristi-chis, subtilibus, clavatis, 1-septatis, 12-15 \approx 3.

Hab. in gallis Vaccinii corymbosi, Newfield Amer. bor.

- * 95. **Sphærella Cercidis** Pass. in Erb. Critt. Ital. Ser. II, n. 1463. 6431
— Peritheciis hypophyllis, sparsis vel laxè gregariis, punctiformibus, tectis dein denudatis, atris; ascis forma et longitudine variis, cylindricis, clavatis aut medio ventricosis; sporidiis oblongo-cu-neatis, medio tenuissime septatis, vix vel minime constrictis, 17-20 \approx 7 $\frac{1}{2}$.

Hab. ad folia strata Cercidis japonicæ in Horto Botanico Parmensi Ital. bor. (PASSERINI).

- * 105. **Sphærella pandurata** Ell. et Ev. in Bull. Torr. bot. Club. 1883, 6432
p. 117. — Hypophylla; peritheciis globosis, 0,17-0,25 mm. diam., parenchymate foliorum immersis, ostiolo papilliformi minuto, epidermide nigrescente tecto, rotundato, prominulis; ascis oblongo cylindræcis, 50 \approx 7; sporidiis distichis, fusiformibus, 4-nucleatis, flaveolis, medio constrictis, loculis ad septum turgidoribus, 10-12 \approx 3.

Hab. in foliis delapsis, Plainfield Amer. bor. (G. F. MESCUTT).

- * 106. **Sphærella conigena** Peck in 33 Rep. St. Mus. p. 34. — Peri- 6433
theeciis minutis, erumpentibus, nigris; ascis latis, obovatis vel sub-clavatis, sæpe apice acutis; sporidiis oblongis vel subcylindræcis, demum uniseptatis, 25-40 μ . longis.

Hab. in conis Thujae in montibus Hederberg Amer. bor.

- * 111. **Sphærella sordidula** Speg. Fungi Guar. Pug. I, n. 217. — Pe- 6434
ritheciis hinc inde sparsis v. paucis laxè aggregatis, matrice cir-

cum circa pallescente v. albicante (ceterum sordide grisea) insidentibus, tectis, vix prominulis, ostiolo minuto, epidermidem perforante, exerto donatis, udis globulosis, siccis cupulato-collapsis, 80-100 μ . diam., atris, membranaceis, contextu parenchymatico, pellucide fuligineo, ostiolo subcarbonaceo, opaco; ascis ovatis v. obclavatis, crassis, apice obtuse rotundatis, basi abrupte, minute brevissimeque stipitatis, 30-35 \approx 12-15, aparaphysatis, 8-sporis; sporidiis di-tri-stichis, elliptico-elongatis, utrinque rotundatis, 12-14 \approx 4-5 medio 1-septatis, leniter constrictis, loculis 2-guttulatis, æqualibus v. supero vix majore, hyalinis.

Hab. ad siliquas exsiccatas adhuc pendulas Cassiæ speciei cujusdam in dumetis prope Guarapi Bras.

- * 112. **Sphærella fusispora** Fuck. in Reis. nach Nordpolarm. et Oud. 6435
 Contr. Fl. Myc. Now. Semlja pag. 151, tab. II, fig. 4. — Peritheciis in gregibus laxis sub epidermide, nidulantibus, demum totis liberis, minutis, aterrinis, globosis, ostiolo papillæformi, truncato, perforato; ascis fasciculatis, oblongis, sessilibus, 8-sporis, 60 \approx 20; sporidiis oblique imbricato-distichis, fusiformibus, subrectis, utrinque obtusiusculis, inæqualiter didymis, ad septum parum constrictis, loculis 1-2-guttulatis, 24 \approx 6, hyalinis.

Hab. in foliis et caulibus exsiccatis Ranunculi pygmæi, Nowaja Semlja.

- * 113. **Sphærella nivalis** Oudem. Contr. à la Flore myc. de Nowaja 6436
 Semlja p. 11, t. I, f. 8. — Peritheciis minutis, primitus infra epidermidem absconditis, postremo vertice prominulis, poro pertusis, quoad structuram tenerrimis; ascis cylindræcis, brevissime pedicellatis, 90 \approx 9, 8-sporis; sporidiis monostichis, hyalinis, oblongis, 1-septatis, loculo superiore subampliore, 11-12 \approx 4-5.

Hab. in Ranunculo nivali var. sulphureo, Nowaja Semlja.

- * 115. **Sphærella Thalictri** Ell. et Ev. in Journ. of Myc. 1885, p. 44. 6437
 — Peritheciis hypophyllis, 90 μ . diam., contextu crasse parenchymatico, sursum late pertusis, hemisphæricis, in siccitate complanatis, sparsis in maculis parvis, 2-3 mm. diam., rotundis, margine obscuro cinctis; ascis sessilibus, 36 \approx 7; sporidiis stipatis, ovato-oblongis, granulosis, nucleatis, (demum uniseptatis?) 12-16 \approx 3-4 $\frac{1}{2}$.

Hab. in foliis Thalictri dioici, Parsippany Americæ borealis (W. TRELEASE).

- * 117. **Sphærella Macowiana** Winter Ex. Pilze p. 9, in Flora 1884. — 6438
 Peritheciis densissime gregariis, greges forma varia, a nervis li-

mitatos, maculiformes, cinereos, angulatos formantibus, minutissimis, valde prominentibus, globosis, atris, ostiolo punctiformi, 70 μ . diam.; ascis oblongo-cylindraceis, interdum deorsum parum inflatis, sessilibus, 8-sporis, 35-44 \approx 9-11; sporidiis distichis, oblongis, utrinque parum attenuatis, uniseptatis, ad septum vix constrictis, sæpe inæquilateralibus et parum curvatis, hyalinis, 12-14 \approx 3,5.

Hab. in foliis languidis Melianthi majoris in Promontorio Bonæ Spei Afr. austr. (MAC OWAN).

- * 121. **Sphærella densa** Rostrup Islands Svampe p. 8. — Peritheciis 6439
dense stipatis, amphigenis, rufo-fuscis, sphæroideis; ascis oblongo-clavatis, 38-42 \approx 7-9, 8-sporis; sporidiis distichis, fusoido-oblongatis, 1-septatis, hyalinis, 12-14 \approx 4, paraphysibus nullis.

Hab. in foliis Arenariæ norvegicæ in insula Islandia.

- * 125. **Sphærella adusta** Fuck. in Reis. nach Nordpolarm. et Oud. 6440
Contr. Fl. Myc. Now. Seml. p. 151, tab. II, fig. 3. — Peritheciis in maculis fusco-nigris, rugulosis, adustis, quandoque totum folium caulemque occupantibus, gregariis, minutis, atris, depresso globosis, ostiolo prominulo, papilliformi, perforato; ascis fasciculatis, sessilibus, 8-sporis, 56 \approx 16; sporidiis distichis, oblongo-clavatis, rectis, antice obtusissimis, basi acuminatis, valde inæqualiter didymis, septo in sporidii angustiore parte, ad septum non constrictis, hyalinis, 16 \approx 6.

Hab. in foliis et caulibus siccis Epilobii latifolii, Nowaja Semlja.

- * 127. **Sphærella Desmodii** Winter in Journ. of Myc. p. 121 — Peri- 6441
theciis epiphyllis, in maculis magnis, valde irregularibus, arescendo griseis fuscidulisve, margine obscuriori, determinato, varie flexuoso et sinuato circumdatis, gregariis, minutis, hemisphæricis, poro simplici pertusis, atris, 70-90 μ . d.; ascis oblongo-cylindraceis, sursum parum attenuatis, vertice rotundatis, sessilibus, 8-sporis, 35-40 \approx 6-7; sporidiis distichis, cymbiformibus v. fusoides, sæpe plus minusve curvatis, medio uniseptatis, sed non constrictis, hyalinis, 10,2-12 \approx 2,5-3,5.

Hab. ad folia viva Desmodii canescentis, Missouri.

- * 128. **Sphærella Linhartiana** Niessl in Linhart Fungi Hungar. n. 461. 6442
— Peritheciis numerosissimis, dense disseminatis, epidermide innatis, globosis, ostiolo punctiformi, atris, 100-130 μ . diam.; ascis fasciculatis, clavatis, 45-60 \approx 9-12 et interdum ultra latis, 8-sporis; sporidiis distichis, oblongo-fusiformibus, sæpe curvatis, utrinque

obtusis, medio uniseptatis, sed vix constrictis, demum guttulis quaternis, hyalinis, 10-12 \approx 3-4.

Hab. in caulibus siccis Meliloti albi in Hungaria. — *Sph. leptasca* affinis sed ascis amplis, sporidiis distichis distinguenda.

- * 129. **Sphærella consociata** Rehm in Hedwigia 1885, p. 238. — Peritheciis plerumque gregariis, subimmersis vel sessilibus, globosis, in papillulam acutam protractis, haud perspicue perforatis, atris, glabris, 0,2-2,5 mm. diam., parenchymatice fusce contextis; ascis ellipticis vel pseudo-piriformibus, latis, basi sessilibus, crassis, 8-sporis, 50-60 \approx 18-21; sporidiis 3-4-stichis, clavatis, subobtusis, 2-cellularibus, cellulis æqualiter longis, medio haud constrictis, rectis, hyalinis, 18-20 \approx 5; paraphysibus nullis. 6443

Hab. ad caules siccos Trifolii pallescentis ad glaciem æternam montis Ortler propæ Sulden in Tirolia (DR. REHM).

130. **Sphærella nerviseda** Speg. — Sacc. Syll. I, p. 504, var. **microspora**: Sacc. Misc. Myc. II, p. 22. — Sporidiis clavulatis quam in typo brevioribus, 10-12 \approx 4,5 in ascis clavulatis, 50 \approx 10, oblique monostichis. 1948

Hab. in foliis emortuis Orobi verni, sociis spermogoniis: *Septoria orobicola* et *Phyllosticta orobella* pr. Neuchatel Galliæ (MORTIER).

- * 132. **Sphærella Potentillæ** Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 15, t. I, f. 15. — Peritheciis in foliis aridis hospitantibus.....; ascis inæquilateralibus, oblongo-clavatis, paraphysatis, 70-80 \approx 14, membrana ubique æquali, vulgo 20 in eodem perithecio; sporidiis distichis, rectis, hyalinis oblongo-obovatis, 1-septatis, 18-23 \approx 5-7, parte dimidia anteriore latiore, rotundata, posteriore multo angustiore, ad altitudinem septi paululum constrictis. 6444

Hab. in foliis aridis Potentillæ fragiformis, Nowaja Semlja.

- * 133. **Sphærella Earliana** Winter in Journ. of Myc. p. 101. — Peritheciis amphigenis, densissime stipatis, greges parvos, angulato-rotundatos, 1-2 mm. latos, nigros formantibus, minutissimis, globosis, poro simplici pertusis, atris, 60-70 μ . diam.; ascis fasciculatis e basi subventricosa sursum parum attenuatis, brevissime stipitatis, 8-sporis, 26-30 \approx 7; sporidiis inordinatis clavatis, medio uniseptatis, non constrictis, hyalinis, 8 \approx 2; paraphysibus nullis. 6445

Hab. in Fragaria culta, Anna Amer. bor. (F. S. EARLE). — Ascis et sporidiis a *S. Fragariæ* distinguenda.

- * 137. **Sphaerella Octopetalæ** Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 14, t. I, f. 14. — Peritheciis epiphyllis, subgregariis, minutissimis 50 μ . diam., atris, absque ullo macularum vestigio, parte basilari in foliorum parenchymate absconditis, apicali vero supra epidermidem prominente, e parenchymate laxo, fusciscenti-nigro contextis; ascis maturis, 70-80 \approx 25, membrana sursum præsertim gelatinoso-incrassatis, 8-sporis, paraphysisibus deficientibus; sporidiis hyalinis, di-vel tri-stichis, oblongo-obovatis, 21 \approx 7, septatis, ad septum levissime constrictis, parte dimidia antica latiore, subhemisphærica, circa 9 μ ., postica paululum angustiore, magis oblonga, circa 12 μ . longa.

Hab. in foliis Dryadis octopetalæ, Nowaja Semlja.

- * 146. **Sphaerella maculicola** Wint. in Hedwigia 1885. — Peritheciis gregariis in macula determinata, irregulari, pallide fusca, linea obscuriori limitata epiphyllis, immersis, globosis, membranaceis, atris, poro pertusis; 100 μ . latis; ascis elongato-oblongis, fere fusiformibus, h. e. utrinque longe attenuatis, substipitatis, 8-sporis, 50-60 \approx 9-12; sporidiis conglobatis, elongato-subclavatis, utrinque attenuatis et rotundatis, medio uniseptatis, sed non constrictis, 14-16 \approx 3,5, hyalinis.

Hab. ad folia Helicrysi (an petiolati? vel nudifolii?) Somerset-East, Promont. Bonæ Spei (Mac Owan).

- * 152. **Sphaerella Pulviscula** Cocc. et Mor. Enum. Fung. della provincia di Bologna Cent. III, p. 27, t. II, f. 36-30. — Peritheciis globosis, perpusillis, 60-72 μ . d., crebre sparsis, granuliformibus, atris, nitidis; ascis brevibus, obovatis, subsessilibus, 22-26 \approx 9-11, 8-sporis; sporidiis subtristichis, navicularibus, medio septatis, hyalinis, 8-11 \approx 2-2½; paraphysisibus nullis.

Hab. in caulibus et foliis Dianthi brachyanthi in Pyrenæis Galliæ.

- * 153. **Sphaerella subnivalis** Rehm in Hedwigia 1885, p. 237. — Peritheciis gregariis, in foliis dealbatis sessilibus, fusco-nigris, globosis, poro minutissimo pertusis, 0,15 mm. diam., parenchymatice fusce contextis, glabris; ascis latis, basi sessilibus, sursum attenuatis, crassis, 8-sporis, 40-45 \approx 9; sporidiis clavatis, 2-cellularibus, cellula superiore latiore, plerumque utrinque 2-nucleolatis, rectis, hyalinis, distichis, 12-15 \approx 3-4,5; paraphysisibus nullis.

Hab. ad folia sicca, vix nive liberata Cerastii latifolii juxta glaciem æternam montis Ortler prope Salden in Tirolia (D. Rehm).

158. **Sphaerella Eryngii** (Fr.) Cooke Handb. n. 2761, Sacc. Syll. I, 1976

- p. 511, Winter in Hedwigia 1886, p. 19. — Asci 40-44 \approx 7; sporidia cylindrico-fusiformia, 19-21 \approx 2,5.
- *165. **Sphærella Enotheræ** Ell. et Ev. in Journ. of Myc. 1885, p. 151. 6450
 — Peritheciis erumpentibus, hemisphæricis, 90-100 μ . diam., sursum late pertusis, dense gregariis et sæpe in series latas in valvis capsularum dispositis; ascis oblongis, sursum leniter attenuatis, basi abrupte contractis atque in pedicellum breve desinentibus; sporidiis distichis, forma variis, oblongis vel ovato-oblongis, 10-15 \approx 3, nucleatis vel oblongo-fusiformibus, vix curvulis, obscure 1-septatis, 15-20 \approx 3-3,5.
Hab. in capsulis *Enotheræ* biennis, Newfield Amer. bor.
166. **Sphærella depazeæformis** (Auersw.) Sacc. Syll. I, p. 513, Winter 1984
 in Hedwigia 1886, p. 20. — Huc ducenda sec. Winter (Hedw. l. c.)
Laestadia Oxalidis Sacc. Syll. I, p. 429, n. 1635.
- *169. **Sphærella leucophæa** Ellis et Kellerm. in Journ. of Myc. 1886, 6451
 p. 3. — Peritheciis punctiformibus, minutis, 70-100 μ . diam., in parenchymate foliorum immersis, ostioli perforatis, longiusculis; ascis oblongis, sessilibus vel breviter pedicellatis, 75-80 \approx 7-8; paraphysibus nullis; sporidiis distichis, fusiformibus, 1-septatis, septo leniter constrictis, 18-20 \approx 3 $\frac{1}{2}$, hyalinis.
Hab. in foliis emortuis *Baptisæ leucophææ*, Manhattan, Kansas Amer. bor. — Certe a *Sph. baptisiæcola* distincta.
171. **Sphærella pinodes** (Berk. et Blox.) Niessl, Sacc. Syll. I, p. 514, 1989
 Winter in Hedwigia 1885, pag. 20. — Perithecia numerosissima, dense sparsa, poro pertusa, tenuissime membranacea, sub microscopio fusca, 100-140 μ . diam.; asci oblongo-cylindracei, sessiles vel breviter stipitati, sæpe basi parum incrassati, 58-62 \approx 12; sporidia subdisticha, oblonga, utrinque parum attenuata, sæpe inæquilateralialia, 14-16 \approx 5.
- *171. **Sphærella vesicaria** Pass. in Erb. Critt. It. Ser. II, n. 1367. 6452
 — Peritheciis superficialibus, sparsis vel subgregariis, subglobosis, atris, ostiolo papillari, cellulis amplis, fuscis contextis; ascis oblongis, basi saccatis, breviter et abrupte stipitatis, superne attenuatis, 75 \approx 25; sporidiis subtristichis oblongis, medio septatis, non v. vix constrictis, loculo altero leniter attenuato, hyalinis, 17,5 \approx 7,5.
Hab. in leguminibus aridis *Coluteæ* arborescentis, Parma Ital. bor.
- *172. **Sphærella calycicola** Pass. in Erb. Critt. It. Ser. II, n. 1462. 6453
 — Peritheciis solitariis vel gregariis, subglobosis, atris; ascis ovato-piriformibus, apice rotundatis, basi brevissime abrupteque stipita-

tis, 37-38 \approx 22; sporidiis triserialibus, oblongo-spathulatis, prope medium septatis, non constrictis, hyalinis, 20 \approx 5.

Hab. ad dentes calycinis aridos Trifolii angustifolii prope Parma Ital. bor. (PASSERINI).

- * 176. **Sphaerella xanthicola** Cooke et Harkn. in Grevillea XIV, p. 8. 6454
— Peritheciis punctiformibus, prominulis, atris, in maculas ellipticas congestis, initio epidermide tenui velatis; ascis obclavatis, sessilibus, octosporis; sporidiis ellipticis, uniseptatis, vix constrictis, utrinque rotundatis, hyalinis, 12-15 \approx 5-6.

Hab. in caulibus Xanthii in California (HARKNESS).

178. **Sphaerella nebulosa** (Pers.) Sacc. Syll. I, pag. 515. *var.* **Hieracii** 1906
Sacc. et Briard in Rev. Myc. 1885. — Peritheciis numerosis, minutis, $\frac{1}{7}$ - $\frac{1}{6}$ mm. diam., in maculis griseis sparsis vel gregariis; ostiolis prominulis; ascis sessilibus, octosporis, 40-52 \approx 10-12; sporidiis oblongis, subclavæformibus, apice parum attenuatis, uniseptatis, loculo superiore majore, 16-20 \approx 4-4,5, hyalinis.

Hab. in caulibus siccis Hieracii, Troyes Galliae (BRIARD). —

Var. **Scrophulariæ** Sacc. et Briard in Revue Myc. 1885: ascis cylindræo-clavatis, breviter stipitatis, octosporis, 40-48 \approx 8-10; sporidiis distichis, oblongo-fusiformibus, obtusiusculis, 1-septatis, loculis inæqualibus, superiore majore, 12-15 \approx 4,4-5, minute guttulatis, hyalinis. In caulibus exsiccatis Scrophulariæ aquaticæ, Troyes Galliae (BRIARD). — *Var.* **Euphorbiæ** Sacc. et Briard in Revue Mycol. 1885: ascis oblongis, subirregularibus, medio inflatis, sessilibus, octosporis, 36-40 \approx 10-12; sporidiis stipatis, 1-septatis loculo superiore crassiore, obtuso, 13-14 \approx 4-5, hyalinis. In ramulis Euphorbiæ palustris, Troyes Galliae (BRIARD).

- * 182. **Sphaerella baptisiæcola** (Cooke) Berl. et Vogl. *Sphaeria Baptisiæcola* Cooke in Grevillea XIII, p. 110. — Tecta, punctiformis, caulicola; peritheciis tenuibus, minimis, vix prominulis, tectis; ascis clavatis; sporidiis biserialibus, sublanceolatis, uniseptatis, hyalinis, 15 \approx 3,5. 6455

Hab. in Baptisia leucantha in Car. austr.

- * 188. **Sphaerella Pachypleuri** Fuck. in Heuglin Reisen Nordpol. 6456
vol. III, et Oudemans Contr. Flor. Myc. Now. Seml. p. 6, tab. II, fig. 2. — Peritheciis gregariis sparsisve, minutis, aterritis, semiliberis, e basi globosa antice obtuse conicis, ostiolis demum perforatis; ascis fasciculatis, oblongis, sessilibus, 8-sporis, 52 \approx 10; sporidiis distichis, oblongo-subclavatis, rectis, inæqualiter didymis, loculis guttulatis, hyalinis, 16 \approx 4; spermatiis inter ascos in spo-

rrophoris brevioribus ortis, anguste fusiformibus, curvatis, 2-4-guttulatis seu obscure 2-3-septatis, antice abrupte ciliatis, cilio spermatici dimidiam partem superante, 24 \approx 2.

Hab. in Pachypleuro alpino exsiccato in insula Nowaja Semlja.

*191. **Sphærella brionnensis** Sacc. et Malbr. Fung. Gall. Ser. V, n. 2159. 6457

— Peritheciis in foliis arescendo expallentibus, subsparsis, sæpius epiphyllis, punctiformibus, globulosis, papillulatis, initio epidermide tectis, nigris; ascis tereti-fusoideis, subsessilibus, aparaphysatis, 35-45 \approx 6-7, octosporis; sporidiis oblongo-fusoideis, subrectis, 15-18 \approx 4-5, 4-guttulatis, medio dein septatis, non v. vix constrictis hyalinis.

Hab. in foliis arescentibus Angelicæ silvestris, Brionne, Eure Gallia.

*199. **Sphærella Papaveris** Fuck. in Heuglin Reisen Nordpol. vol. III 6458

et Oudem. Contr. Fl. Myc. Now. Seml. p. 6, tab. II, f. 2. — Peritheciis in foliorum nigrescentium pagina superiore et inferiore gregariis, et fere foliorum totam superficiem occupantibus, minutissimis, aterrimis, conicis; ascis fasciculatis, oblongis, 8-sporis, 56 \approx 24; sporidiis conglobatis, oblongo-clavatis, utrinque obtusis, rectis, inæqualiter didymis, 22 \approx 8-10, hyalinis.

Hab. in foliis exsiccatis Papaveris nudicaulis in insula Nowaja Semlja.

*203. **Sphærella polyspora** (Johans.) Berl. et Vogl. *Mycosphærella* 6459

polyspora Johans. Svamp. fran. Island. p. 164, tab. XXIX, fig. 7.

— Peritheciis sparsis vel gregariis, globoso-conoideis, erumpentibus, atris, 80-120 μ . diam.; ascis, aparaphysatis, ovoideis sæpe inæquilateralibus, sessilibus, 16-sporis, 36-44 \approx 13-18; sporidiis conglobatis, ovato-clavulatis, utrinque rotundatis, medio vel prope medium septatis, guttulatis, rectis, hyalinis, 11-14 \approx 4-6, septo vix constrictis.

Hab. in pedunculis et fructibus aridis Azaleæ procumbentis Eskifjördur Islandiæ orient. — Novi generis typus videtur.

*204. **Sphærella incisa** Ell. et M. in Journ. of Myc. 1885, pag. 99. 6460

— Peritheciis membranaceis, gregariis, globosis vel depresso-globosis, $\frac{1}{4}$ mm. diam., aparaphysatis, epidermide nigrefacta tectis; sporidiis fusiformibus, utrinque appendicula acuta præditis, endochromate distincte bipartito, pallide luteis, 40-50 \approx 3-4.

Hab. in petiolis emortuis Sabalis serrulatæ, New Florida Amer. bor.

- *230. **Sphærella parallelogramma** Rehm in Hedwigia 1885, p. 239. 6461
 — Peritheciis minutissimis, globosis, atris, gregarie confertis, in maculis epidermidis parallelogrammiformibus, griseis vel griseo-atris, 2-5 mm. long., 1-2 mm. lat., secundum longitudinem culmorum conspicuis, sessilibus, primitus immersis, glabris, parenchymaticæ fusce contextis; ascis pseudo-piriformibus, latis, basi sessilibus, crassis, 8-sporis, 25-27 \approx 9; sporidiis polystichis, fusiformibus, acutis, rectis, 2-cellularibus, cellulis æqualibus, sæpe binucleatis, hyalinis, 10-12 \approx 2; paraphysibus nullis.
Hab. ad culmos siccos gramineos prope glaciem æternam montis Ortler prope Sulden in Tirolia (Dr. Rehm).
231. **Sphærella perexigua** Karst. — Sacc. Syll. I, pag. 528, var. **minima** (Johans.) Berl. et Vogl. *Mycosphærella perexigua* var. *minima* Johans. Svamp. fran. Island pag. 166. — Omnibus partibus minor; peritheciis subgregariis, strias formantibus, 270-370 μ . diam.; ascis 20-27 \approx 10-14; sporidiis conglobatis, rectis vel curvulis, ad septum non constrictis, 11-16 \approx 2-3,5, (raro 20 μ . longis). 2049
Hab. in foliis et culmis Scirpi cæspitosi, Hofios Islandiæ borealis.
- *236. **Sphærella Orchidearum** Karst. Rev. atque Synop. Ascom. fenn. 6462
 p. 68. — Peritheciis sparsis vel gregariis, hinc inde aggregatis, epidermide tectis, lentiformibus, atris nitentibus, sæpe basi hyphis fuligineis, radiantibus obsitis, demum poro pertusis, 2 mm. circ. lat.; ascis cylindræo-clavatis; sporidiis ignotis; paraphysibus nullis.
Hab. in caulibus aridis *Gymnadeniæ conopsea* in Mustiala.
- *237. **Sphærella bacillifera** Karst. in Hedw. 1883, n. 12, p. 31. — Rev. 6463
 atque Synop. Ascom. fenn. p. 68. — Peritheciis sparsis vel subgregariis, subcutaneis, subsphæroideis, glabris, ostiolo brevi, erumpente, atris, exiguis; ascis elongato-clavatis, curvatis, apice rotundatis, vix stipitatis, 80-105 \approx 20-24; sporidiis octonis, tristichis, bacillari-fusoideis, curvulis, uniseptatis, chlorino-hyalinis, 45-60 \approx 6.
Hab. in foliis *Scheuchzeriæ palustris* emortuis in parœcia Tammela Fenniæ.
- *239. **Sphærella caricicola** Fuck. — Winter in Hedwigia 1886, p. 19, 1642
Laetadia caricicola Sacc. Syll. I, n. 430. — Asci 40-44 \approx 10-11; sporidia bicellularia, utrinque rotundata, ad septum constricta, hyalina, 14 \approx 4.
- *240. **Sphærella platytheca** Karst. in Hedw. 1883, n. 12, p. 31. — Rev. 6464
 atque Synop. Ascom. fenn. p. 66. — Peritheciis?; ascis sessilibus v. brevissime stipitatis, inferne inæqualiter saccato-inflatis (ut in *Sph.*

Tassiana), 65-80 \approx 20-28; sporidiis 8: nis, ovoideo-oblongatis, medio vel paullo extra medium uniseptatis, ad septum vix vel leviter constrictis, vulgo guttulatis, 22-35 \approx 7-10.

Hab. in foliis emortuis Tiliæ plâtyphyllæ in Mustiala. — Forte cum *Sphærella Tassiana* conjungenda.

- *241. **Sphærella exitialis** Mori Malatt. del Frum. (Giorn. Bot. Ital. 6465
1886, n. 1. p. 37). — Peritheciis amphigenis, sparsis, globulosis, ostiolo aliquantulum magno, primum epidermide tectis dein erumpentibus, 75-90 μ . diam.: ascis cylindracæis, leviter incurvatis, sæpe in parte inferiore ventricosis, breviter pedicellatis, 45-54 \approx 16-20; sporidiis subdistichis, hyalinis, incoloribus vel colore luteolo-pallido, cylindrico-ovoidalibus, uniseptatis, 14-16 \approx 5-6.

Hab. in foliis Tritici sativi in Italia bor.

245. **Sphærella aquilina** Fr. — Sacc. Syll. I, pag. 532. *var. infera* 6466
Karst. in Hedw. 1884, n. 1, p. 4, Rev. atque Synop. Ascom. fenn. pag. 68. — A typo recedit peritheciis hypophyllis; ascis 42-58 \approx 8-9, sporidiisque ad septum vix vel leviter constrictis, 8-12 \approx 2-4.

Hab. in frondibus Pteridis aquilinæ emortuis ad Mustiala Fennicæ.

- *246. **Sphærella Gastonis** Sacc. in Rev. Myc. 1885, p. 158. — Peri- 6467
theeciis velatis, punctiformibus laxe gregariis; ascis fusoides, sessilibus, 40 \approx 10; sporidiis oblongis, 1-septatis, 7-8 \approx 2-3, hyalinis.

Hab. in foliis Cocos nuciferæ in insula Tahiti.

- *249. **Sphærella Trichomanis** Cooke in Grevill. XIV, pag. 12. — 6468
Sparsa vel subcæspitosa; peritheciis semiimmersis, punctiformibus, atris, cuticulâ tenui primo tectis, punctato-pertusis; ascis clavatis, 30 \approx 5, octosporis; sporidiis cylindricis, utrinque rotundatis, uniseptatis, hyalinis, 8 \approx 2.

Hab. in frondibus vivis Trichomanis prope Samoa in Australia.

- *251. **Sphærella parasitica** Wint. in Hedw. 1886, p. 19. *Epicyma-* 6469
tia Winteri Kunze Fungi selecti exsicc. n. 65. — Peritheciis gregariis, minutissimis, globoso-piriformibus, vertice pertusis, tenuissime membranaceis, glabris, fuscis, 70 \approx 50-60; ascis elongato-ovoideis vel oblongis, utrinque attenuatis, sessilibus, 8-sporis, 24-32 \approx 10-12; sporidiis inordinatis, conglobatis, bacilliformibus, anguste clavatis, utrinque rotundatis, hyalinis, bicellularibus, haud constrictis, 14-18 \approx 3,5.

Hab. in Cenangio fuliginoso parasitans in Germania.

Observatio

Ad hoc genus relatæ sunt species sequentes in Sylloge sub aliis generibus militantes:

280. **Sphærella Himantia** (Pers.) Karst. Rev. p. 66, *Asterina Himantia* 2071
Syll. I, p. 761.

282. **Sphærella Oxalidis** Kirsch in Lot. 1856, 203; Berkeley et Br. 1635
Ceylon Fungi 1122, *Læstadia Oxalidis* Saccardo Sylloge Pyrenomycet. Vol. I, p. 429.

STIGMATEA Fr. — Sacc. Syll. I, p. 541.

* 5. **Stigmatea vexans** Wint. in Hedw. 1885, I. — Peritheciis in macula non determinata, ochracea vel fuscidula, epiphylla, gregariis, depresso-hemisphæricis, dimidiatis, crasse membranaceis, atris, ostiolo punctiformi, sed distincto pertusis, 180-230 = 96-105; ascis oblongis vel e basi ventricosa sursum parum attenuatis, membrana crassa præditis, sessilibus, 8-sporis, 58-78 = 24-32; sporidiis conglobatis, didymis, olivaceis, cellula superiori fere globosa, 12-14 = 12, cellula inferiori obconica, 9-9,5 = 7-9; paraphysibus non distinctis, mucilagineis.

Hab. ad folia viva Brayeræ anthelminthicæ, Abyssinia (КЕЕК).

* 12. **Stigmatea Armandi** Pat. in Rev. Myc. 1886, p. 83. — Peritheciis punctiformibus, nigris, globulosis; ascis subsessilibus, 42-45 = 12-15; paraphysibus linearibus; sporidiis uno apice attenuatis, 12-15 = 3-4, hyalinis vel pallide viridulis.

Hab. in petiolis et foliis Clematidis Armandi, Thibet Orient. (AB. DAVID).

* 14. **Stigmatea mucosa** Pat. in Rev. Myc. 1886, pag. 82. — Peritheciis minutis, primum epidermide tectis, demum, ea rupta, prominulis, nigris, rotundis, vertice poro albo pertusis; ascis sessilibus, octosporis, 35-45 = 12-15; sporidiis ovoideis, hyalinis, continuis, 12-15 = 4-5; pseudo-paraphysibus gelatinosis, ramosis, massa mucosa ascos obvallantibus.

Hab. in foliis emortuis Agrostidis albæ, Thibet Oriental. (AB. DAVID).

DIDYMELLA Sacc. Syll. I, pag. 545.

* 6. **Didymella Fuchsiae** Cooke et Hark. in Grevillea XIV, pag. 9. — 6473

Sparsa vel subgregaria; peritheciis globoso-depressis, atris, epidermide tectis, ostiolo conico, prominulo emergente; ascis cylindrico-clavatis, octosporis; sporidiis biserialibus, rectis curvulisve, uniseptatis, nec constrictis, binucleatis, hyalinis, 15 \approx 5.

Hab. in caule Fuchsiae in California (HARKNESS).

- *13. **Didymella Salicis** Grove in litt. — Peritheciis peridermio infossis, sparsis v. binis ternisque adnatis v. gregariis, globulosis, dein subdepressis, atris, primo epidermide pustulatim tumida tectis dein ea lacerata emergentibus et supra evanidâ nudis, papillatis, $\frac{1}{3}$ mm. diam.; ascis clavatis, interdum medio inflatis, vix infra attenuatis, subsessilibus, apice rotundatis, octosporis, 60-70 \approx 11-13 μ . d.; paraphysibus non visis; sporidiis distichis, oblongis, curvulis, utrinque obtusis, granulosis ideoque levissime subluteolis, continuis, subinde 2-3-guttulatis, dein senio uniseptatis et medio subconstrictis, 16-20 \approx 5.

Hab. in ramis Salicis, Sutton Coldfield, prope Birmingham Britanniae.

- *25. **Didymella nigrificans** Karst. in Hedw. 1884, n. 1, p. 3. — Rev. atque Synop. Ascom. fenn. pag. 60. — Peritheciis densissime congestis, cuticula nigrificata, demum fissa tectis, subsphæroideis, basi cupulato-collapsis, pertusis, atris, glabris, circ. 2 mm. diam.; ascis cylindræis, stipitatis, pseudo-paraphysatis, 70-100 \approx 6; sporidiis octonis, monostichis, oblongatis vel ellipsoideis, 1- rarissime 3-septatis, eguttulatis, chlorino-hyalinis, nitido strato mucoso obvolutis, 11-15 \approx 4-5.

Hab. in ramis emortuis Rosarum in Mustiala Fenniae.

- *26. **Didymella Rauii** (Ell. et Ev.) Berl. et Vogl. *Sphaeria Rauii* Ell. et Ev. in Torr. Bot. Club. 1883, p. 90. — Peritheciis sparsis vel 2-3 in cortice interiore coalitis, epidermide laxè tectis, demum eam ostiolo papillæformi perforantibus; ascis 30-35 \approx 6-7; paraphysibus gracilibus; sporidiis distichis, oblongo-fusoideis, 1-septato-constrictis, leniter curvulis, utrinque appendiculâ minuta præditis, luteolis, binucleatis, 7-8 \approx 5.

Hab. in ramis emortuis Rosæ cultæ, Bethlehem Amer. bor. (E. A. RAU).

- *29. **Didymella Melonis** Pass. in Erb. Critt. Ital. Ser. II, n. 1465. — Peritheciis sparsis, mycelio haud perspicuo, subglobosis, ostiolo acuto; ascis cylindrico-clavatis, 8-sporis, 62-80 \approx 10-12; sporidiis distichis, constrictis, hyalinis, localis biguttulatis 17,5 \approx 1,5, paraphysibus brevioribus, paucis.

- Hab.* ad caules, ramos petiolosque aridos Cucumeris Melonis prope Parma Italiæ bor.
- * 31. **Didymella Megarrhizæ** Cooke et Hark. in Grevillea XIV, p. 9. 6478
— Gregaria; peritheciis subconicis, atris, parvulis, nitidis, initio velatis, demum ostiolo acuto erumpentibus; ascis cylindrico-clavatis, octosporis; sporidiis ellipticis, uniseptatis, medio constrictis, rectis, hyalinis, 16-18 \approx 7.
Hab. in caule Megarrhizæ in California (HARKNESS).
- * 32. **Didymella Cookeana** Berl. et Vogl. *Sphæria Megarrhizæ* Cooke 6479 et Harkness in Grevillea XIII, p. 18. — Sparsa, tecta; peritheciis subglobosis, mox depressis, atris, ostiolo papillato; ascis subclavatis; sporidiis biserialibus, ellipticis, uniseptatis, vix constrictis, hyalinis, pallide luteolis, 12-14 \approx 6.
Hab. in Megarrhiza californica in California (HARKNESS). — «An a præcedente vere diversa?».
- * 36. **Didymella maculiformis** Winter in Hedw. 1884, pag. 169. — 6480
Peritheciis amphigenis, densissime stipatis, greges maculiformes, irregulares, magnos, sæpe confluentes, usque 6 cm. latos formantibus, immersis, punctiformibus, e basi globosa, brevissime conicis, poro simplici pertusis, epidermide circa verticem vix prominentem nigrefacta tectis; sporidiis distichis, cylindræis, inæqualiter didymis, ad septum parum constrictis, hyalinis, 26-30 \approx 5-6; ascis oblongis, brevissime stipitatis, sursum parum attenuatis, 8-sporis, 78-82 \approx 16-17, paraphysibus conglutinatis.
Hab. in foliis emortuis Proteæ grandifloræ prope Capetoum in Promontorio Bonæ Spei.
39. **Didymella Trifolii** (Fuck.) Sacc. Syll. I, pag. 554, *Didymosphæria Trifolii* Winter in Hedwigia 1886, pag. 24. — Sporidia 17-20 \approx 5-6.
41. **Didymella superflua** (Fuck.) Sacc. Syll. I, pag. 555, var. **Humuli** 2166
Karst. Symb. ad Myc. Fenn. XVI (1884), pag. 150. — Rev. atque Synop. Ascom. fenn. pag. 61. — Peritheciis gregariis, primum epidermide tectis, dein denudatis, ut plurimum cupulato-collapsis; ascis cylindræis, subsessilibus, 55-60 \approx 8-10; sporidiis 9-15 \approx 4-5.
Hab. ad caules exsiccatos Humuli Lupuli in Mustiala Fennicæ. — Status pycnidicus *Phoma sarmentella*.
- * 41. **Didymella inconspicua** Johans. Svamp. fran. Island. p. 167, tab. 6481
XXIX, fig. 8. — Peritheciis sparsis, parenchymate innatis, epidermide leviter nigrefacta tectis, ostiolo rotundo pertusis, atris, glabris, minutis, 95-135 μ . diam.; ascis octosporis, paraphysatis,

ovoideo-elongatis, sæpe inæquilateralibus, 55-65 \approx 18-20; sporidiis distichis vel conglobatis, ovoideo-elongatis, vel cuneato-elongatis, utrinque rotundatis, prope basim 1-septatis, non constrictis, guttulis, rectis, hyalinis vel chlorino-hyalinis, 20-23 \approx 7-9, loculo majore 15-18 μ . long., minore 4.5-6 μ . long.

Hab. in foliis emortuis Saxifragæ oppositifoliæ, Eski-fjördu Islandiæ bor.

- * 42. **Didymella Lupini** (Cooke et Hark.) Berl. et Vogl. *Sphæria Lu-* 6482
pini Cooke et Hark. in Grevillea XIII, p. 18. — Sparsa, punctiformis; peritheciis tectis, globoso-depressis, leniter papillatis; ascis clavatis; sporidiis ellipticis, uniseptatis, hyalino-flaveolis (immaturis?); cytoplasmate granuloso, 15-17 \approx 6-7.

Hab. in caule Lupini in California (HARKNESS).

- * 46. **Didymella nivalis** (Fuck.) Berl. et Vogl. *Sphæria nivalis* Fuck. 6483
in Die zweite deutsch. Nordpolarf pag. 93, tab. I, fig. 5. — Peritheciis sub foliorum cauliumque aridorum epidermide albescente nidulantibus, gregariis, minutis, globosis, aterrimis, ostiolo atro, acuto, prominulo; ascis oblongo-ovatis, utrinque attenuatis, tunica crassa præditis, 8-sporis, 94 \approx 20; sporidiis conglobatis subdistichisve, oblongis, inæqualiter didymis, utrinque obtusis, ad septum parum constrictis, hyalinis, 20 \approx 8.

Hab. in caulibus foliisque exsiccatis Epilobii latifolii, Kaiser-Franz-Josephs-Fjord, in Groenlandia.

- * 49. **Didymella Chamæjasmis** (Fuck.) Berl. et Vogl. *Sphæria Cha-* 6484
mæjasmis Fuck. in Reis. nach. Nordpolarf. III, et Oudem. Contr. Fl. Myc. Now. Seml. p. 152, tab. II, fig. 5. — Peritheciis gregariis, raro sparsis, sub epidermide nidulantibus, demum subliberis, minutis, atris, e basi globosa antice conicis, acutis; ascis oblongis, sessilibus, 8-sporis, 104 \approx 12; sporidiis oblique submonostichis, oblongis, rectis, utrinque obtusis, æqualiter didymis et ad septum facile diffractis, 16 \approx 6, hyalinis.

Hab. in caulibus exsiccatis Androsaces Chamæjasmis, Nowaja Semlja.

- * 56. **Didymella arctica** (Fuck.) Berl. et Vogl. *Sphæria arctica* Fuck. 6485
Die 2^e Deutsche Nordpolarf. II, 94, et Oudem. Contr. Fl. Myc. Now. Seml. p. 152, tab. III, fig. 4. — Peritheciis in macula cinerescente gregariis seu lineari-dispositis, erumpentibus, globoso-conicis, minutis, aterrimis, demum perforatis; ascis fasciculatis, oblongis, contortis, sessilibus, tunica crassa præditis, 72 \approx 17 octo-sporis; sporidiis imbricato-distichis, oblongis, utrinque parum at-

tenuatis, rectis, uniseptatis, ad septum constrictis, loculis inæqualibus, biguttulatis, $24 \approx 8$, hyalinis.

Hab. in foliis exsiccatis Poæ alpinæ, Nowaja Semlja.

- *70. **Didymella sphinctrinoides** (Zwackh.) Berl. et Vogl. *Didymosphæria sphinctrinoides* Winter in Hedwigia 1886, pag. 26, *Endococcus sphinctrinoides* Zwackh. in Flora 1864, p. 88. — Peritheciis ignotis; ascis cylindræis, angustis, 6-8-sporis, $74-78 \approx 10-12$; sporidiis bicellularibus, hyalinis, $18-22 \approx 6-7$; paraphysibus filiformibus. 6486

Hab. parasitice in Lecanora subfusca in Germania. — *Var. Immersæ* (Arnold) Berl. et Vogl. *Endococcus sphinctrinoides* var. *Immersæ* Arn. Lichen. Fragm. XVI, p. 25, tab. II, fig. 14 in Flora 1874, *Didymosphæria sphinctrinoides* var. *Immersæ* Winter in Hedw. 1886, pag. 26: peritheciis immersis, semiimmersis, minutis, globosis, atris; sporidiis oblongis, bicellularibus, hyalinis, $18 \approx 6$; ascis cylindræis, octosporis; paraphysibus distinctis, capillaribus. In thallo Lecidellæ immersæ in Germania.

- *71. **Didymella Ulothii** (Körber) Berl. et Vogl. *Didymosphæria Ulothii* Winter in Hedw. 1886, p. 26, *Cercidospora Ulothii* Körber, Parerga p. 466. — Peritheciis minutissimis, sparsis vel subgregariis, thallo omnino immersis, globosis, vertice tantum pertuso, demum depresso, parum prominulis, atris; ascis cylindricis, deorsum parum attenuatis, 4-8-sporis, $70-80 \approx 10$; sporidiis oblique monostichis, fusoideis, utrinque acutis, bicellularibus, hyalinis, $16-20 \approx 5$; paraphysibus numerosis, filiformibus. 6487

Hab. in thallo apotheciisque Placodii saxicoli in Germania.

- *72. **Didymella epipolytropæ** (Mudd.) Berl. et Vogl. *Didymosphæria epipolytropæ* Winter in Hedw. 1886, pag. 26, *Thelidium epipolytropum* Mudd. Manual of Brit. Lichen. pag. 298, *Cercidospora epipolytropæ* Arnold in Flora 1874, pag. 154. — Peritheciis sparsis, punctiformibus, minutissimis, immersis vel semiimmersis, globosis, atris, submicroscopio viridi-atris, vertice subdepresso et perforato; ascis breve cylindræis s. oblongo-clavatis, 4-8-sporis; paraphysibus distinctis, tenuibus, filiformibus, subramosis; sporidiis elongato-oblongis, fere fusiformibus bicellularibus, hyalinis, $15-18 \approx 4-5 \mu$. diam. 6488

Hab. in thallo discoque apotheciorum Lecanoræ polytropæ in Germania.

GNOMONIA Ces. et De Not. — Sacc. Syll. I, pag. 561.

* 4. **Gnomonia euphorbiacea** Sacc. et Briard in Rev. Myc. 1885. — 6489

Peritheciis sparsis, epidermide tectis, sphæroideis, basi cupuliformi vel excavata, $\frac{1}{5}$ - $\frac{1}{4}$ mm. diam.; ostioliis punctiformibus, epidermidem perforantibus eique adhærentibus; ascis oblongis, subfusiformibus, breviter stipitatis, octosporis, 72-88 \approx 12; sporidiis monostichis vel centro distichis, ovato-oblongis, obtusis, 1-septato-constrictis, biguttulatis, rectis vel leniter curvulis, 14-16 \approx 6, hyalinis.

Hab. in ramulis emortuis Euphorbiæ palustris, Troyes Galliæ (BRIARD).

* 5. **Gnomonia tithymalina** Sacc. et Briard in Rev. Myc. 1885. — 6490

Peritheciis numerosis, plus minusve gregariis, sub epidermide nidulantibus, sphæroideis, basi cupulata vel excavata, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; ostioliis obtusis, epidermidem leniter nigrefactam perforantibus; ascis cylindræo-fusiformibus, sessilibus, 40-44 \approx 8-10, octosporis; sporidiis oblique-distichis, oblongis, obtusis, 1-septato-constrictis, 4-guttulatis, rectis vel vix curvulis, 13-15 \approx 4-5, hyalinis.

Hab. in caulibus emortuis Euphorbiæ palustris, Troyes (BRIARD).

* 10. **Gnomonia petiophila** (Peck) Berl. et Vogl. *Sphæria petiophila* 6491

Peck in 35 Rep. St. Mus. Bot. 1884, pag. 144. — Peritheciis minutis, sparsis primum epidermide tectis, dein, ea perfossa, prominulis, ostiolo papillato vel breviter rostrato instructis, compresso-globosis, nigris; ascis subcylindræis, angustis, 40-45; sporidiis anguste fusiformibus, utrinque acutis, distichis, 12-15 \approx 2, quandoque 3-4-nucleolatis.

Hab. in petiolis emortuis Aceris spicati in montibus Helderberg Amer. bor.

* 19. **Gnomonia australis** Winter Contr. Fl. Myc. Lus. V, p. 14. — 6492

Peritheciis dense sparsis, hypophyllis, immersis, demum erumpentibus, globosis, membranaceis, fusco-atris, 120-200 μ . diam., rostro crasso, cylindrico, apice sæpe parum compresso et incrassato, usque 180 \approx 20, instructis; ascis fusoideo-elongatis, 8-sporis, 56-60 \approx 8-9; sporidiis oblongis, utrinque parum attenuatis et rotundatis, inæquilateralibus, bicellularibus, 4-guttulatis, hyalinis, ad septum constrictis, 14-16 \approx 4-4,3.

Hab. ad Apolloniæ canariensis folia arida, Coimbra Lusitaniæ (MOLLER). — Var. **Lauri** Wint. l. c.: peritheciis gregariis in macula indeterminata, obscuriore hypophylla; ascis deorsum in

pedicellum brevem attenuatis, usque 78 μ . longis; sporidiis interdum usque 18 μ . longis. Ad folia arida Lauri nobilis prope Coimbra Lusitaniæ.

- *20. **Gnomonia Sassafras** Ell. et Ev. in Torr. bot. Club. 1883, 6493 pag. 98. — Peritheciis erumpentibus, hemisphæricis, circiter 200 μ . diam., in superficie inferiore foliorum sparsis; ostiolis filiformibus, 200–250 μ . longis, contextu fibroso, sursum subhyalino, sæpe parum curvatis; ascis lanceolatis, curvis, aparaphysatis; sporidiis filiformibus, dilutissime flavidis, indistincte multinucleatis, 35–40 \approx 1,7.

Hab. in foliis emortuis Sassafras officinalis, Fairfield, Ohio America borealis (W. A. KELLERMANN). — «An *Linospora* ?».

- *29. **Gnomonia perversa** Rehm Ascomyc. fasc. XVI, p. 15. — Peritheciis minutissimis, sparsis, parenchymate foliorum immersis, nudo oculo vix punctiformiter paginam superiorem foliorum inquinantibus, conspicuis eamque non elevantibus, haud rostratis, vertice punctiformi, atris, parenchymatice fusce contextis; ascis fusiformibus, in stipitem tenerum elongatis, 8-sporis, 60 \approx 9; sporidiis haud acutatis, bicellularibus, utraque cellula binucleata, hyalinis, 12 \approx 3,5; paraphysibus nullis.

Hab. ad folia putrida Alni glutinosæ prope Königstein Saxonici (W. KRIEGER)

PHARCIDIA Körber Parerga Lichenol. p. 469 (Etym. *pharcis* ruga). — Perithecia sparsa vel leniter gregaria, semiimmersa vel demum emergentia, atra, punctiformia, minuta, globosa vel globoso-conoidea, poro pertusa. Asci 4–8-spori, oblongi vel fusoido-clavati. Sporidia cuneata, ovoidea vel fusiformia, 1–3-septata, hyalina.

1. **Pharcidia Schœreri** (Mass.) Winter in Hedwigia 1886, pag. 11. 2232 Sacc. Syll. I, pag. 571, *Epicymatia Schœreri* Mass. Syll. I, pag. 571. — Perithecia sparsa, primo plus minusve immersa, demum emergentia, globosa, verticem versus parum attenuata, poro pertusa, membranacea, fusca, minutissima, punctiformia; asci oblongi, utrinque subattenuati, 8-spori, 30–40 \approx 12; sporidia conglobata, oblonga, subclavata v. bacillaria, 1–3-septata, hyalina, 12–14 \approx 3–3,5; paraphyses mucosæ, indistinctæ. — *Var.* **Croceæ** Arnold (in Solorina crocea): sporidiis 12 \approx 2–3.
2. **Pharcidia parvipuncta** (Stein) Wint. in Hedw. 1886, p. 14, *Sagedia parvipuncta* Stein Flechten in Krypt. Flora von Schlesien

II, 2, pag. 339. — Peritheciis minutissimis, sessilibus, hemisphæricis v. conoideis, atris, nitidis, molliusculis, 30 μ . diam.; ascis subfusiformi-clavatis, membrana crassa præditis, 8-sporis; sporidiis fusiformibus, abrupte acutatis, 2-1 cellularibus, 12-18 \approx 4-5; paraphysibus mucosis, parum distinctis.

Hab. in thallo *Thelidii diaboli* in Silesia Germ.

2. **Pharcidia constrictella** Müller in Flora 1874, p. 350 et Wint. in Hedw. 1886, pag. 12. — Peritheciis fere totis immersis, globosis, sursum parum attenuatis, thalli superficie a vertice tantum pertusis, $\frac{1}{5}$ mm. latis, tenuissime membranaceis, fusco-atris; ascis cylindricis, obtusis, 4-sporis, circ. 75 \approx 12; sporidiis monostichis, elliptico-oblongis, utrinque rotundatis, medio distincte constrictis, 18-22 \approx 8-9.

Hab. in thallo *Psoromatis fulgentis* var. *alpinæ* in Germania.

3. **Pharcidia Arthoniæ** (Arnold) Wint. in Hedw. 1886, p. 12, *Sphæria Arthoniæ* Arnold Lichenol. Ausfl. VIII, p. 304. — Peritheciis sparsis, fere omnino emersis, minutissimis, globosis, membranaceis, fuscis; ascis e basi latiori sursum oblongis, sessilibus, 8-sporis, 40-45 \approx 19; sporidiis conglobatis, cylindricis, utrinque rotundatis, 1-3-septatis, hyalinis, rectis, 18-23 \approx 5; paraphysibus nullis.

Hab. parasitica in thallo *Arthoniæ astroideæ* in Germania.

4. **Pharcidia Aspiciliæ** (Lahm) Wint. in Hedw. 1886, p. 13, *Arthopyrenia Aspiciliæ* Lahm in Körber, Parerga, p. 388. — Peritheciis confertis, minutissimis, hemisphærico-conoideis, atris, subnitidis, ostiolo indistincto, immersis, demum erumpentibus; sporidiis 8: nis in ascis fusiformi-clavatis, oblongis, bicellularibus, demum guttulis 4 præditis (4-cellularibus?), diam. 3-4plo longioribus, hyalinis.

Hab. in thallo *Aspiciliæ calcareæ* in Germania.

5. **Pharcidia Punctillum** (Arnold) Wint. in Hedw. 1886, pag. 12, *Arthopyrenia punctillum* Arnold Lichenol. Ausfl. XI, pag. 22. — Peritheciis sparsis, minutissimis, punctiformibus, hemisphærico-emersis, membranaceis, atro-fuscis; ascis e basi latiori, ventricosa sursum attenuatis, 8-sporis, 30-40 \approx 14-16; sporidiis conglobatis, oblongo-clavatis, bicellularibus, hyalinis, medio haud vel perparum constrictis, utrinque rotundatis, 14-18 \approx 3,5-5.

Hab. in thallo *Biatorinæ cyrtellæ* in Germania.

6. **Pharcidia dispersa** (Lahm) Wint. in Hedw. 1886, pag. 13, *Artho-*

pyrenia dispersa Lahm in Körber Parerga pag. 388. — Peritheciis sparsis, minutissimis, globosis vel hemisphæricis, atris opacis, ostiolo parum distincto, subverruciformi; sporidiis 8: nis in ascis cylindrico-clavatis, breviter stipitatis, subsoleæformibus, bicellularibus, plerumque cellula superiori latiori, hyalinis, 13-15 \approx 4-5.

Hab. parasitica in thallo *Biatoræ rupestris*, *Callopi-smatis ferruginei* et *Lecanoræ subfuscae* in Germania.

7. **Pharcidia Lichenum** Arnold Lichenol. Ausfl. in Tirol. VIII, p. 302 6501

et Wint. in Hedw. 1886, p. 11. — Peritheciis sparsis vel gregaris, plus minusve immersis vel demum emergentibus, imo interdum fere superficialibus, globosis, poro simplici pertusis, minutissimis, membranaceis, fuscis; ascis oblongis, ventricosis utrinque parum attenuatis, substipitatis, 8-sporis, 33-42 \approx 12-14; sporidiis conglobatis, clavatis vel cuneatis, vertice rotundatis, bicellularibus, non constrictis, hyalinis, 12-15 \approx 3,5-4; paraphysibus mucosis.

Hab. parasitica in thallo, rarius in fructibus *Lichenum* variorum in Germania.

8. **Pharcidia hygrophila** (Arnold) Wint. in Hedw. 1886, p. 14, *En-* 6502

dococcus hygrophilus Arnold in Flora 1871, p. 147. — Peritheciis atris, subglobosis, supra thalli granulos dispersis, minimis; ascis elongato-ellipticis, sursum parum, deorsum magis stipitifor-
miter attenuatis; sporidiis elliptico-oblongis, utrinque attenuatis vel in uno apice late rotundatis, sæpe inæquilateralibus, 1-septatis, 15-18 \approx 5-6, 8: nis, hyalinis, non constrictis.

Hab. in thallo *Buellie rivularis* in Germania. — *Var. Berengeriana* Arnold Lichenol. Ausfl. VI, pag. 1146: peritheciis sat minutis, atris, globoso-emersis, dispersis; paraphysibus capillaribus; sporidiis 1-septatis, cum 2-4-guttulis oleosis, utroque apice plus minus cuspidatis, 22-28 \approx 5-6, 8 in ascis oblongis. In thallo *Biatoræ Berengerianæ* in Germania.

9. **Pharcidia Porocyphi** (Stein) Wint. in Hedw. 1886, p. 13, *Artho-* 6503

pyrenia Porocyphi Stein Flechten in Krypt. Flora von Schlesien II, 2, pag. 343. — Peritheciis minutissimis, sessilibus, conoideis vel globosis, sine ostiolo distincto, atris, nitidis, 30 μ . diam.; ascis subfusiformibus, 8-sporis; sporidiis bicellularibus, ovoideo-ellipsoideis, cellula superiori plerumque parum majori, 6-8 \approx 2-3.

Hab. in thallo *Porocyphi Cataractarum* in Silesia Germ.

10. **Pharcidia microspila** (Körber) Wint. in Hedw. 1886, p. 13, *Artho-* 6504

pyrenia microspila Körber Parerga pag. 392. — Peritheciis minutissimis, primo immersis, demum emergentibus, tandem super-

ficialibus, subglobosis, ostiolo papilliformi indistincto, atris, opacis, in maculis rotundatis irregularibusque, circ. 2-3 mm. latis, cinereo-atris, e mycelio fusco, breve articulado formatis, gregariis; ascis oblongis vel elongato oblongis, medio subventricosis, fere sessilibus, 8-sporis, 42-50 \approx 14; sporidiis inordinatis, cylindrico-cuneatis, 2(rarissime 4)-cellularibus, haud constrictis, hyalinis, 15-17 \approx 4-5.

Hab. parasitica in thallo *Graphidis scriptæ* in Germania.

11. **Pharcidia conspurcans** (Fries) Wint. in Hedw. 1886, p. 13, *Arthopyrenia conspurcans* Fries Lichen. Spitsb. p. 51. — Peritheciis, punctiformibus, semiemersis, atris; hymenio absque paraphysibus; sporidiis bicellularibus, incoloribus, utroque apice plus minus obtusis, sæpe cum 2 guttulis oleosis, 10-14 \approx 5, 8 in ascis ventricosis. 6505

Hab. parasitica in thallo *Dimelænæ nimbosæ* in Germania.

12. **Pharcidia Badiæ** (Arnold) Wint. in Hedw. 1886, p. 12, *Arthopyrenia badiæ* Arnold Lichenol. Ausf. in Tirol. X, p. 13. — Peritheciis majusculis, hemisphæricis, emersis, non pertusis, atris; sporidiis elongatis, bicellularibus, hinc inde cum 4 guttulis oleosis, hyalinis, 15-16 \approx 4-5, 8 inasco; paraphysibus nullis. 6506

Hab. in thallo *Lecanoræ badiæ* in Germania.

13. **Pharcidia Tabacinæ** Arnold in Flora 1881, p. 176 et Wint. in Hedw. 1886, pag. 12. — Peritheciis punctiformibus, semiemersis, atris, hymenio absque paraphysibus; sporidiis incoloribus, elongato-oblongis, 1-septatis, regulariter 4-guttulatis, 10-12 \approx 3, 8 inasco, medio inflatis. 6507

Hab. in thallo *Psoræ tabacinæ* in Germania.

14. **Pharcidia Ahlesiana** (Hepp.) Wint. in Hedw. 1886, p. 14. — *Sagedia Ahlesiana* Hepp in Zwackh, Exsicc. 314, *Endococcus Ahlesianus* Zwackh in Flora 1862, pag. 572. — Peritheciis et ascis ignotis; sporidiis 8: nis, bicellularibus, interdum subcurvatis, semper incoloribus, utriusque subobtusis, 9-14 \approx 3-4. 6508

Hab. in *Parmelia demissa* parasitica in Germania.

LIZONIA Ces. et De Not. — Sacc. Syll. I, p. 574.

- *2. **Lizonia bertioides** Sacc. et Berl. in Rev. Myc. 1885, tab. LIV, fig. 5. — Peritheciis 2-5 acervulatis, stromate plano, rufescente insidentibus, sphæroideis, rugosiusculis, atris; ascis amplis, ovatis, crasse tunicatis, stipitatis, paraphysibus longioribus cinctis, 50-60 \approx 20-25, octosporis; sporidiis inordinate tristichis, oblongo-ovoi-

deis, guttuligeris, demum didymis, $20 \approx 8$, pallide luteis dein fuscis.

Hab. in pagina superiore foliorum Compositæ corymbiferæ cujusdam, Santos Brasil. — Sociis *Hypocreacea* quadam scoleospora (asci $70 \approx 14$; sp. $50-55 \approx 3$), *Polystigmia* (sp. $40-50 \approx 2$ utrinque hamatæ), *Entomosporio*, quorum conceptacula omnino latent, et *Helotio* amœne aureo, immaturo.

*4. **Lizonia abscondita** Johan. Svamp. fran Island. pag. 167, tab. 6510

XXIX, fig. 9. — Peritheciis superficialibus, gregariis vel subsparsis, in nervis immersis foliorum insidentibus, subcoriaceis, atris, glabris, filis fuliginosis a basi prodeuntibus, plerumque ovoideis, minutis, $130-140 \approx 88-100$; ascis cylindræo-clavatis, vix vel brevissime pedicellatis, octosporis, paraphysibus nullis, $54-70 \approx 16-20$; sporidiis distichis, pallide olivaceis, ovoideis, medio vel prope medium septatis et constrictis, membrana tenuissima, $12-17 \approx 7-10$.

Hab. in pagina super. foliorum exsiccatorum Dryadis octopetalæ, Eskifjörður Islandiæ orient.

5. **Lizonia? guaranítica** Speg. Fungi Guar. Pug. I, n. 218. — Maculis 6511

amphigenis, subarescentibus non v. obscure determinatis ex orbiculari irregulariter repando-angulosis, parvis, 2-5 mm. diam., sordide fuscis vel olivascentibus; peritheciis hypophyllis, laxiuscule gregariis, subsuperficialibus, basi matrici insculptis, primo lepidibus tectis, dein inter illas prominulo-subexertis, globosis vel globoso-depressis, atris, glabris, levibus, $100-110 \mu$ diam., vertice minute perforato ostiolatis, membranaceo-subcoriaceis, contextu subcrasse parenchymatico, fusco-atro; ascis cylindræo-obelavatis, antice truncato-rotundatis crassiusculeque tunicatis, postice abrupte breviterque attenuato-stipitatis, $45-50 \approx 7-10$, aparaphysatis, 8-sporis; sporidiis hyalinis, 2-3-stichis, fusoideis vel elongato-ellipticis, $18 \approx 2,5$, utrinque subtruncato-rotundatis, rectis, inæquilateralibus, medio 1-septatis, non constrictis, primo loculis 2-3-blastibus, dein simplicibus, eguttulatis, supero sæpe obtusiore ac crassiore.

Hab. ad folia languida *Styracis* speciei cujusdam in dumetis prope Borjas Bras. — An novum genus?

6. **Lizonia? paraguayensis** Speg. Fungi Guar. Pug. I, n. 219. — Maculis 6512

nullis; peritheciis hypophyllis in glomerulis sparsis vel laxè gregariis, rarius confluentibus, parvulis, 0,5-1 mm. diam., dense constipatis, basi sæpius confluenti-cæspitosis, superficialibus, globosis vel elliptico-globosis, $100-110 \approx 70-80$, umbonato-ostiolatis,

levibus, tomento v. pruinula alba vel fusca laxè adpersis, in sicco sæpe collapsis, membranaceo-subcoriaceis, contextu parenchymatico, atro-fuligineo, subopaco; ascis ovatis vel obclavatis, apice obtuse rotundatis vel subtruncatis, crasse tunicatis, basi abrupte subcoarctato-stipitellatis, 50-80 \approx 15-20, aparthysatis, 8-sporis; sporidiis 2-3-stichis vel subinordinatis, elliptico-elongatis v. subfusoides, utrinque obtusiuscule rotundatis, 27-29 \approx 6,5, medio 1-septatis, non constrictis, æquilateralibus, rectis v. curvulis, eguttulatis, hyalinis.

Hab. ad folia viva *Styracis* speciei cujusdam in silvis apud pagum Rica Bras. — An novum genus?

7. *Lizonia? inæqualis* Winter in *Hedwigia* 1885, p. 261. — Peritheciis amphigenis, soros rotundatos vel irregulares, sæpe compactos, 1/2-10 mm. latos formantibus, plerumque densissime stipatis, superficialibus, globosis, depressis, demum vertice impresso, umbilicato, verruculosus, atris, opacis, ostiolo minutissimo, pertuso, interdum brevissime papilliformi, 210-240 μ . diam.; ascis oblongis, sursum parum, deorsum magis attenuatis, stipite sublongo, gracili præditis, membrana apice valde incrassata, 8-sporis, 70-75 \approx 19-20; sporidiis subdistichis, ellipticis, 2-cellularibus, cellula superiore multo majori, elliptica, basi subtruncata, cellula inferiore apiculiformi, minutissima, primo hyalinis, demum pallide fuscidulis.

Hab. in foliis vivis *Compositæ* adhuc ignotæ, scandentis (*Mikania* spec.?) prope S. Francisco Brasiliæ (E. ULE).

MELANOPSAMMA Niessl. — Sacc. Syll. I. pag. 675.

- * 1. *Melanopsamma Saccardiana* Bomm. et Rouss. in litt. Sacc. Misc. Myc. I, pag. 18. — Peritheciis gregariis, minutis, 1/8 mm. diam., subglobosis, obtuse papillatis, atris, glabrescentibus, sed hyphis dematiaceis (propriis?) rigidulis, fuliginis, plerumque cinctis; ascis subcylindricis, aparthysatis vel spurie pararthysatis, 60-70 \approx 5-7, apice rotundatis, deorsum attenuatis breviterque stipitatis, octosporis; sporidiis oblique monostichis v. distichis, breve oblongis, utrinque obtusiusculis, diu continuis, tandem distincte constricto-1-septatis, 7-8 \approx 4, 2-4-guttulatis, hyalinis.

Hab. in ligno fagineo putrescente, Groenendael Belgii. — Sociis *Helminthosporio apiculato* et *Lasiosphæria hispida*.

- * 2. *Melanopsamma Amphispheeria* Schulz. et Sacc. in Rev. Myc. 1884, Schulz. Ill. Fung. Slav. n. 110. — Peritheciis dense gregariis, superficialibus nigris, levissimis, globosis vel globoso-conicis, 1/15-1/5

mm. diam., ostiolo obtuse conico; ascis cylindricis, paraphysatis, brevissime stipitatis, octosporis; sporidiis recte vel oblique monostichis, ellipsoideis, constricto-1-septatis, $17 \approx 8$, hyalinis, (extra ascos subinde 3-septatis).

Hab. in ramis decorticatis Cydoniæ vulgaris prope Vin-kovce Slavoniæ.

- *12. **Melanopsamma emergens** Schulz. et Sacc., in Rev. Myc. 1884, 6516
Schulz. Ill. Fung. Slav. n. 615. — Peritheciis laxè gregariis, ligno semiimmersis globulosis, sursum conicis, minutis, 1-2 mm. diam., carbonaceis, minute verruculosis, atris; ostiolo obtusiusculo, perforato; ascis tereti-clavulatis, subsessilibus, filiformi-paraphysatis, octosporis; sporidiis distichis oblongis, sæpe curvulis, utrinque rotundatis, medio constrictis, 4-guttulatis, 14-21 \approx 4,5, hyalinis.

17. **Melanopsamma salicaria** (Karst.) Sacc. Syll. II, Add. XLV. *M. 6085
fallax Sacc. et Br. Miscell. Myc. II, p. 22, n. 93. — A typo recedit sporidiis minoribus, nempe 12-14 \approx 6-8, et matrice superficie dealbata.

Hab. in cortice Salicis albæ, Troyes Galliæ (BRIARD).

- *21. **Melanopsamma Romelliana** Sacc. in litt. — Peritheciis sparsis 6517
vel subgregariis, primum sphæroideis demum collapsis, subastomis, superficialibus, nitidis, levibus, $\frac{1}{3}$ - $\frac{1}{4}$ mm. diam.; ascis clavatis, apice nonnihil attenuatis, sessilibus vel breviter pedicellatis, 33-43 \approx 7-9, octosporis; sporidiis subdistichis vel in medio conglobatis, spurie 1-septatis, primo 4-guttulatis, medio vix constrictis, 7-10 \approx 3-4 $\frac{1}{2}$ (plerumque 8-9 \approx 3 $\frac{1}{2}$), hyalinis.

Hab. in corbis Orchidearum in calidario Horti botanici Upsaliensis Sueciæ (ROMELL).

LENTOMITA Niessl. — Sacc. Syll. I, p. 585.

- *1. **Lentomita longicollis** Karst. in Hedw. 1884, n. 6, p. 85. — Rev. 6518
atque Synop. Ascom. fenn. p. 58. — Peritheciis gregariis, innatis, dein semierumpentibus, rarissime liberis, sphæroideis, nudis, glabris, fragilibus, atris, rostro cylindræo, recto, vulgo peritheciæ æquante, 4 μ . lat.; sporidiis 8: nis, monostichis, oblongato-ellipsoideis, ultra medium uniseptatis, junioribus 1-2-guttatis, ad septum non constrictis, chlorino-hyalinis, 11-16 \approx 5-6.

Hab. in ligno vetusto Betulæ in Mustiala Fenniæ. — Peritheciis majoribus, basi haud applanatis, rostro longiore; sporidiis majoribus, ultra medium spurie uniseptatis etc. ab affini *Lent. brevicolle* differt.

VENTURIA Ces. et De Not. — Sacc. Syll. I, p. 587.

1. **Venturia chlorospora** (Ces.) Karst. — Sacc. Syll. I, pag. 586, var. ²²⁸⁸
canescens Karst. Myc. fenn. II, pag. 190, *Sphærella canescens*
 Karst. Fung. Fenn. exsicc. 895. — A typo differt sporidiis dilu-
 tissime luteolis, angustioribus, 14-20 \approx 6. — In foliis Salicis acu-
 tifoliæ vetustis, Mustiala Fenix.

*2. **Venturia islandica** Johans. Svamp. fran. Island. p. 168, t. XXIX, ⁶⁵¹⁹
 fig. 10. — Peritheciis plerumque hypophyllis, sparsis, superficiali-
 bus, nigris, subsphæroideis vel ovoideis, in superiore parte setulis
 nigris paucis (7-10), 100-135 μ , longis ornatis; ascis ovoideo-
 elongatis, plerumque inæquilateralibus, paraphysatis, sessilibus, octo-
 sporis, 54-57 \approx 18-20; sporidiis distichis vel conglobatis, ovoideis
 vel ovoideo-elongatis, prope basim septatis, ad septum non con-
 strictis, hyalinis, 19-24 \approx 6-8, loculo majore 15-20 \approx 3-5.

Hab. in foliis emortuis Dryadis octopetalæ, Eskifjordur
 Islandiæ orientalis.

*4. **Venturia Cassandræ** Peck 38 Rep. St. Mus. p. 104, t. 2, fig. 11-14, ⁶⁵²⁰
 — Maculis rufo-brunneis v. brunneis, sæpe centro griseis; perithe-
 ciis amphigenis, minutis, 70-80 μ . diam., nigris, setis minutis, rectis,
 paucis, divergentibus, 30-40 μ . longis sursum auctis; ascis oblon-
 gis, sursum leniter constrictis, 40-45 \approx 8-10; sporidiis distichis, ob-
 longis, quadrinucleatis, medio uniseptato-constrictis, 12 \approx 5, hyalinis.

Hab. in foliis vivis Cassandræ calyculatae, Caroga Ame-
 ricæ borealis.

7. **Venturia ilicifolia** Cooke. — Sacc. Syll. I, p. 588. Diagnosis nova ²²⁹³
 a Winter relata (confr. Hedwigia 1885, p. 98) a Saccardiana non
 differt nisi setulis peritheciis longioribus, nempe 100-120 \approx 15; hinc
 species Saccardoi ut typi varietas **breviseta** censenda est.

*7. **Venturia socia** Sacc. et Berl. in Rev. Myc. tab. LIV, f. 4, bis. ⁶⁵²¹
 — Peritheciis globosis, 200-300 μ . diam., membranaceis, subastomis,
 contextu laxo, olivaceo, setuligeris; setis erectis, subulatis, quan-
 doque apice recurvatis, continuis, subhyalinis; ascis subclavatis v.
 subfusoides, 30-40 \approx 10, octosporis, sessilibus, aparaphysatis; spo-
 ridiis distichis, oblongis, utrinque rotundatis, guttuligeris vel spu-
 rie uniseptatis, 10 \approx 4, hyalinis.

Hab. in pag. infer. foliorum..... in subiculo Asterinæ cu-
 jusdam Santos in Brasilia. — *V. nobili* propinqua, a qua setulis
 subhyalinis etc. differt.

8. **Venturia appanata** Ell. et Mart. in Am. Nat. Bot. 1884, p. 69. ⁶⁵²²
 — Peritheciis hypophyllis, lentiformibus, 100 μ . diam., centro per-

tusis, contextu celluloso, subradiato, setis brunneis, parce septatis, 12-15, erectis, 70-100 μ . longis præditis; ascis oblongis, 40 \approx 10-12; sporidiis di-tristichis, ovato-oblongis, 1-septatis, flaveolis, 10-12 \approx 3.

Hab. in foliis vivis Magnoliæ glaucæ, New Florida Americæ borealis.

- *9. **Venturia saccardioides** Ell. et Mart. Am. Nat. 1884, pag. 69. 6523

— Peritheciis hypophyllis, sparsis, brunneo-nigris, sursum collapsis, 150-200 μ . diam., setis 100-140 μ . longis vestitis; ascis obovatis, 4-6-sporis; sporidiis obovatis, triseptatis, medio constrictis, hyalinis, 15-16 \approx 3-3 $\frac{1}{2}$.

Hab. in foliis vivis Magnoliæ glaucæ, New Florida Amer. bor. — Verisimiliter asci, dum perfecte evoluti, octospori sunt.

- *10. **Venturia cupulata** Ell. et Mart. Am. Nat. Bot. 1884, p. 69. — 6524

Peritheciis hypophyllis, sparsis, astomis, 300 μ . diam., basi setosis, apice calvis collapsisque; setis brunneo-nigris, 210 \approx 6; ascis oblongis, 48 \approx 12, octosporis; sporidiis obovato-hyalinis distichis, uniseptatis, 12-13 \approx 4-4 $\frac{1}{2}$.

Hab. in foliis vivis Quercus laurifoliæ, New Florida Americæ borealis.

11. **Venturia Grossulariæ** (Auersw. et Fl.) Sacc. Syll. I, pag. 589, 2998

Winter in Hedwigia 1885, pag. 99. — Asci plerumque obclavati i. e. e basi latiori sursum parum attenuati, 35-40 \approx 9.

- *11. **Venturia curviseta** Peck in 35 Rep. St. Mus. Bot. 1884, pag. 46. 6525

— Peritheciis numerosis, minutis 75-100 μ . diam., coærvatis vel subgregariis, nigris, apice 5-8 setis nigris, divergentibus, basi abrupte curvatis, 75-125 μ . longis, aucto; ascis oblongis, sursum attenuatis, sæpe leniter curvulis, 40-50; sporidiis stipatis vel distichis, oblongis, 10,5-12,5 \approx 4-5, hyalinis, parte superiore crassiore.

Hab. in foliis languidis Nempanthi canadensis Fenter Amer. bor.

- *14. **Venturia Arctostaphyli** Cooke et Harkness in Grevillea XIII, 6526

p. 20. — Amphigena, sparsa, atra; peritheciis subglobosis, superficialibus, strigosis, 120-150 μ . diam., pilis rigidis, acicularibus, 80 μ . long.; ascis obclavatis, sessilibus, octosporis; sporidiis ellipticis, utrinque rotundatis vix constrictis, uniseptatis, flavidis, 12-15 \approx 5.

Hab. in foliis emortuis Arctostaphyli in California.

- *15. **Venturia elegantula** Rehm in Hedwigia 1885, p. 241. — 6527

Peritheciis ut in *V. Myrtilli* sed majoribus, sparsis vel confertis, sessilibus aut primitus immersis; vertice setis simplicibus, acutis, fu-

scis, 60-120 \approx 4 præditis, parenchymatice fusce contextis; ascis pseudopiriformibus, latis, basi sessilibus, 8-sporis, 75-90 \approx 15-21; sporidiis distichis, oblongis, obtusis, 2-cellularibus, cellulis æqualiter longis, sæpe 2-nucleolatis, supera latiore, medio vix constrictis, viridulis, 15-21, plerumque 24-27 \approx 6-7, paraphysibus paucis, intricatis.

Hab. ad folia putrida Vaccinii Myrtilli supra Gampenhöfe prope Sulden ad montem Ortler in Tirolia (Dr. REHM).

- *16. **Venturia Straussi** Sacc. et Roum. in Rev. Myc. 1884, pag. 95, 6528
tab. LXVII, fig. 2, Patouill. Tab. Anal. Fung. III, p. 133, fig. 299, *Chaetomium pusillum* Strauss in Sturm. Deut. Pilze III, 34 (nec Fries). — Peritheciis hic inde congestis, superficialibus, subiculo setoso, fusco, subrepente insidentibus setisque rigidulis, fuliginis, subrectis, septatis undique vestitis, ostiolo obsolete; ascis teretibus, brevissime stipitatis, 90 \approx 16, non vel spurie paraphysatis, octosporis; sporidiis subdistichis, obovato-oblongis, constricto 1-septatis, loculo infero tenuiore, minute quadriguttatis, lenissime chlorinis, 16-20 \approx 8-9.

Hab. in ramulis folisque vivis Ericæ scopariæ in silv. pinet. Bordeaux Galliæ.

- *17. **Venturia Gaultheriæ** Ell. et Ev. in Journ. of Myc. 1885, p. 155. 6529
— Maculis orbicularibus, brunneis, $\frac{1}{3}$ mm. diam., centro sæpius griseis; peritheciis sparsis, orbicularibus, 75 μ . diam., membranaceis, contextu crasse parenchymatico, sursum setis paucis, nigris, continuis, rectis, divergentibus, 35 \approx 3, præditis; ascis ovato-oblongis, 30-35 \approx 8-11, basi incrassatis curvulisque, sessilibus, paraphysatis; sporidiis biserialibus, subhyalinis, ovato-oblongis, 3-4 nucleatis, 1-septatis, ad septum parum constrictis.

Hab. in foliis vivis Gaultheriæ procumbentis, Newfield Amer. bor.

- *20. **Venturia aggregata** Winter in Hedw. 1884, p. 172. — Peritheciis amphigenis, superficialibus, 2-20 (rarius pluribus) densissime 6530
aggregatis, stromatis minuti, rotundati, verruciformis, extus atris, intus cinnabariini superficie insidentibus, depresso globosis, demum cupuliformibus, parcissime setulosis, ostiolo vix conspicuo perforatis, atris; ascis copiosis, clavatis, longe pedicellatis, apicem versus parum attenuatis, 8-sporis, paraphysibus filiformibus, numerosis obvallatis, 60-80 \approx 19-21; sporidiis inordinate subdistichis, elliptico-oblongis, plerumque inæquilateralibus, medio uniseptatis et parum constrictis, demum pallidissime fuscidulis, 16-17 \approx 8-9.

Hab. in foliis..... prope S. Francisco Bras. (E. ULE).

21. **Venturia Petasitidis** (Fuck.) Sacc. Syll. I, p. 592, Winter in Hedwigia 1885, p. 98. — Asci oblongi, utrinque parum attenuati, sessiles, 8-spori, 43-50 \approx 9-10. 2308

- *23. **Venturia Balansæ** Speg. Fungi Guar. Pug. I, n. 220. — Maculis nullis; peritheciis hypophyllis, sparsis, globosis, parvulis, 80-90 μ . diam., atris, setulis erectis, raris, cylindræis, rectis, pluriseptatis, apice obtusis, basi subincrassatulis, 30-120 \approx 4-5, dilute fusco-fuligineis vestitis, vertice minutissime impresso-ostiolatis, in sicco sæpe cupulato-collapsis, tenuiter membranaceis, contextu obscure parenchymatico-fuligineo, subiculo radiante, parcissimo, ex hyphis tenuissimis, continuis, fuscescentibus, simplicibus composito insidentibus; ascis cylindræis, apice rotundatis, crassiuscule tunicatis, basi breve attenuato-stipitatis, 45-50 \approx 4,5-5, paraphysisibus filiformibus, superne ramulosis, laxè obvallatis, 8-sporis; sporidiis hyalinis, recte et alterne distichis, elliptico-fusoideis, utrinque acutiuscule rotundatis, 10-12 \approx 2-2,5, rectis v. subinæquilaterali-curvulis, medio 1-septatis, constrictulis, oculis minute 2-guttulatis, supero sæpius paullulo breviorè, crassiorè obtusiorèque. 6531

Hab. ad folia viva Dichondræ repentis in umbresis silvæ Caa-guazû Bras.

24. **Venturia circinans** (Fr.) Sacc. Syll. I, p. 592. Huc spectant, teste cl. Winter (Hedwigia 1885, p. 98), *Venturia glomerata* et *Dolhidea Robergei*. — Sporidia 4,5 tantum lata. 2311

- *27. **Venturia anthophila** Passer. Erb. critt. Ital. Ser. II, p. 1369. — Peritheciis sparsis, superficialibus, prominulis, globoso-conicis, atris, opacis parce setulosis; ascis aparaphysatis, rectiusculis, ovato-oblongis, circiter 60 \approx 12; sporidiis oblongis, didymis, medio subconstrictis, loculo altero angustiorè, hyalinis, vage minuteque guttulatè, 23-25 \approx 7-7,5. 6532

Hab. in floribus exsiccatis Hydrangæ hortensis in horto bot. Parmensi (PASSERINI).

29. **Venturia Potentillæ** (Fries) Sacc. Syll. I, pag. 594, Winter in Hedwigia 1885, p. 98. — Asci oblongo-cylindræi, 40-45 \approx 8-10; sporidia subdisticha, oblongo-ovoidea seu piriformia, infra medium uniseptata, pallide viridula, 12-14 \approx 4-5. 2316

- *30. **Venturia Genistæ** (Fuck.) Wint. in Hedwigia 1885, p. 26, *Didymella Genistæ* Sacc. Syll. I, p. 546. — Perithecia ostiolo brevi, apice setarum fasciculo brevissimarum, strictarum, atrarum coronato prædita; asci 80-95 \approx 8-9; sporidia 13-14 \approx 4-5. 2127

- *32. **Venturia microchæta** Pat. in Rev. Myc. 1886, p. 82 (*V. micro-* 6533
seta. — Peritheciis minutis, nigris, globulosis vel depressis, glabris, vertice setis acutis, brevibus, 36-45 μ . longis, nigris coronato; ascis cylindræis, breviter pedicellatis, 75 μ . longis; sporidiis cylindræis, 1-septatis, hyalinis vel vix virescentibus, 21 \approx 2-3.

Hab. in foliis emortuis Caricis, Thibet oriental. (Ab. David).

- *41. **Venturia nivalis** (Strauss) Berl. et Vogl. *Chaetomium nivale* 6534
Strauss in Sturm. Deut. Flora III, 34. — Peritheciis globosis, undique pilis longis, simplicibus, continuis, divergentibus, strictis vestitis, nigris, hypothallo late effuso, nigro, insidentibus; ascis clavatis, sursum rotundatis, basi attenuatis breviterque pedicellatis, tunica crassiuscula præditis, octosporis; sporidiis ovoideo-elongatis, biseptatis.

Hab. in foliis ramulisque e. g. pineis sub nive, in alpinis, Bavariæ (Kummer). — Species hæc nec non sequens sporidiis 2-pluriseptatis ornatæ, genus novum constituere merentur.

- *42. **Venturia occidentalis** Ellis et Ev. Journ. of Myc. 1886, p. 43. 6535
Chaetomella (?) *perforata* E. et E. in Journ. of Myc. 1885, p. 153. — Peritheciis superficialibus, subglobosis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., apice poro minuto pertusis, setis atris, rigidis, continuis, diametrum perithecorum æquantibus ornatis, membranaceis, contextu crasse parenchymatico, subhemisphæricis; ascis subcylindræis, circiter 75-100 \approx 7-10, (paraphysibus imperfectis 7); sporidiis oblongo-fusiformibus, demum 3-septatis, medio v. quandoque etiam ad cetera septa constrictis, subhyalinis, 20-25 \approx 4-5.

Hab. in caulibus Cirsii discoloris, C. altissimi et Artemisiæ ludovicianæ, Ames Iowa Amer. bor. — *Var. minor* Ellis et Ev. in Journ. of Myc. 1886, pag. 43: ascis minoribus, 50-60 \approx 6-8, paraphysibus gracilioribus; sporidiis 15 \approx 3, ovoideis; medio vix coloratis. In Artemisia ludoviciana in Amer. bor.

Observatio

Species sequentes, in Sylloge sub aliis generibus militantes, sec. cl. Winter (Confr. Hedwigia 1886, p. 27) ad hoc genus pertinent, nam perithecia ostiolo apice fasciculo setarum brevium prædita sunt sporidiaque uniseptata.

- *24 **Venturia Geranii** (Fr.) Winter *Stigmatea* Ger. Sacc. Syll. I, p. 511. 2103
*22. **Venturia epilobiana** (Sacc.) Winter *Læstadia epilobiana* Sacc. 1638
Syll. I, p. 429.
*12. **Venturia Systema-solare** (Fuck.) Winter *Læstadia Systema* 1603
solare Sacc. Syll. I, p. 423.

ERIOSPHÆRIA Sacc. Syll. I, p. 397.*1 **Eriosphæria vermicularioides** Sacc. et Roum. in Rev. Myc. 1883, 6536

tab. 39, fig. 3. — Peritheciis dense gregariis superficialibus, globoso-papillatis, nigris, minutis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam., subcarbonaceis, setulis filiformibus, rigidis, septatis, fuligineis, basi cinctis parceque supra conspersis; ascis cylindraceis, breve stipitatis, 70-80 \approx 5, octosporis; sporidiis oblique monostichis, ellipsoideis, 1-septatis constrictisque, utrinque rotundatis, 7-8 \approx 4, hyalinis.

Hab. in lignis putrescentibus in Gallia. — Ab *E. Vermicularia* differt ascis cylindraceis, longioribus et angustioribus; sporidiis monostichis; peritheciis supra sæpius glabratis.

*9. **Eriosphæria inæqualis** Grove in litt. — Peritheciis ovoideis, cir- 6537

citer 150 μ . diam., confertis, superficialibus, parte inferiori pilis brevibus, rigidis, radiantibus obsitis, superiori nudis, prominulis, rugosiusculis, nitidis; ostiolo conico, pertuso; ascis stipitatis, cylindricis, 50 μ . long., subinde basi attenuatis et deinde 70-80 \approx 3-4; sporidiis monostichis, oblongis, 7-8 \approx 2 $\frac{1}{2}$ -3 μ ., inæqualibus, 2-3-guttulatis, hyalinis, maturis tenuiter 1-septatis; loculo superiori ovoideo 1-guttulato, inferiori angustiori et longiori, attenuato, conico, 2-guttulato; loculis demum facile secedentibus.

Hab. in ligno putri, unâ cum *Gonytricho cæsius*, Barnt Green prope Birmingham, Brit. — *Trichosphæria pilosæ* manifeste affinis et ab icone Curreyana (Linn. Trans. XXII, t. 57, f. 21) vix nisi sporidiis inæqualibus differens. Cum *Trichosphæria pilosæ*, var. *nitidula* (Syll. II, XXXIV) comparanda, quæ probabiliter status junior videretur.

*10. **Eriosphæria calospora** Speg. Fungi Guar. Pug. I, n. 221. — 6538

Peritheciis dense sparsis v. laxè gregariis in matrice immutata v. vix dealbata superficialibus, udis, globosis, 200-250 μ . diam., siccis cupulato-collapsis, setulis pluriseptatis, fuligineis, breviusculis, 50-100 \approx 5, subcylindraceis, apice acutatis v. subclavulato-hyalinis, basi non incrassatis laxissime vestitis, membranaceo-coriacellis, atris, levibus, contextu dense subimperspicueque parenchymatico, olivaceo, subopaco, ostiolo minute umbonatulato ornatis; ascis elliptice v. elliptico-subfusoides, antice truncato-rotundatis, postice brevissime crasseque attenuato-stipitatis, 45-55 \approx 13-20, aparaphysatis, 8-sporis; sporidiis hyalinis, recte v. oblique distichis, elliptico-elongatis, utrinque acutiuscule rotundatis, non v. vix inæquilateralibus, rarius subsigmoideis, medio 1-septatis, non v. leniter constrictis, lo-

culis subæqualibus non v. 2-guttulatis, episporio primo levi, dein transverse rugoso, rugis minute tuberculosi.

Hab. ad culmos emortuos Bambusaceæ scandentis cujusdam in silva subvirginea Caa-guazù Bras.

GIBBERA Fr. — Sacc. Syll. I, p. 599.

- *2. **Gibbera guaranitica** Speg. Fungi Guar. Pug. I, n. 222. — Peri- 6539
theciis superficialibus, dense lateque cæspitoso-stipatis, plagulas 1-10 cm. diam., granulosas, sordide rubiginosas efficientibus, ob-
ovatis, nigro-fuscis, levibus, parvulis, 600 \approx 300-350, primo ferru-
gineo-pruinulosis, dein glabratis, ad basim tantum subtomentosu-
lis, hyphis repentibus, parce ramosis, septulatis, gracilibus 3-4 μ .
crass., fuligineis donatis, ostiolo minuto, umbilicato, radiato-rugu-
loso, coriacellis; contextu parenchymatico-indistincto, fuligineo-oli-
vaceo, subopaco; ascis cylindræo-clavatis, apice rotundatis vel
acutatis, basi longiuscule attenuato-pedicellatis p. sp. 65-70 \approx 10-
12, ped. 25-30 \approx 3; paraphysibus filiformibus, longioribus, simpli-
cibus v. parce ramulosis, densis obvallatis, 8-sporis; sporidiis obli-
que monostichis v. recte distichis, ellipticis, sæpius inæquilatera-
libus, medio 1-septatis, constrictulis, utrinque acutato-rotundatis,
15-18 \approx 6-7, loculis crasse 1-guttulatis, perdilute olivascentibus.

Hab. ad truncos dejectos putrescentes in silvis prope Guara-
pi Bras.

MELANCONIS Tul. — Sacc. Syll. I, p. 602.

- *1. **Melanconis Aceris** Phill. et Plowr. in Grevillea XIII, p. 77. — 6540
Stromate valsoideo, atro, suborbiculari vel conico-truncato, 2-5
 μ . diam., corti-vel lignicolo, linea atra circumscripto; peritheciis
 $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., 5-15 coacervatis; ostiolis minutis; ascis clavatis
65-70 \approx 10; sporidiis hyalinis, uniseptatis, nucleatis, ad septum le-
niter constrictis, ellipsoideis, 12-15 \approx 4-5, muticis.

Hab. in Acere in Britannia (W. B. GROVE).

- *3. **Melanconis Everhartii** Ell. in Bull. Torr. bot. Club. 1833, p. 117. 6541
— Peritheciis globosis, 0,25 mm. diam., in stromatibus compactis,
4-18; ascis clavato-cylindræis, 114-120 \approx 19; paraphysibus cras-
siusculis, remote septatis, granulosis; sporidiis distichis, oblongo-
ellipsoideis, uniseptatis, subhyalinis, 34-38 \approx 11.

Hab. in ramulis delapsis Aceris, West Chester in Amer. bor. 6542

- *7. **Melanconis dasycarpa** Ellis et Kellerm. in Journ. of Myc. 1886,
p. 3. — Stromate corticali, 1 mm. diam. vel paullo latiore, linea

nigra circumscripto; peritheciis 3-8 cortice interiore immersis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., ostiolis asperulis, cylindræco-conoideis, epidermidem stellato-ruptam sæpe perforantibus, fasciculatis et in discum protrusis; ascis oblongo-cylindræceis, subsessilibus, 100-115 \approx 18-20; paraphysibus imperfecte evolutis; sporidiis distichis, oblongo cylindræceis, leniter curvulis, uniseptatis, subhyalinis, septo non vel vix constrictis, 25-30 \approx 8-10, appendicula crassiuscula, leniter obliqua hyalina, 16-20 \approx 3, utrinque præditis.

Hab. in ramulis putridis *Aceris dasycarpi* Manhattan Kansas Amer. bor. — Affinis *M. Alni*.

DIAPORTHE Nits. — Sacc. Syll. I, p. 607.

- *6. **D. Chorostate Bloxami** (Cooke) Berl. et Vogl. *Valsa Bloxami* 6513
Cooke in Grevillea XIV, p. 47. — Pustulis convexis, emergentibus; peritheciis 12-20 congestis, piriformibus, in collum elongatum productis, pulvere aureo-fulvo obductis; disco orbiculari, fusco; ascis cylindræcis, octosporis; sporidiis uniserialibus, ellipticis vel sublanœeolatis, medio uniseptatis, leniter constrictis, hyalinis, 22 \approx 6.

Hab. in ramis Fagi? Twycross Britannia (BLOXAM).

- *17. **D. Chorostate Hippocastani** (Cooke) Berl. et Vogl. *Valsa Hippocastani* 6544
Cooke in Grevillea XIII, pag. 98. — Pustulis paucis peritheciis (6-8) in cortice immersis et cuticulam e compositis ostiolis convergentibus perforatam elevantibus; peritheciis subglobois, depressis, plerumque gregariis, atris; ascis clavatis, subsessilibus, 8-sporis; sporidiis fusiformibus, biserialis, uniseptatis, biguttulatis, ad septa parum constrictis, aliquando utrinque appendicula hyalina præditis, hyalinis, 25-28 \approx 5-7.

Hab. in ramulis *Æsculi Hippocastani*, Kew, Bustey Park Hampton Court et Honnington Britann. (SUFFOLK).

- *18. **D. Chorostate æsculicola** (Cooke) Berl. et Vogl. *Valsa æsculicola* 6545
Cooke in Grevillea XIV, pag. 47. — Pustulis orbicularibus, in lineas breves dispositis; peritheciis subglobois, atris, congestis, ostiolis cylindræcis, convergentibus, levibus, emergentibus; ascis clavatis; sporidiis biserialibus, fusoidis, quadrinucleatis, demum uniseptatis, hyalinis, 20 \approx 4.

Hab. in ramis *Æsculi*, Sydenham Britannia.

- *19. **D. Chorostate sparsa** Niessl Contr. Fl. Myc. Lus. pag. 17. 6546
— Stromate late effuso, ambiente, toto immerso, diatrypeo, corticis interioris superficiem nigrificante, ligni substantiam non mutante,

sed linea nigra limitato; peritheciis minutis, sparsis, in cortice interiori, depresso globosis, ostiolo crasso, brevi, vix erumpente; ascis lanceolatis, sessilibus, 8-sporis, 52-50 \approx 8-10; sporidiis laxè distichis, oblongis, obtusiusculis, rectis, medio septatis, hyalinis, 10-12 \approx 3-4.

Hab. ad *Glycines violaceæ* ramulos aridos, Coimbra Lusitaniæ (MOLLER). — Adsunt spermogonia sparsa, sub peridermio immutato in corticis superficie nidulantia, minuta, ellipsoideo-globosa, ostiolo papilliformi, spermatis oblongis, plerumque rectis, 2-4-guttulatis, hyalinis, 12-15 \approx 4-5.

- *24. **D. Chorostate concrescens** (Schw.) Cooke in *Grevillea* XIII, 4172 pag. 38, *Sphæria concrescens* Schw. Syn. Amer. bor. 1301, et Sacc. Syll. II, p. 378. — Sporidia fusiformia, quadrinucleata, demum uniseptata, 12 μ . longa.

- *32. **D. Chorostate fuscidula** (Cooke) Berl. et Vogl. *Valsa fuscidula* Cooke in *Grevillea* XIV, pag. 48. — Pustulata, fusca; pustulis erumpentibus, convexis, subpulveraceis; peritheciis paucis, immersis, collis elongatis, convergentibus, demum punctato-emergentibus; ascis clavatis, breviter stipitatis, octosporis; sporidiis inordinatis, arcte fusoideis, binucleatis, demum uniseptatis, hyalinis, 18-20 \approx 3,5. 6547

Hab. in ramulis *Quercus* verisimiliter in Britannia.

- *36. **D. Chorostate Eucalypti** Harkn. New Calif. Fungi pag. 24. 6548 — Peritheciis in acervulos valsoideos, linea atra circumscriptis, aggregatis, rostris 1 mm. vel amplius longis, laxis, sæpe agglutinatos; ascis oblongo-fusoideis, 33 \approx 7; sporidiis fusiformibus, vix curvulis, hyalinis, 1-septatis, 4-guttatis, acuminatis, 15 \approx 4.

Hab. in foliis emortuis *Eucalypti* Globuli, S. Francisco in California.

- *44. **D. Chorostate pulchella** Sacc. et Br. Misc. Myc. I, pag. 3. — 6549 Pustulis gregariis, subcutaneo-erumpentibus, $1\frac{1}{3}$ - $1\frac{1}{2}$ mm. diam.; peritheciis paucis, circinantibus, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., globulosis, ostiolis convergentibus, brevibus, non exertis; ascis fusoideis, subsessilibus, paraphysatis, 60-76 \approx 12-16, lumine apice minute bivoelato, octosporis; sporidiis subdistichis, oblongo-fusoideis, constricto-1-septatis, 16-22 \approx 7-9, utrinque acutiusculis, rectis curvulisve, hyalinis.

Hab. in ramis corticatis *Populi pyramidalis*, Troyes Galliæ (BRIARD). — *Melanconi dolosæ* affinis videtur.

- *45. **D. Chorostate Trecassium** Sacc. et Briard Misc. Myc. I, p. 4. 6550

— Peritheciis corticulis, in acervulos valseos, conico-discoideos, regulares arcte aggregatis, globosis, atris, $\frac{1}{2}$ mm. diam., stromate albido, ligneo exceptis, circuloque nigro eximie circumscriptis, ostiolis in conum atrum, obtusiusculum, parum exstans coalescentibus; ascis cylindræis, breve stipitatis, apice lumine coarctato, rotundatis, p. sporif. 95–110 \approx 9–11, octosporis; sporidiis monostichis, ellipticis, utrinque subrotundatis, constricto 1-septatis, 18–22 \approx 7–9, biguttatis granulosive, hyalinis.

Hab. in ramis corticatis Platani orientalis prope Troyes (Trecasses) Galliæ. — Ob sporidia elliptica et ascos teretes ad *D. fibrosam* nutat (BRIARD).

- * 46. **D. Chorostate Berlesiana** Sacc. et Roum. in Rev. Myc. 1883, 6551
pag. 234, tab. 39, fig. 4. — Pustulis gregariis, discoideis, subcutaneis, mediocribus, linea stromatica nulla vel obsoleta; peritheciis circumstantibus, minutis, globosis, $\frac{1}{4}$ mm. diam.; ostiolis in disculum erumpentem, atrum conjunctis, obtusiusculis vix emergentibus; ascis fusoideo-clavatis, 50 \approx 8, aparaphysatis octosporis; sporidiis, distichis cylindræis, utrinque obtusiusculis, 13–17 \approx 3,3–3,5, 1-septatis, non vel vix constrictis, muticis, 4-guttatis, hyalinis.

Hab. in ramis corticatis Rhamni Frangulæ. — A *D. syn- genesisia* sporidiis muticis, stromatibus haud concentrice striatis etc. differt.

- * 51. **D. Chorostate elæostroma** (Cooke) Berl. et Vogl. *Valsa olivæ-* 6552
stroma Cooke in Grevillea XIV, pag. 48. — Erumpens; pustulis sub epidermide nidulantibus; peritheciis 6–10 in circulos dispositis, stromate olivaceo, pulveraceo insidentibus, collis subelongatis convergentibus; ascis clavatis, octosporis; sporidiis subuniseriælis, lanceolatis, medio uniseptatis, leniter constrictis, hyalinis, 26–28 \approx 8.

Hab. in ramis Cerasi Avium, Jedburgh Britannicæ.

- * 52. **D. Chorostate cylindrospora** Peck 38 Rep. St. Mus. pag. 104. 6553
— Stromatibus valsoideis, prominulis, erumpentibus, sparsis; peritheciis numerosis, 15–30 in quoque stromate, stipatis, epidermide intus nigrescente tectis, ostiolis longis, stipatis, exertis, fere æqualibus, nigris; ascis acutis, subfusiformibus, 45–55 \approx 6–8; sporidiis subcylindræis, stipatis vel distichis, quadrinucleatis, 13–16 \approx 3–4.

Hab. in ramis emortuis Pruni pensylvanicæ in montibus Adirondach Amer. bor.

53. **D. Chorostate Cratægi** (Curr.) Fuck. — Sacc. Syll. I, pag. 204. 2405.
Incertum an huc spectet *Pseudovalsa (Valsaria) Cratægi* Win-

ter, Cooke in Grevillea XIV, p. 48. — Stromate valsoideo; sporidiis subuniseriatis, ellipticis, uniseptatis, pallide fuscis, 16-18 \approx 6.

Hab. in Cratægo in Germania.

*57. **D. Chorostate Ellisii** Rehm in litt. Ellis et Ev. in Torr. of 6554

Bot. Club. 1883, pag. 89. — Stromate corticali, non linea nigra circumscripto; peritheciis numerosis, 15-20 in quoque stromate, 0,5 mm. diam. stipatis, subcircinatis, corticem in pustulas parvas elevantibus, disco convexo, brunneo, margine ostiolis obtusis perforato, centrum pustularum occupante; ascis subclavatis, 57 \approx 8; sporidiis distichis vel stipatis, acute ellipsoideis, 4-nucleatis, subinde medio leniter constrictis, 11-15 \approx 3,5-5,5.

Hab. in ramis Carpini americanæ. — Adest simul *Cytospora* sporulis oblongis, hyalinis, 4-nucleatis, 8-11 \approx 2,5.

*60. **D. Chorostate punctata** (Cooke) Berl. et Vogl. *Valsa punctata* 6555

Cooke in Grevillea XIV, p. 47. — Pustulis convexis, emergentibus, ostiolis brevibus, in discum orbicularem congestis; ascis clavatis, breviter stipitatis, octosporis; sporidiis biserialibus, ellipticis, rotundatis, medio uniseptatis, nec constrictis, hyalinis, 20 \approx 7.

Hab. in ramis Tiliæ et Salicis in Sydenham Britannia.

*61. **D. Chorostate Briardiana** Sacc. Miscell. Myc. I, pag. 3. — 6556

Peritheciis subcutaneo-prominulis, in acervulos valseos, exiguos, gregarios dense congestis, globulosis, $\frac{1}{3}$ mm. diam., ostiolis breviusculis, vix convergentibus, peridermium vix perforantibus; ascis oblongo-fusoideis, subinæqualibus, 44-52 \approx 6-8, octosporis; sporidiis monostichis vel distichis, oblongo-ellipsoideis, utrinque obtusiusculis, 12-14 \approx 4, medio leniter constrictis tenuiterque 1-septatis, 4-guttatis, hyalinis.

Hab. in ramis emortuis salicinis pr. Troyes Gallia (BRIARD).

*63. **D. Chorostate elephantina** Cooke et Harkn. in Grevillea XIV, 6557

pag. 8. — Pustulis valsæformibus, rarissime dispersis; peritheciis cortice immersis vel ligno adnatis, globosis, atris, ostiolis tenuibus, elongatis, flexuosis, cylindræcis, emergentibus; ascis clavatis, octosporis; sporidiis lanceolatis, quadrinucleatis, mox uniseptatis, hyalinis, 12 \approx 3,5.

Hab. in caulibus Geranii in California (HARKNESS).

*64. **D. Chorostate neglecta** (Duby) Berl. et Vogl. *Valsa neglecta* 6558

Duby in Herb. Currey. — Cooke in Grevillea XIV, p. 47. — Stromate epidermide tecto, nigro nigrescenteve, ovato aut globoso, in ramis junioribus nullo, peritheciis 6, compresso-ovatis, verticalibus,

dense congestis, basi applanatis; ostioliis exertis, fragilibus, atherimis, cylindricis, plus minus elongatis, truncato-papillatis, interdum inflexis, sæpe lateralibus; ascis cylindricis, angustis; sporidiis ovoideis, hyalinis, uniseriatis, nucleolatis, rarissime uniseptatis.

Hab. ad caules siccos *Genistæ tinctoriæ* in Britannia.

- * 102. **D. Euporthe silvestris** Sacc. et Berl. *Miscell. Myc.* II, p. 27, 6559
n. 121, tab. VIII, fig. 7. — Peritheciis laxè gregariis, ligno semi-infossis et peridermio tectis, linea angusta, endoxyla, atra, hinc inde circumscriptis, globulosis, $\frac{1}{2}$ mm. diam. ostioliis vix emergentibus; ascis tereti-fusoideis, 45-50 \approx 6-8; sporidiis octonis, distichis v. oblique monostichis, fusoideis, constricto 1-septatis, 14-15 \approx 5, 4-guttatis, hyalinis, utrinque initio minute hyalino-apiculatis.

Hab. in sarmentis *Vitis viniferæ silvestris*, Cervarese Italiæ borealis.

- * 115. **D. Euporthe gorgonoidea** Cooke et Hark. in *Grevillea* XIII, 6560
p. 18. — Stromate effuso, cortice facile solubili tecto, ligni superficiem nigrificante v. crustam interruptam sistente, intus nigro-limitato; peritheciis globosis, ligno immersis, plerumque dense stipatis; ostioliis cylindricis, gracilibus, flexuosis, maxime elongatis; ascis cylindrico-clavatis, octosporis; sporidiis fusiformibus, biserialis, rectis, quadri-nucleatis, demum 2-4 cellularibus, hyalinis, 15-17 \approx 3.

Hab. in ramis emortuis *Acaciæ* in California (HARKNESS). — Diversa a *D. medusæa* et *D. fasciculata*.

136. **D. Euporthe ceuthosporioides** (Berk.) Sacc. *Syll.* I, pag. 646. — 6561
Forma **Lauri nobilis** Pass. in litt. ad Brunaud. — A typo differt stromate minus nitente, ceterum simillimo et piceo (forte initio rufescente, ut mavult cl. Berkeley), ascis minoribus, 60 \approx 7-8, sporidiisque quoque minoribus, 11-13 \approx 3,5-4.

Hab. in foliis *Bruni Lauri cerasi*, *Saintes Galliæ* (BRUNAUD). — In utraque forma sporidia sunt utrinque obtusiuscula, sed videntur mucronulo mucoso, perexiguo aucta.

- * 137. **D. Euporthe scobinoides** Schulz. et Sacc. in *Rev. Myc.* 1884, 6562
Schulz. *Ill. Fung. Slav.* n. 803. — Peritheciis laxè gregariis, ligno subimmutato vel superficie leniter infuscato penitus immersis, linea stromatica nigra, per lignum sinuose excurrente, circumscriptis, globulosis 0,3-0,4 mm. diam., collo teretiusculo, in ostiolum erumpens, obtusiusculum desinente; ascis fusoideis, sessilibus, octosporis, 15 \approx 8; sporidiis distichis, oblongo-fusoideis, utrinque obtusiusculis, 4-guttatis, medio-constrictis, 10-14 \approx 3, hyalinis.

Hab. in ramis dein decorticatis Fraxini excelsioris pr. Vinkovce Slavoniæ.

- * 174. **D. Euporthe immutabilis** Cooke et Harkn. in Grevillea XIV, 6503
pag. 9. — Stromate varie effuso interruptoque, caulis superficiem
vix decolorante, linea nigra in ligno limitato; peritheciis sparsis
globosis, ostiolis brevibus, punctiformibus; ascis clavatis, octosporis;
sporidiis sublanceolatis, biserialibus, rectis curvulisve, 2-4 nucleatis, uniseptatis, hyalinis, 12-14 \approx 4.

Hab. in caule Scrophulariæ in California (HARKNESS).

174. **D. Euporthe Tulasnei** Niessl. — Sacc. Syll. I, pag. 657, forma 2526
Galegæ Wint. Contr. Fl. Myc. Lus. V, pag. 18. — Differt a forma
typica; ostiolis interdum valde elongatis, nodulosis, flexuosis; sporidiis
parum crassioribus, semper medio constrictis.

Hab. in caulibus putridis Galegæ officinalis cum spermogoniis, Coimbra in Lusitania (MÖLLER). — An species nova?

- * 185. **D. Euporthe brachystoma** Sacc. et Malbr. Fung. Gall. ser. V, 6504
n. 2163. — Stromate effuso, epidermidem decolorante lineaque sinuosa,
nigra circumscripto; peritheciis gregariis, cortice tectis lignoque
adnatis, globoso-depressis, $\frac{1}{5}$ - $\frac{1}{4}$ mm. diam., nigris; ostiolo brevissimo,
vix emergente; ascis fusoidis, sessilibus, aparaphysatis, octosporis,
70 \approx 7; sporidiis distichis, ovato-fusoidis, 12 \approx 3,5, rectis, utrinque
obtusiusculis, 4-guttatis, dein 1-septatis, hyalinis. — Spermogoniis
Phomam Dianthi sistentibus; peritheciis in macula picea plerumque
innatis, epidermide velatis, globoso-depressis; spermatis ovato-oblongis,
7 \approx 3, biguttatis, hyalinis, stipitellis filiformibus, curvis, 10-12 \approx 1-2
suffultis.

Hab. in caulibus emortuis Dianthi barbati, Brionne Galliæ. — Hinc
Diaporthi intermedicæ, illinc *D. Tulasnei* affinis species.

- * 188. **D. Euporthe Kellermanniana** Winter in Torr. bot. Club. 1885, 6505
p. 49. — Stromate nullo; peritheciis profunde immersis, depresso
globosis, membranaceis, atris, 210-260 μ . latis, ostiolo erumpente
præditis; ascis oblongo-fusoidis, 8-sporis, 35-40 \approx 5-7; sporidiis
oblongis, sæpe inæquilateralibus, utrinque rotundatis vel parum
acutiusculis, medio uniseptatis, non constrictis, 4-guttulatis, 9-11
 \approx 3-3,5.

Hab. ad culmos putridos Zeæ Maydis pr. Lexington Amer. bor. (W. A. KELLERMANN).

- * 199. **D. Tetrastaga dolosa** Sacc. et Roum. in Rev. Myc. 1883, tab. 6506
39, fig. 5. — Stromate vix ullo manifesto; peritheciis dense et

æqualiter gregariis, cortice immersis, globulosis, vix $\frac{1}{2}$ mm. diam., intus griseis, ostiolo brevissimo, obtuso, perforante; ascis fusoides, 60-70 \approx 10-12, octosporis; sporidiis distichis, fusoides, utrinque obtusiusculis, medio constricto-1-septatis, 4-guttatis, hyalinis, 10-12 \approx 4.

Hab. in ramis junioribus Robinæ pseudoacaciæ. — A *D. oncostoma* diversissima.

*234. **D. Tetrastaga priva** Sacc. et Roum. in Rev. Myc. 1884. — Stromate effuso sed vix manifesto, lineaque nigra privo; peritheciis gregariis cortice immersis, globosis, $\frac{1}{3}$ mm. diam., ostiolo erumpente sed vix exstante; ascis fusoides, aparaphysatis, 65 \approx 8, octosporis; sporidiis distichis, fusoides, rectis, utrinque obtuse attenuatis, 16-18 \approx 4,5-5, medio constricto-1-septatis, 4-guttatis, hyalinis.

Hab. in ramis corticatis Fraxini Orni. — A cæteris speciebus fraxinicolis stromate obsoleto, linea nigra deficiente, sporidiis ratione majusculis mox dignoscitur.

*237. **D. Tetrastaga interrupta** Niessl Contr. Fl. Myc. lus. p. 17. — Stromate maculiformi, diatrypeo, toto immerso, haud expanso, atropurpureo, interdum expallente, linea atra limitato; peritheciis paucis, in singulo stromate sæpe solitariis, in corticis parenchymate nidulantibus, depresso globosis; ostiolo minimo abbreviato, vix erumpente; ascis lanceolato-clavatis, stipite brevi, 8-sporis, 50-60 \approx 6-7; sporidiis laxe-distichis, fusiformibus, acutiusculis, rectis sed parum inæquilateralibus, medio septatis, haud constrictis, 4-guttulatis, hyalinis, 9-11 \approx 2-3.

Hab. ad ramulos emortuos Tecomæ radicans, in horto botanico, Coimbra Lusitanicæ. — A *Diaporthe Lebiseyi* differt: stromatibus exiguis, peritheciis erostellatis, ascis magis elongatis.

*260. **D. Tetrastaga santonensis** Sacc. Fung. Gall. ser. V, n. 2162. — Stromate obsoleto; peritheciis epidermide translucida tectis, globoso-depressis, nigris $\frac{1}{3}$ mm. diam.; ostiolo brevissimo, obtuso perforante; ascis fusoides, sessilibus, aparaphysatis, 55-60 \approx 12, octosporis, apice minuto, 2-foveolato; sporidiis distichis vel oblique monostichis, fusoides, inæquilateralibus, 1-septatis, leniter constrictis, 15-18 \approx 5, 4- dein 2-guttatis, hyalinis, utrinque appendicula brevi, acuta, hyalina ornatis.

Hab. in cortice ramulorum Salicis vitellinæ, Saintes Gallicæ (BRUNAUD). — Quum stroma sit indistinctum, ad *Gnomonia* genus nutat, cui fructificatione quoque accedit; at et cum *Diaporthe salicella* et *D. Spina* affinitas manifesta.

- *273. **D. Tetrastaga Asclepiadis** Ell. et Ev. in Bull. Torr. bot. Club. 1883, p. 98. — Stromatibus e maculis nigris superficiem caulium occupantibus formatis, 0,5 cm. longis, vel confluentibus, intus linea nigra limitatis; peritheciis sparsis, globosis, 0,25 mm. diam. in substantia caulis non omnino immersis; ostioli obtusiusculis, cylindraceis, crassis, 250-300 μ . longis; ascis 35-40 \approx 9, p. sp.; sporidiis distichis, ellipsoideis, medio constrictis, 3-4 nucleatis, subobtusis, 10-12 \approx 3-4.

Hab. in caulibus emortuis *Asclepiadis tuberosæ*, Newfield Americæ borealis.

- *286. **D. Tetrastaga Lupini** Harkn. New Calif. Fungi p. 24. — Peritheciis aggregatis, ostioli brevibus crassiusculis; ascis delicatis, fusoideis, 15 \approx 4; sporidiis fusoideis, 1-septatis, 4-guttatis, leniter constrictis; loculis sæpius inæqualibus, mox septo divisus, 55-60 \approx 9. 6570

Hab. in ramis *Lupini arborei*, San Francisco Californiæ.

- *290. **D. Tetrastaga Geranii** Cooke et Harkn. in *Grevillea* XIV, p. 8. 6571
— Peritheciis gregariis, cortice immersis, sæpe nigro-limitatis, subglobosis, atris, initio tectis, dein rimoso-fissuratis; ostioli brevibus, emergentibus; ascis clavatis; sporidiis lanceolatis, quadri-nucleatis, hyalinis, 15-16 \approx 4.

Hab. in caulibus *Geranii* in California (HARKNESS).

Sect. 5. Phæodidymæ Sacc.

PROTOVENTURIA Berl. et Sacc. in Soc. Veneto. — Trentina 1886 (Etym. a *protos* primus et *Venturia*). *Venturia* De Not. Atti VI, Riun. Scien. Ital. pag. 484. — Perithecia superficialia, maiuscula, carbonacea, fragilia, globoso-depressa, vertice setis rigidis, aterrimis, longiusculis vestita, basi setulis subtilioribus, numerosissimis, pallidis, subtortuosis, septatis cincta, poro rotundo, amplo pertusa. Asci oblongi vel elliptici, basi abrupte attenuati, in pedunculum brevissimum desinentes, octospori. Paraphyses nullæ vel (verisimiliter) obsolete. Sporidia constricto-didyma, bilocularia, loculis subæqualibus, saturate fuliginis.

1. **Protoventuria Rosæ** (De Not.) Berl. et Sacc. in Soc. Ven. Trent. 1886, 6572
Venturia Rosæ De Notaris Atti VI Riun. Sc. It. p. 484, t. I, f. I, et Giorn. Bot. It. 1864, p. 332. — Ces. et De Not. Schema Sfer. It. pag. 51, *Pyrenophora Rosæ* Sacc. Syll. II, p. 285. — Peritheciis sparsis vel leniter gregariis, globosis vel globoso-depressis,

majusculis, superficialibus, poro amplo pertusis, sursum setis rigidis, aterrimis, apice acutis vestitis, basique filamentis mycelicis numerosissimis, 4 μ . diam., longis, sinuosis, simplicibus, sæpe 4-5 coalitis, septatis, pallidioribus cinctis; ascis amplis, saccatis, sursum obtusis, basi abrupte attenuatis atque in stipitem brevissimum desinentibus, tunica crassa præditis, 95-105 \approx 24-27, octosporis; sporidiis inordinatis vel distichis, majusculis, 28-32 \approx 13-15, uniseptatis, ad septum constrictis, loculis subæqualibus vel superiore, quidquam majore obtusioreque, saturate olivaceo-fuligineis.

Hab. in ramulis emortuis Rosæ alpinæ in Monte Cenisio Italiæ borealis.

DIDYMOSPHERIA Fuck. — Sacc. Syll. I, p. 701.

*1. **Didymosphæria conoidella** Sacc. et Berl. Misc. Myc. II, n. 26. 6573

— Peritheciis laxè gregariis, epidermide secedente nudatis, e globoso conicis, atris, sæpe concentrice, obsolete plicatis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., ostiolo acutiusculo; ascis clavulatis, modice stipitatis, paraphysatis, octosporis, 80-90 \approx 12; sporidiis distichis, ellipsoideo-oblongis, constricto-1-septatis, 15-18 \approx 6-7, fuligineis.

Hab. in ramulis emortuis Capparidis sarmentosæ, Teviot Australiæ. — A *Did. conoidea* sporidiis duplo fere longioribus mox distinguenda.

*16. **Didymosphæria sarmenti** (Cooke et Hark.) Berl. et Vogl. *Sphæ-* 6574

ria sarmenti Cooke et Harkness in Grevillea XIII, pag. 19. — Sparsa; peritheciis tectis, subglobosis, atris, levibus, demum applanatis; ostiolo brevi punctiformi; ascis cylindrico-clavatis; sporidiis ellipticis, uniseptatis, medio non constrictis, fuscis, 12 \approx 5.

Hab. in sarmentis Vitis in California (HARKNESS).

17. **Didymosphæria circinata** (Fuck.) Wint. in Hedwigia 1886, p. 23. 1577

Gnomoniella? circinata Sacc. Syll. I, p. 416. — Sporidia conglobata, oblonga, bicellularia, viridula, 9-10 \approx 3.

*18. **Didymosphæria serrulata** E. et M. in Journ. of Bot. 1885, p. 99. 6575

— Maculis dealbatis; peritheciis sparsis vel gregariis, epidermide nigrescente, demum ostiolo brevi, obtuso, erumpente perforata, tectis, lenticularibus $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam.; ascis cylindricis, paraphysibus filiformibus obvallatis, 100-112 \approx 10-12; sporidiis monostichis, hyalinis, primum 3-4-nucleatis dein brunneis et 1-septatis, 18-20 \approx 5-6, initio mucò obvolutis.

Hab. in petiolis Sabalis serrulatæ, maculas pallidas efformans in Amer. bor.

19. **Didymosphæria Genistæ** Fuck. — Sacc. Syll. I, p. 705, Winter 2662
in Hedwigia 1886, p. 23. — Asci 43-48 \approx 12; sporidia 14-16 \approx 4-5.
- *19. **Didymosphæria Matthiolæ** (Fuck.) Berl. et Vogl. *Pleospora Mat-* 6576
thiolæ Fuck. in Reis. nach Nordpolarm. III, et Oud. Contr. Fl.
Myc. Now. Seml. pag. 152, tab. II, fig. 7. — Peritheciis sparsis,
punctiformibus, epidermide tectis, atris; ostiolo conico, obtuso, pro-
minulo, atro; ascis maturis ovatis seu subglobosis, 30 \approx 24, imma-
turis basi contractis, superiore parte ovato-ventricosis, 54 \approx 24,
octosporis; sporidiis stipatis, utrinque obtusis, antice parum obtu-
sioribus crassioribusque, rectis, uniseptatis, 20 \approx 8, demum pallide
fuscis.
Hab. in foliis Matthiolæ nudicaulis, Nowaja Semlja.
- *20. **Didymosphæria phyllogena** Winter. in Journ. of Myc. 1885, 6577
pag. 121. — Peritheciis in macula rotundato-angulata vel irregu-
lari, fusca, lineâ atrâ cincta, determinata, usque 8 mm. diam., hy-
pophylla immorsis, epidermidem perforantibus, punctiformibus, te-
nuissime membranaceis, 100 μ . diam.; ascis clavatis, brevissime pe-
dicellatis, 8-sporis, 50-70 \approx 9-11; sporidiis distichis, (rarius submo-
nostichis), oblongis, inæquilateralibus, utrinque alternatis, bicellu-
laribus, ad septum constrictis, fuscidulis, 14-16 \approx 5; paraphysibus
crassis, cylindræis, septatis.
Hab. ad folia delapsa Liriodendri tulipifæræ, Missouri. 2171
- *21. **Didymosphæria fenestrans** (Duby) Winter in Hedwigia 1886,
p. 24, Huc sec. cl. Winter ducendæ sunt *Didymella Epilobii* Sacc.
Syll. I, pag. 556, *Gnomonia Epilobii* Sacc. Syll. I, pag. 561, et
Gnomonia fenestrans Sacc. Syll. I, p. 562.
- *22. **Didymosphæria Dryadis** (Fuck.) Berl. et Vogl. *Pleospora Drya-* 6578
dis Fuck. Die 2.^o Deutsche Nordpolarf. II, 93. — Oudem. Contr. Fl.
Myc. Now. Seml. p. 152, tab. II, fig. 6. — Peritheciis in folio-
rum aridorum, nondum delapsorum pagina superiori sparsis, pun-
ctiformibus, globoso-conicis, atris, demum subliberis, ostiolis per-
foratis; ascis oblongo-ovatis, oblique stipitatis, tunica crassa præ-
ditis, octosporis, 88 \approx 32; sporidiis subdistichis, oblongis, utrinque
obtusis, uniseptatis, ad septum constrictis, loculis uniguttulatis, 30-
32 \approx 12, primo hyalinis, demum flavo-fuscis.
Hab. in foliis exsiccatis Dryadis octopetalæ, Nowaja
Semlja.
- *23. **Didymosphæria Hakeæ** Winter Contr. Fl. Myc. Lus. V, p. 14. 6579
— Peritheciis gregariis, sine macula, immersis, depresso-globosis,
ostiolo punctiformi, prominulo instructis, membranaceis, fusco-atris,

0,25 mm. diam.; ascis oblongo-cylindræcis, utrinque attenuatis, in stipitem brevem productis, 8-sporis, 55-75 \approx 9-11; sporidiis distichis, oblongis, supra medium uniseptatis et profunde constrictis, inæquilateralibus, utrinque acuminatis, binucleatis, fuligineis, 15-17 \approx 4,5-5; paraphysibus filiformibus.

Hab. ad Hakeæ salignæ folia arida rarissime prope Coimbra Lusitaniæ (MOLLER).

- *28. **Didymosphæria lusitanica** (Niessl) Berl. et Vogl. *Phorcys lu-* 6580
sitanica Niessl Contr. Fl. Myc. Lus. p. 15. — Peritheciis sparsis, omnino immersis, clypeatis, majusculis, 0,4-0,5 mm. diam., globosis, atris, ostiolo minuto; ascis elongato-cylindricis, pedicellatis, membrana interna apice valde incrassata, 8-sporis, 120-140 \approx 10-12; sporidiis monostichis, oblongis, utrinque rotundatis, plerumque curvatis vel quasi medio infractis, uniseptatis et valde constrictis, guttulis binis, atro-fuscis, 18-22 \approx 8-10; paraphysibus tenuibus, apice ramosis; ascis sporidiisque ut in *Delitschia*, sed peritheciis profunde innatis, tectis.

Hab. in culmis aridis Donacis arundinaceæ, Galla prope Figueira da Foz Lusitaniæ (MOLLER).

- *29. **Didymosphæria arundinicola** Bizz. Fung. Ven. novi v. crit. p. 2, 6581
t. II, f. 2. — Peritheciis minutissimis, subsuperficialibus, ostiolatis; ascis oblongo-clavatis, 100-110 \approx 21-23, octosporis; sporidiis bilocularibus, non vel vix constrictis, oblongo-ellipsoideis, utrinque hyalino-apiculatis, 26-28 \approx 12 (sine apiculo), initio hyalinis, biguttatis, dein fuligineis.

Hab. in culmis exsiccatis et putridis Arundinis Donacis in Horto bot. patavino Ital. bor.

- *30. **Didymosphæria rhytidosperma** Speg. Fungi Guar. Pug. I, n. 223. 6582
— Peritheciis sparsis v. laxissime subseriatis, epidermide areolatim nigrefacta tectis eique arcte adnatis, prominulis, hemisphæricolenticularibus, majusculis, 1-1,2 mm. diam., ostiolo minuto, umbonatum, vix epidermidem perforante, non exerto donatis, crassiuscule membranaceo-carnosulis, sordide albescenti-ceraceis, circa ostiolum fusciscentibus sæpeque coriacellis, contextu prosenchymatico-fibrosulo, subradiante, parum distincto, albo-fusciscente; ascis cylindræcis, apice obtusissime rotundatis, postice breve attenuato-stipitatis, 120-130 \approx 7-8, jodii ope nulla, paraphysibus gracillimis, obscure septulatis obvallatis, 8-sporis; sporidiis recte monostichis, utrinque acute rotundatis, rectis, medio constrictis; loculis æqualibus, non v. 1-2 crasse guttulatis, episporio pellucido, pulchre fuli-

gineo, longitudinaliter dense rugoso-striatis, rugis simplicibus, rectis v. vix helicoideis.

Hab. ad culmos dejectos emortuos Bambusaceæ cujusdam in dumetis prope Carapegua Bras. — Species pulcherrima ac distinctissima, characteribus peritheciis subnectriacei, facile ut novum genus inter *Nectriaceas* adhibendum.

- *31. **Didymosphæria Spatharum** Wint. in Hedwigia 1885. — Peritheciis sparsis, immersis, depresso-globosis, ostiolo late conoideo, obtuso præditis, erumpentibus, atris, membranaceis, matricem tegentem parum nigrificantibus, 240-270 μ . latis; ascis cylindraceutis, deorsum in stipitem brevem attenuatis, 8-sporis, 45-52 \approx 7; sporidiis oblique mono-vel partim subdistichis, oblongis, utrinque rotundatis, medio vel supra medium uniseptatis, non vel perparum constrictis, fuliginis, 9-10 \approx 3,5-4; paraphysibus gracilibus, filiformibus. 6583

Hab. in spathis aridis Bobartiæ spathaceæ, in monte Tabulari Promont. Bon. Spei (MAC-OWAN).

- *32. **Didymosphæria Typhæ** Peck 38 Rep. Stat. Mus. p. 104. — Peritheciis minutis, punctiformibus, subglobosis, epidermide ostioli minute papillatis perforata tectis; ascis cylindraceutis, 62-85 \approx 8-10; sporidiis oblongis vel ellipticis, monostichis uniseptatis, non vel vix septo constrictis, 10-15 \approx 5-6, coloratis; paraphysibus filiformibus. 6584

Hab. ad basim foliorum emortuorum *Thyphæ latifoliae*, Guilderland Amer. bor.

- *34. **Didymosphæria circinans** Harkn. New Calif. Fungi p. 24. — Hypophylla; peritheciis gregariis in maculis circularibus, 1-6 mm. diam., tectis, circa ostiola matricem maculantibus; ascis octosporis, cylindraceutis, sessilibus, 66 \approx 6, paraphysibus filiformibus cinctis; sporidiis ovoideis vel oblongis, uniseptatis, leniter constrictis, olivaceo-brunneis, 5-7 \approx 3-4. 6585

Hab. in foliis Eucalypti Globuli in California.

- *50. **Didymosphæria Cupula** (Ell. et Ev.) Berl. et Vogl. *Sphaeria cupula* Ell. et Ev. in Torr. bot. Club. 1883, p. 90. — Peritheciis sparsis, innatis, epidermide nigrescente, ostiolo papilliformi excepto, tectis, primum convexo-hemisphaericis, dein siccitate collapsis; ascis 75 \approx 7; sporidiis ellipsoideis, brunneis, uniseptatis, monostichis, 9,5-11,5 \approx 4,5-5. 6586

Hab. in foliis adhuc pendulis et in ramulis quercinis, Newfield Amer. bor.

- *56. **Didymosphæria Ceanothi** (Cooke et Harkn.) Berl. et Vogl. *Sphæ-* 6587
ria Ceanothi Cooke et Harkn. in *Grevillea* XIII, p. 19. — Te-
 cta, sparsa; peritheciis globoso-applanatis, atris, breviter papilla-
 tis; ascis amplis, clavatis, octosporis; sporidiis ellipticis, unisepta-
 tis, medio constrictis, atro-fuscis, $35 \approx 15$.

Hab. in sarmentis *Ceanothi* in California (HARKNESS).

- *60. **Didymosphæria Bryonthæ** (Arnold) Winter in Hedw. 1886, p. 25, 6588
Endococcus Bryonthæ Arnold in *Lichenol. Fragment.* XVI, p. 26,
 tab. II, fig. 15, in *Flora* 1874. — Peritheciis gregariis, minutis,
 subglobosis, valde convexis, prominulis, vertice pertusis; ascis fere
 cylindræis (sec. icon. clavatis, deorsum stiptiformi-attenuatis),
 8-sporis; paraphysibus distinctis, tenuibus capillaribus; sporidiis
 inordinatis, oblongis vel clavatis, bicellularibus, haud vel parum con-
 strictis, pallide fuscidulis, $12-16 \approx 4-5$.

Hab. in disco apotheciorum *Lecanoræ subfuscæ* var. *bry-
 onthæ* in Germania.

- *61. **Didymosphæria microstictica** (Leighton) Winter in Hedw. 1886, 6589
 p. 25, *Verrucaria microstictica* Leight. *Lichen. Flora of Great-
 Britain.* Edit. II, p. 493. — Peritheciis minutissimis, plus minus-
 ve immersis, globosis, vertice plano-convexo, pertuso, fusco-atris;
 ascis cylindricis, breve stipitatis, 8-sporis, $78-88 \approx 10$; sporidiis
 mono-vel subdistichis, elliptico-oblongis, bicellularibus, medio con-
 strictis, atris, opacis, $14 \approx 7$; paraphysibus numerosis, filiformibus,
 subramosis.

Hab. in thallo *Acarosporæ fuscatae* et *A. cervinæ* in
 Germania et Britannia.

- *62. **Didymosphæria (?) Sauteri** (Körber) Winter in Hedw. 1886, p. 25, 6590
Polycoccum Sauteri Körber *Parerga* p. 470. — Peritheciis mi-
 nutissimis, conferte stipitatis, maculas subatras formantibus, demum
 sæpe confluentibus, semiimmersis, globosis, ostiolo umboato, fusco-
 atris; ascis cylindræis, substipitatis, 8-sporis, $100 \approx 15-16$; spo-
 ridiis monostichis, dacryoideis, cellula superiori multo latiori lon-
 giorique, fuscis, $16-19 \approx 9-10,5$.

Hab. in *Stereocaulo condensato* et *S. alpino* atque in
Lecidea fumosa in Germania.

- *63. **Didymosphæria Sporastatiæ** (Anzi) Winter in Hedw. 1886, p. 25, 6591
Polycoccum Sporastatiæ Arnold in *Flora* 1874, p. 144, tab. II,
 fig. 9, *Tichothecium Sporastatiæ* Anzi *Neosynbolæ* pag. 17. —
 Peritheciis sparsis, fere omnino immersis, globosis, vertice tantum
 parum convexo pertusoque prominulis, atris; ascis oblongis, 17μ .

crassis; sporidiis distichis, oblongo-clavatis, inæqualiter didymis, medio parum constrictis, fuscis, 17-23 \approx 7-8.

Hab. in thallo Sporastatiæ cinereæ in Germania.

TICHTOTHECIUM Flotow. in Wint. Hedw. 1886, p. 15 (Etym. *teichos* murus et *thecium* pro perithecio). — Perithecia plus minusve immersa, demum emergentia, minuta, corneo-carbonacea, atra, poro simplici pertusa. Paraphyses mucosæ, interdum indistinctæ vel nullæ. Asci 4-8-vel polyspori. Sporidia bi-vel quadricellularia, fusca.

I. Asci 4-8-spori; sporidia uniseptata.

1. **Tichothecium gelidarium** (Mudd.) Berl. et Vogl. *Sphæria gelidaria* 6592
Mudd. Manual of Brit. Lichens p. 130. — Peritheciis nigris, maculiformibus, sparsis, nucleo albo farctis; paraphysibus distinctis, laxis, flexuosis, mucosisque; ascis brevibus, cylindræis, 4-sporis, ad utramque extremitatem sporidiorum constrictis; sporidiis subrotundis vel late oblongis, irregularibus, protoplasmate obscure brunneo vel fuligineo farctis, indistincte bilocularibus, 10 \approx 6.
Hab. in thallo Squamariæ gelidæ in Britannia.
2. **Tichothecium perpusillum** (Nylander) Arnold Lichenol. Fragm. 6593
XVI, p. 27 et in Wint. Hedw. 1886, p. 17, *Endococcus perpusillus* Nyl. Exposit. Pyrenoc. p. 64. — Peritheciis minutis, sessilibus, fere globosis, ostiolo haud impresso, indistincte pertuso, atris, opacis, scabris, 0,1-2 mm. diam.; ascis elongato-clavatis vel fusiformibus, 8-sporis; sporidiis ellipticis, medio haud constrictis, sæpe parum curvatis, utrinque attenuatis rotundatisque, dilute fuscis, 15-21 \approx 6-7.
Hab. in *Aspicilia cinerea* et *A. gibbosa* in Germania et Britannia. — Teste Cl. Leighton, Lichen. of Great Brit. Edit. III, pag. 496, perithecia sunt minutissima, immersa, depresso globosa, atra; sporidia octona, oblonga, fusca, bicellularia, 14-19 \approx 6-7.
4. **Tichothecium Stigma** Körber Parerga Lichenol. p. 468 et Wint. in 6594
Hedw. 1886, pag. 16. — Peritheciis minutissimis, punctiformibus, immersis, demum parum prominulis, atris, opacis, ostiolo indistincto, supra thallum dispersis; ascis clavatis vel fusiformi-clavatis, 8-sporis; sporidiis ellipticis, utrinque acutiusculis, medio sæpe subconstrictis, bicellularibus, interdum cellula superiori parum majori, fuligineis vel dilute rufo-fuscis, 14-20 \approx 5-6.

Hab. in thallo Rhizocarpi geographici et Psoræ lamp-phoræ in Germania.

5. **Tichothecium macrosporum** Hepp. in litt. sec. Arnold Lichenol. 6595
Ausfl. III, p. 960, et Wint. in Hedw. 1886, p. 17. — Peritheciis initio omnino immersis, demum vertice prominulis, globosis, atris, poro distincto pertusis, circ. $\frac{1}{10}$ mm. diam., plerumque gregariis; ascis oblongo-clavatis, deorsum longe attenuatis, 8-sporis, 60-65 \approx 17-21; sporidiis subdistichis, elliptico-oblongis, utrinque attenuato-rotundatis, uniseptatis, haud vel vix constrictis, fuscis, 16-24 \approx 6-8.

Hab. in thallo Rhizocarpi geographici et R. alpicoli in Germania.

6. **Tichothecium Arnoldi** (Hepp.) Körber Parerga Lichenol. p. 469 et 6596
in Hedw. 1886, p. 16. — Peritheciis minutissimis, punctiformibus, confertissime stipatis, immersis, globosis, ostiolo indistiacto, atris, substantia molliuscula, viridi-brunnea faretis; ascis breviter clavatis; sporidiis 6-3, soleæformibus, bicellularibus, cellula superiore majore, viridi-fuscis, 8-11 \approx 3-4.

Hab. in thallo Urceolarix seruposæ in Germania.

7. **Tichothecium calcaricolum** (Mudd.) Arnold Lichenolog. Ausfl. XI, 6597
p. 521 et Wint. in Hedw. 1886, p. 16, *Microthelia calcaricola* Mudd. Manual p. 306. — Peritheciis media magnitudine, irregulariter sparsis, sessilibus vel basi immersis, globosis, poro submagno pertusis, atris; ascis clavato-subventricosis, 8-sporis; sporidiis elliptico-oblongis, bicellularibus, fuscis, 19-20 \approx 6; paraphysibus gelatinosis.

Hab. in thallo Aspiciliae calcareae, A. cinerea et A. gibbosæ in Germania et Britannia — Sec. Arnold sporidia 15-18 μ . tantum longa sunt. — *var. Sendtneri* Arnold Lichenol. Ausfl. XI, p. 37: peritheciis hemisphæricis, prominulis, atris; sporidiis utrinque obtusis, fuscis, bicellularibus, 15-18 \approx 6-8, octonis. In thallo Polyblastix Sendtneri in Germania.

8. **Tichothecium gemmiferum** (Tayl.) Körb. Parerga Lichen. p. 468, 6598
et Wint. in Hedw. 1886, pag. 16, *Verrucaria gemmifera* Taylor in Mackay, Flora hibern. II, p. 95, *Microthelia propinqua* Körb. System. p. 374. — Peritheciis sparsis, immersis, minutissimis, globosis, vertice umbilicato, demum collapsis, poro simplici pertusis, opace atris, 0,1 mm. diam.; ascis clavatis, crasse tunicatis, 8-sporis, 30-36 \approx 10-12; sporidiis ellipticis vel elliptico-oblongis, obtusis, bicellularibus, plerumque haud vel perparum constrictis, fuscis, 8-12 \approx 3-4; paraphysibus coalitis.

Hab. in thallo crustaceo lichenum variarum in Germania.

9. **Tichothecium Complanatæ** (Arnold) Wint. in Hedw. 1886, p. 17, 6599
Endococcus Complanatæ Arnold Lichenol. Ausfl. in Tirol. X, p. 13.
 — Peritheciis minutissimis, punctiformibus, parum prominulis, atris; sporidiis octonis, oblongis, fusiformibus, utrinque plus minus attenuatis, rectis vel parum curvatis, bicellularibus, fuscis, 15-17 \approx 4-5; paraphysibus nullis.

Hab. in thallo Lecanoræ complanatæ in Germania.

10. **Tichothecium squamarioides** (Mudd.) Wint. in Hedw. 1886, p. 17, 6600
Sphaeria squamarioides Mudd. Manual of Brit. Lich. p. 130, *Polyococcum squamarioides* Arnold Lichenol. Fragm. XVI, p. 29.
 — Peritheciis aggregatis, acervulos minutos formantibus, punctiformibus, atris, nucleo albo-cinereo; ascis elongato-oblongis vel oblongo-subclavatis, 8-sporis; paraphysibus indistincte diffluentibus, mucosis; sporidiis obtuse fusiformibus vel fusiformibus, bicellularibus, interdum medio subconstrictis, obscure olivaceis vel sub-
 atris, 8,5-11 \approx 3-4.

Hab. in thallo Placodii gelidi in Germania et Britannia.

II. Asci polyspori; sporidia uniseptata.

11. **Tichothecium nanellum** (Ohlert) Arnold, Lichenol. Fragm. XVI, 6601
 p. 27 in Flora 1874 et Wint. in Hedw. 1886, p. 17, *Endococcus nanellus* Ohlert Lusamm. Lich. Preuss. pag. 44. — Peritheciis nigro-fuscis, globosis, poro pertusis, 90-105 μ . diam., inter squamulas thallinas et tomentum *Stereocauli tomentosi* arescentibus; ascis clavatis, apice acuminatis, polysporis, 30 \approx 12; sporidiis oblongis, utrinque acutis, continuis vel bicellularibus, fuscis.

Hab. in Stereocaulo tomentoso in Germania.

12. **Tichothecium cerinarium** (Mudd.) Berl. et Vogl. *Sphaeria ceri-* 6602
naria Mudd. Man. of Brit. Lich. p. 136. — Peritheciis minutis, punctiformibus, semiimmersis, atris, isolatis, 10-12 disco apotheciorum insidentibus, nucleo mucoso, pallido faretis; paraphysibus nullis; ascis non visis; sporidiis numerosis, oblongis, uniseptatis, medio leniter constrictis, pallide luteis, 4 \approx 2.

Hab. parasitice in apotheciis *Callopismatis cerini* in Britannia.

III. Asci 4-8-spori; sporidia triseptata.

13. **Tichothecium erraticum** Mass. Symmicta Lich. p. 94 et Wint. in 6603
 Hedw. 1886, p. 15, *Endococcus erraticus* Nyland. Lichenes Scandinaviæ p. 283. — Peritheciis semiimmersis, globosis, ostiolo indi-

stincto, impresso, nitide atris, circ. 0,05 mm. diam.; ascis initio oblongis, subcylindrico-clavulatis, demum in parte inferiori ventricosis, fere obovoideis, polysporis; sporidiis late ellipticis vel subglobosis, medio haud constrictis, bicellularibus, fuscis, 3,5 \approx 2,5.

Hab. in thallo crustaceo Lichenum variarum in Germania.

14. **Tichothecium pygmæum** Körb. Parerga Lichen. p. 467 et Wint. in 6604

Hedw. 1886, p. 15. — Peritheciis sparsis, totis vel pro maxima parte immersis, plerumque vertice parum impresso, pertuso tantum emergentibus, globosis, atris, subnitidis, 0,1 mm. diam.; ascis late clavatis, sæpe parum ventricosis, deorsum stipitiformibus, attenuatis, vertice late rotundatis, polysporis, 47-52 \approx 12-14; sporidiis inordinatis, ellipticis, interdum subconstrictis, bicellularibus, fuscis, 6-8 \approx 3-3,5.

Hab. in tallo lichenum variarum saxicolarum in Germania.

— *var. ventosicola* (Mudd.) Wint. in Hedw. 1886, p. 15, *Microthelia ventosicola* Mudd. Manual. p. 307. Vix diversa a forma normali: peritheciis semiimmersis; sporidiis 8-9 \approx 5. In *Hæmatomate ventoso* parasitans in Germania. — *var. grandiuscula* Arnold Lichen. Ausfl. V, p. 532 et Wint. in Hedw. 1886, p. 15: peritheciis 2-usque fere 3-plo majoribus quam in forma normali; sporidiis 6-9 \approx 3-4. In speciebus variis *Lecideæ*, *Lecanoræ* etc. in Germania. — *var. microcarpa* Anzi Lichen. Ausfl. XIV, pag. 477: peritheciis, ascis sporidiisque minoribus; sporidiis 20 in quoque asco, 5-6 \approx 2-3. In fructibus *Callopismatis aurantiaci* in Germania. — *var. ecatonspora* Ausfl. Neosymb. p. 16, et Wint. in Hedw. 1886, p. 15: peritheciis numerosis, gregariis; sporidiis 9 \approx 3. Inter apothecia *Rinodinæ* *Bischoffii* in Germania.

15. **Tichothecium leucomelarium** (Mudd.) Berl. et Vogl. *Sphæria leu-* 6605

comelaria Mudd. Man. of Brit. Lich. p. 105. — Peritheciis minutis, semiimmersis, subsphæroideis; ostiolis leniter depressis, minutis, vix prominulis, nucleo pallido; paraphysibus gracilibus, filiformibus; ascis elongato-cylindraceis, medio inflatulis, 4-sporis; sporidiis oblongis vel obtuse fusiformibus, 3-septato-constrictis, primo pallide brunneis dein obscure brunneis, 18 \approx 5.

Hab. parasitice in thallo *Borreræ leucomelæ* et *B. ciliaris* in Britannia.

16. **Tichothecium rimosicolum** (Leight.) Arnold in Flora 1861, p. 678, 6606

Xenosphæria rimosicola Körb. Parerg. Lich. p. 467. — Peritheciis numerosis, sparsis confertisve, plus minusve immersis, fere globosis, vertice applauato, ostiolo impresso pertusoque, 0,2-3 mm.

diam.; ascis ovato-clavatis vel subventricosis, 8-sporis; paraphysibus indistinctis; sporidiis ellipticis vel elliptico-oblongis, plerumque utrinque acutatis, 4-cellularibus, ad septa subconstrictis, dilute fuscidulis, 13-16 \approx 5-6.

Hab. in thallo *Rhizocarpi subconcontrici*, *R. petræi*, *Siegartiæ calcareæ* variarumque lichenum aliarum in Germania.

17. **Tichothecium decolorans** Rehm Ascom. Diagnos. n. 490 et Wint. 6607 in Hedw. 1886, pag. 18, *Phavospora decolorans* Rehm. Exsicc. n. 490. — Peritheciis gregariis, thalli superficie, plus minusve dealbata, insidentibus, punctiformibus, conoideis, atris, glabris; ascis clavatis, 8-sporis, 60 \approx 8; sporidiis ellipticis, obtusis, 2-4-cellularibus, cellulis mediis guttulis magnis præditis, ad septa constrictis, rectis, 12 \approx 4; paraphysibus nullis.

Hab. in thallo *Biatoræ decolorantis* in Germania.

18. **Tichothecium peregrinum** (Flotow) Wint. in Hedw. 1886, p. 18, 6608 *Verrucaria peregrina* Flotow in Botan. Zeitg. 1885, n. 8, *Phavospora peregrina* Arnold in Lichenol. Ausfl. XX, p. 355. — Peritheciis punctiformibus, atris, thallo immersis, vertice tantum prominulis; ascis oblongis, 8-sporis; sporidiis elongato-oblongis, 4-cellularibus, ad septa parum constrictis, sæpe guttulis 4-præditis, fuscis, 15 \approx 5; paraphysibus nullis.

Hab. in thallo *Lecanoræ Bockii* in Germania.

SOROTHELIA Körb. Parerga lichenol. p. 471 et Wint. in Hedwigia 1886, pag. 10 (Etym. a *soros* et *thele* papilla). — Perithecia aggregata, soros rotundatos vel irregulares, maculiformes formantia, superficialia, carbonacea, atra; asci 8-spori, paraphysibus obvallati; sporidia didyma, fusca.

1. **Sorothelia confluens** Körber. Par. Lich. p. 471, Wint. in Hedw. 6609 1886, p. 10. — Peritheciis minutis, sessilibus, globosis hemisphæricis, aterrimis, conspurcatis, mox lata basi in soros irregulares confluentibus indeque deformibus; sporidiis in ascis cylindræo-clavatis, octonis, mediocribus, soleæformibus, biguttulatis, diam. 3-5-plongioribus, fuscis.

Hab. in thallo *Phlyctidis argenæ* in Silesia.

PARODIELLA Speg. — Sacc. Syll. I, p. 717.

- *1. **Parodiella Banksiæ** Sacc. et Bizz. — Peritheciis hypophyllis, dense 6610 gregariis, superficialibus, globulosis, nigris, punctiformibus, 100-110

μ . diam., subastomis, glabris, basi hyphulis, paucis cinctis; ascis tereti-clavulatis, subsessilibus, apice truncatis, octosporis, 50-55 \approx 10; paraphysibus bacillari-clavulatis; sporidiis distichis, fusoido-oblongis, constricto-1-septatis, 14-15 \approx 4-5, olivaceo-fuscis.

Hab. in p. inf. foliorum subviventium *Banksiæ marginatæ* in New-South-Wales Australia. — Mycelium fere nullum, ergo non *Dimerosporium*.

- *2. **Parodiella melioides** (B. et C.) Winter in Hedwigia 1886 p. 107 1021 *Melioides*
 et 207, *Sphæria melioides* B. et C. Fungi from Cuba n. 849, *Rosellinia melioides* Sacc. Syll. I, pag. 276, *Nectria megalospora* *pus. penf.*
 Sacc. et Berl. in Rev. Myc. 1885, p. 157. — Perithecia globosa, *an = Dimer.*
 astoma, minuta, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam., pruina amœne cinuabarina tecta, 6611
 in mycelio rufo-fuligineo, septato, ramoso sita; ascis magni, centro inflati, sursum leniter rotundati, crasse tunicati, in stipitem brevissimum desinentes, aparaphysati, 120-130 \approx 35-45, octospori; sporidia oblongata, apice rotundata, didyma, medio parum constricta, loculo superiore longiore, 40-42 \approx 12-15, diu hyalina vel luteola, granulosa, demum flavo-brunneola.

- *3. **Parodiella cæspitosa** Winter in Hedwigia 1885, p. 256. — Peritheciis epi-rarius hypophyllis, superficialibus, cæspites densissimos, hemisphæricos, 1-2 mm. latos formantibus, subglobosis, vertice depressis vel demum impressis et parum umbilicatis, rugulosis, atris, opacis, 0,4 mm. latis; ascis late clavatis, vertice rotundatis vel parum attenuatis, deorsum longe stipitatis, 8-sporis, 78-96 \approx 23-26; sporidiis conglobatis, oblongo-ellipticis, utrinque rotundatis, sæpe inæquilateralibus, uniseptatis, non vel vix constrictis, dilutissime luteo-fuscidulis, 22-28 \approx 9-9,5.

Hab. ad folia viva *Compositæ* scandentis adhuc indeterminatæ, in Brasilia (E. ULÆ).

- *4. **Parodiella paraguayensis** Speg. Fungi Guar. Pug. I, n. 226. — 6612
 Peritheciis epiphyllis, densissime aggregato-constipatis, crustam atram, granulosam, superficiem foliorum obtegentium efficientibus, globulosis, 200-225 μ . diam., atris, glabris, vix rugulosis, ostiolo minutissime papillulato donatis, crassiuscule membranaceo-coriaceis, contextu minute parenchymatico (cellulis 3-4 μ . diam.) parum distincto, olivaceo-fuligineo, subopaco; ascis cylindraceo-clavatis, apice rotundato-truncatis, crasse tunicatis, postice breviter crasseque stipitatis, 80-85 \approx 14; paraphysibus densissimis, filiformibus obvallatis, 8-sporis; sporidiis recte vel oblique distichis, ellipticis, inæquilateralibus, utrinque obtusiuscule rotundatis, 17-18 \approx 7,5-8,

1-septatis, constrictis, loculis subæqualibus, medio subcoarctatulis, 1-2-guttulatis, obscure fuligineis.

Hab. ad folia viva *Evolvuli* speciei cujusdam in silva subvirginea Caa-guazù Bras.

AMPHISPÆRIA Ces. et De Not. — Sacc. Syll. I, p. 718.

1. **Amphisphæria applanata** (Fr.) Ces. et De Not. Sacc. Syll. I, p. 718, 2714

Winter in *Hedwigia* 1886, p. 102. — Perithecia demum collapsa, concentrice rugulosa; asci e basi ampliata sursum oblongati, breve pedicellati, 8-spori, 85-105 \approx 19-21; sporidia subdisticha, loculo superiori majori, ad medium valde constricta, utrinque rotundata; paraphyses filiformes.

*5. **Amphisphæria decorticata** (Cooke et Hark.) Berl. et Vogl. *Sphæ-* 6613

ria decorticata Cooke et Hark. in *Grevillea* XIII, p. 19. — Primitus seriata, intra fibrillas corticis nidulans, demum subsuperficialis; peritheciis erumpentibus, subserialibus sparsisve, subglobosis, atris, opacis, vix $\frac{1}{2}$ mm. diam.; ascis cylindraceis, octosporis; sporidiis ellipticis, uniseptatis, medio arcte constrictis, cellulas subglobosas efformantibus, læte fuscis, 18 \approx 9.

Hab. in ramis decorticatis *Quercus* in California.

*7. **Amphisphæria heteromera** Briard et Sacc. in *Rev. Myc.* 1885, 6614

n. 12. — Peritheciis subsparsis e basi insculpta superficialibus, globosis, papillatis, carbonaceis, atris nitidulis; ascis cylindraceis, subsessilibus, 104-108 \approx 18-20, octosporis, filiformi-paraphysatis; sporidiis subdistichis, oblongo-fusoideis, rectiusculis, utrinque subattenuatis, infra medium septatis constrictisque, fuligineis, loculo infero minore.

Hab. in trunco decorticato *Carpini* prope Troyes Galliæ (BRIARD).

*51. **Amphisphæria Wellingtoniæ** (Cooke et Hark.) Berl. et Vogl. *Sphæ-* 6615

ria Wellingtoniæ Cooke et Hark. in *Grevillea* XIII, pag. 19. — Gregaria, immersa; peritheciis atris, elongato-compressis, hysteroideis, striatis, opacis, 150-180 \approx 80, poro pertusis; ascis cylindraceis, 8-sporis; sporidiis ellipticis, uniseptatis, fuscis, vix constrictis, loculo utroque uniguttulato, 12-14 \approx 8.

Hab. in ligno dealbato *Sequojæ* in California (HARKNESS).

*24. **Amphisphæria anceps** Sacc. et Briard. *Miscell. Myc.* I, n. 2207, 6616

— Peritheciis ligno striolatim nigrificato subimmersis, globulosis, compressiusculis, minutis, $\frac{1}{4}$ mm. diam., minute papillatis; ascis tereti-clavulatis, stipitatis, apice obtusis, octosporis, 63 \approx 10, p. spo-

rif.; sporidiis oblique monostichis, 1-septatis, lenissime constrictis, 9-11 \approx 5-6, biguttatis, olivaceis.

Hab. in ramis decorticatis, emortuis Populi, prope Troyes Galliæ (BRIARD). — Hinc *Didymosphæria* (Microtheliæ), hinc *Val-saricæ* (Phæospermati) nutat, ideoque anceps *Amphisphæria* species.

- * 35. **Amphisphæria aquatica** (Ell. et Ev.) Berl. et Vogl. *Sphæria* 6617
aquatica Ell. et Ev. in Torr. bot. Club. 1884, p. 42. — Peritheciis sparsis, membranaceis, 250 μ . diam., semiimmersis, subglobosis vel parum elongatis; ostiolo papilliformi; ascis linearibus, 150- \approx 6-8, copiose paraphysatis; sporidiis recte monostichis, oblongis, uniseptatis, septo leniter constrictis, rectis vel leniter curvulis, primum pallidis, crasse binucleatis, demum obscure brunneis, 15-20 \approx 6.

Hab. in fundo situlæ juniperinæ diu aqua irrorato, Newfield Amer. bor.

- * 41. **Amphisphæria dothideospora** Cooke et Harkn. in Grevillea XIV, 6618
p. 9. — Gregaria; peritheciis emergentibus, epidermide nigrefacta tectis, conico-convexis, nitidis, ostiolo papillato; ascis subclavatis, octosporis; sporidiis subellipticis, inæqualiter uniseptatis, constrictis, fuliginis, 20 \approx 12.

Hab. in caule Mimuli in California (HARRNESS).

- * 49. **Amphisphæria Hypoxylon** E. et E. in Journ. of Myc. 1886, p. 41. 6619
— Peritheciis dense gregariis, superficialibus, globosis, $\frac{1}{4}$ mm. diam., rugosis, atris, pruinosis, membranaceo-carbonaceis; ostiolo vix prominulo, ascis clavato-cylindræis, 55-65 \approx 10-12, copiose paraphysatis; sporidiis oblique monostichis, ovato-ellipticis, brunneis, uniseptatis, 8-9 \approx 5.

Hab. parasitice in Hypoxyli effusi stromatibus, Plaquemines Amer. bor. (REV. A. B. LAGLOIS).

RHYNCHOSTOMA Karst. — Sacc. Syll. 1, p. 730.

- * 2. **Rhynchostoma tinctum** (Ell. et Ev.) Berl. et Vogl. *Ceratostoma* 6620
tinctum Ell. et Ev. in Bull. Wash. Lab. Nat. Hist. 1884, p. 5.
— Peritheciis erumpentibus, superficialibus, ovoideo-globosis, $\frac{1}{6}$ mm. diam., rugulosis, ostiolatis; ostioli filiformibus, $\frac{2}{3}$ - $\frac{3}{4}$ mm. longis, sublevibus, subinde sursum parum dilatatis; apice globulo sporidiorum coronato; ascis subcylindræis, circiter 30 \approx 7, subsessilibus, paraphysibus filiformibus obvallatis; sporidiis distichis, oblongo-ellipsoideis, subacutis, uniseptatis, 6-7 \approx 2,5-3.

Hab. in ligno emortuo *Aceris macrophylli*, Klinkitat Am. bor. — Affine *R. minuto*.

NEOPECKIA Sacc. in Peck Torr. bot. Club. 1883, p. 127 (Etym. a *neos* novus et a cl. *Peck*). — Perithecia carbonacea, subfragilia, superficialia, sed subiculo copioso, effuso semiimmersa, globosa, papillata, denique latiuscule pertusa. Asci octospori, elongati, copiose paraphysati. Sporidia didyma fuliginea. — A genere *Amphisphaeria* subiculi copiosi præsentia differt, ab *Enchnosphaeria* et *Eriosphaeria* sporidiis perfecte didymis, fuligineis recedit. — Genus clarissimo mycologo C. H. Peck speciei typicæ illustratori jure meritoque dicatum.

1. **Neopeckia Coulteri** (Peck) Sacc. in Torr. bot. Club. 1883, p. 127, 6621
Sphaeria Coulteri Peck in Hayden's U. S. Geol. Survey, 1872, p. 792, *Enchnosphaeria* (?) *Coulteri* Sacc. Syll. II, p. 207, *Lasiosphaeria acicola* Cooke in Grevillea 1880, pag. 87. *Amphisphaeria* (?) *acicola* Sacc. Syll. vol. I, p. 727. — Peritheciis 0,5 mm. diam., demum papillâ amissâ, perforatis; ascis 130-140 \approx 14-15, p. sp., paraphysibus copiosis, filiformibus; sporidiis utrinque obtusiusculis, 20-28 \approx 9-10, intense fuligineis.

Hab. in foliis Pini in montibus Rocky Amer. bor. — Habitu externo *Enchnosphaerie Pinetorum* paraffinis, sed fructificatio prorsus aliena.

RHYNCHOMELIOLA Speg. Fungi Guar. Pug. I, p. 283 (Etym. *rhynchos* rostrum et *Meliola*, ob perithecia eximie rostrata). — Perithecia atra, parvula, globulosa, sursum in ostiolum cylindraceum, prælongum, obtusum producta, subiculo concolori, tomentosulo, conidiifero, phyllogeno insidentia; asci cylindræo-clavati, aparaphysati, 8-spori; sporidia elliptica, didyma, chlorino-olivacea. — Genus *Dimerosporio* affine, ostioli præsentia recedens, ad *Capnodium* pluribus characteribus vergens; ab utroque vero satis distinctum est, et melius sub *Sphaeriaceis* militare videtur.

1. **Rhynchomeliola pulchella** Speg. Fungi Guar. Pug. I, n. 224. — 6622
Mycelio hypophyllo, cum tomento foliorum intertexto, fusco v. olivascenti-atro, maculas plus minusve elatas, 1-15 mm. diam., indeterminatas, sæpe confluenti-evanescentes, irregulares efficiente, ex hyphis sterilibus, repentibus, dense intricatis, fuligineis, parce septatis, subcrassiusculis, 4-6 μ crass., hinc inde hyphis fertilibus, conidiiferis, erectis ornatis composito; peritheciis in mycelio nidu-

lantibus et absconditis, globulosis, parvulis, 100-110, membranaceis, contextu minute parenchymatico, fuligineo-atro, glabris, levibus, superne in ostiolum praelongum, subcylindraceum, 400-520 \approx 25-30, merenchymaticum, apice truncato-rotundatum, in senectute fimbriato-dehiscens, pallidius productis; ascis cylindraceo-clavatis, apice rotundatis, basi brevissime attenuato-stipitatis, 24-28 \approx 5, subdifluentibus, aparaphysatis, 8-sporis; sporidiis distichis, ellipticis, rectis v. vix inaequilateralibus, utrinque acutato-obtusatis, medio 1-septatis, non constrictis, 6-7 \approx 2, primo hyalinis, dein dilute olivaceis.

Hab. ad folia viva Peijoæ Sellovianæ in silva subvirginea Caà-guazù Bras. — Hyphæ conidiiferæ erectæ, rectæ, longiusculæ, 240-458 \approx 6-6,5, parce septatæ, fuliginæ, apice pallidiores, acrosporæ, monospermæ, simplices; conidia fusoidea v. elliptico- v. clavulato-elongata, recta v. leniter inaequilateralia, antice acutiuscule rotundata, postice attenuata ac truncatula, 24-55 et primo continua, hyalina, dein 5-10-septata, ad septa leniter constricta, eguttulata, levia. Status conidicus tandem *Helminthosporium pulchellum* sistens.

DELITSCHIA Auersw. — Sacc. Syll. I, p. 732.

* 1. *Delitschia furfuracea* Niessl in litt., Rehm fasc. XV, n. 747. — 6623
Peritheciis parenchymaticis, brunneis; ascis amplis, clavatis, 8-sporis, 300 \approx 50; sporidiis distichis, oblongis, obtusis, medio constrictis, bicellularibus, strato mucoso obvolutis, obscure brunneis, 45-50 \approx 21; paraphysibus filiformibus vel ramosis, guttulatis.

Hab. in fimo leporino, Brünn Moraviæ,

* 10. *Delitschia Marchalii* Berl. et Vogl. *Delitschia* sp. (?) March. 6624
Fung. coproph. p. 10. — Peritheciis gregariis, minutissimis, subglobosis; ascis cylindraceis, acutiusculis, deorsum brevissime attenuato-stipitatis, 75-85 \approx 11-13, parum et minute paraphysatis, 8-sporis; sporidiis plerumque oblique monostichis, ellipticis, apicibus obtusis, ad septum vix constrictis, primo hyalinis tandem subfuscis, annulo hyalino, angusto cinctis, in articulos binos hæud secedentibus, 10,5-12 \approx 5,5-6 μ .

Hab. in fimo Cuniculorum inter Limelette et la Baraque in Belgio. — *Delitschie elephantinæ* affinis sed magnitudine ascorum et forma sporidiorum distinguenda.

OTTHIA Nits. — Sacc. Syll. I, p. 735.

4. **Otthia Spireæ** Fuck. — Sacc. Syll. I, p. 735, Winter in Hedwigia 2784
1886, pag. 104. — Asci 175-193 \approx 17-18; sporidia medio parum
constricta, opaca, 28-30 \approx 12; paraphyses filiformes.

*18. **Otthia Monodiana** Sacc. et Roum. in Rev. Myc. 1883, tab. 39, 6625
f. 6. — Peritheciis subcutaneo-erumpentibus, in cæspites minutos
collectis, globosis obtusis, atris, rugulosis, $\frac{1}{2}$ mm. diam.; ascis cy-
lindræis, 160-170 \approx 18, paraphysatis, breve stipitatis, octosporis;
sporidiis oblique monostichis, ellipsoideis, constricto-1-septatis, 23-
25 \approx 12-14, fuligineis.

Hab. in ramis Salicis capreæ. — Affinis *O. Alni*.

*20. **Otthia Pteleæ** Rab. in Fungi Europ. n. 1846. — Peritheciis 6626
gregariis, epidermide tectis, globosis, atris; ascis cylindræis, octo-
sporis; sporidiis exacte mono-vel distichis, oblongis, vel ovoideis,
uniseptatis, fuscis, 16-18 \approx 8-9.

Hab. in ramis emortuis Pteleæ trifoliatæ, Schlossgarten
zu Salem Baden (Jакк).

MELANCONIELLA Sacc. Syll. I, p. 741.

*1. **Melanconiella biansata** (Ell. et Ev.) Berl. et Vogl. *Melanconis* 6627
biansata Ell. et Ev. in Torr. bot. Club. 1883, p. 118. — Peri-
theciis in stromate *M. Meschuttii* simili circinatis, globosis, 0,75
mm. diam., mox collapsis, 6-10; ostiolis brevibus, quadrangulari-
bus vel apice imperfecte pertusis, in discum acute ellipsoideum
vel orbicularem, sordide brunneum, epidermidem perforantem et
ea rupta cinctum, collectis; ascis 190-200 \approx 30, evanidis (octosporis?);
sporidiis oblongo-ellipsoideis, uniseptatis, mox brunneis, sæ-
pius utrinque appendicula brevi, tuberculiformi, obtusa ornatis,
35-45 \approx 15-19, sine appendiculis.

Hab. in ramis Betulæ, Plainfield Amer. bor.

*2. **Melanconiella acrocystis** (Peck) Berl. et Vogl. *Valsa acrocystis* 6628
Peck in 33 Rep. St. Mus. p. 34, tab. 2, fig. 19-22. — Pustulis
minutis, epidermide tectis et eam leniter elevantibus atque in la-
cinias acutas transverse rumpentibus, peritheciis sæpius 4-12 in
quaque pustula circinatis, cortice interiore insidentibus, tomento
griseo-brunneo tectis, ostiolis brevibus, nigris, obtusis, seriatim dis-
positis; ascis oblongis; sporidiis latis, stipitatis vel distichis, oblon-
gis, coloratis, uniseptatis, 40-62 \approx 12-20, utrinque appendicula hya-
lina, subglobosa vel sphæroidea præditis.

Hab. in ramis emortuis Betulæ lentæ, North Greenbusch
Amer. bor.

- *8. **Melanconiella Meschuttii** (Ell. et Ev.) Berl. et Vogl. *Valsa Me-* 6629
schuttii Ell. et Ev. in Bull. Torr. bot. Club. 1883, p. 117. — Peritheciis 10-20, circinatis, in stromate lenticulari, nigro, orbiculari vel ellipsoideo, superficie interiore corticis, insidente immersis; ostioliis brevibus, cylindræis, in discum, sordide brunneum, epidermidem transverse rumpentem collectis, apice distincte 4-rimoso; ascis circiter, 75-10 p. sp.; sporidiis distichis, ellipsoideis, leniter curvis, 14-16 \approx 6-8, uniseptatis, vix constrictis, primum subhyalinis demum brunneis, utrinque appendicula hyalina, corniformi, mox evanida ornatis.

Hab. in ramis emortuis Betulæ, Planfield Americæ borealis (GEORGE F. MESCHUTT).

VALSARIA Ces. et De Not. — Sacc. Syll. I, p. 741.

- *1. **Valsaria atrata** Sacc. et Br. Misc. Myc. II, p. 22, n. 97 tab. XI, 6630
fig. 29. — Stromatibus gregariis, cortice initio tectis et ligno superficie late nigrificato basi adnatis, globoso-conoideis, aterrimis; peritheciis stromate immersis, paucis, globulosis, ostioliis breviter emergentibus, papillatis; ascis cylindræis, breve stipitatis, copiose paraphysatis, octosporis; sporidiis monostichis, ellipsoideo-oblongis, constricto-1-septatis, 17-20 \approx 8-11, initio flavicanti-olivaceis, 2-guttulatis, dein opace fuliginis.

Hab. in caulibus emortuis Brassicæ oleracæ acervatis, Troyes Galliæ (BRIARD).

- *2. **Valsaria nigrospora** (Peck) Berl. et Vogl. *Diatrype nigrospora* 6631
Peck in 33 Rep. Stat. p. 33. — Stromate minuto, subtili, orbiculari, pustulato, nigrescente v. nigro, epidermidem elevante et eam stellatim v. transverse rumpente; peritheciis parcis, sæpe 6-12, ligno insculptis, stromateque sursum tectis; ostioliis vix prominulis, discum subcinereum v. nigrescentem perforantibus; ascis subcylindræis, 8-sporis; sporidiis stipatis vel distichis, oblongo-ellipsoideis, obtusis, sæpe leniter curvulis, uniseptatis, 16-8, loculis crasse 1-guttatis, primum pallidis, demum coloratis.

Hab. in ramis emortuis Betulæ luteæ, Quaker Street Americæ borealis.

- *3. **Valsaria Bignonix** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphæ-* 4194
ria Bignonix Schw. Syn. Amer. bor. n. 1310 et Sacc. Syll. II, p. 383. — Sporidia olivaceo-brunnea, uniseptata, 15 \approx 8.

- *4. **Valsaria Robinix** (Schw.) Cooke in Grevillea XIII, p. 37, *Sphæ-* 4133

ria Robinix Schw. Car. n. 61 et Sacc. Syll. II, p. 369. — Sporidia elliptica, uniseptata, brunnea, 20 μ . longa.

- *5. **Valsaria actidia** Berk. et Rav. in Herb. Berk. — Cooke in Grev. 6632
XIV, p. 14. — Stromatibus innato-emergentibus, peritheciis magnis, paucis, 4-6, ostioliis cuneiformibus, stellatim dispositis; ascis amplis (tetrasporis?); sporidiis ellipticis, uniseptatis, constrictis, fuscis, 40-42 \approx 16-18.

Hab. in ramulis Ostryæ et Carpini in Carolina inf.

- *6. **Valsaria Phoradendri** (Berk. et Curt.) Berl. et Vogl. *Melogramma* 6633
Phoradendri B. et Curt., Curt. Cat. 143. — Cooke in Grev. XIII, p. 103. — Peritheciis gregariis, tectis, demum cortice fissurato erumpentibus, atris, obtusis; ascis subcylindricis; sporidiis subellipticis, uniseptatis, leniter constrictis, fuscis, 28-30 \approx 10-12.

Hab. in cortice Phoradendri flavescentis in Amer. bor.

- *8. **Valsaria grandinea** (Berk.) Berl. et Vogl. *Melogramma* (6634
Valsaria) *grandinea* Berk. nec *Dialrype grandinea* B. et Rav. *Melogramma insidens* Berk. in Grev. IV, 99, nec Schweinitz (ita Cooke in Grevillea XIII, p. 103). — Stromate effuso, subrotundo, fusco-nigro; peritheciis emergentibus, confertis, ovatis, apice depresso subumbilicato; ascis clavatis; sporidiis ellipticis, uniseptatis, nec constrictis, 8 \approx 4, fuscis, diu continuis.

Hab. in cortice Fraxini in America boreali.

- *9. **Valsaria purpurea** Peck in Torr. bot. Club. 1884, p. 28. — Pu- 6635
stulis erumpenti-emergentibus, tomento purpureo tectis; peritheciis 6-20 in quaque pustula, stipatis, subglobosis, nigris; ostioliis tomentum perforantibus, rostratis, cylindræis vel elongato-conoideis, rugosis, sæpe curvis vel flexuosis, nigris; ascis cylindræis, paraphysatis, 75-110 \approx 10; sporidiis uniseriatis, coloratis, oblongo-ellipsoideis, uniseptatis, 15-16 \approx 7,5-8.

Hab. in cortice Fraxini, Canada in Amer. bor. (MACGON).

- *10. **Valsaria stellulata** Romell in Hedwigia 1885, p. 263. — Stro- 6636
mate eutypeo; ostioliis emergentibus, astroideis; ascis clavatis, longissime pedicellatis, 8-sporis, 135-150 (parte sporif. 60-90) \approx 10-12; sporidiis botuliformibus, utrinque rotundatis, medio (rarius infra medium) 1-septatis (rarissime inæqualiter 2-septatis), non constrictis, primo olivaceis, continuis et guttulatis, dein fuscis et vix guttulatis, sed distincte septatis, rectis vel curvulis, 16-25 \approx 4-6.

Hab. in ligno truncorum Fraxini excelsioris pr. Upsala in Suecia (L. ROMELL).

- *21. **Valsaria majuscula** Cooke et Harkn. in Grevillea XIII, p. 17. 6637

— Tecta; pustulis sparsis, vix prominulis, peritheciis 6-10 compositis, demum cuticulam perforantibus, ostioliis brevibus obtusis; ascis amplis; sporidiis majusculis, ellipticis, medio constrictis, utrinque rotundatis, uniseptatis, fuscis, $50 \approx 25$.

Hab. in ramis Salicis in California (HARKNESS).

- *22. **Valsaria Hookeri** (Cooke) Berl. et Vogl. *Melogramma Hookeri* 6638
Cooke in Grevill. XIII, pag. 103. — Acervulis erumpentibus, discoides, atris; peritheciis prominentibus, minimis, confluentibus vel subdiscretis; ascis clavatis; sporidiis lanceolatis, uniseptatis, valde constrictis, fuscis, $35-45 \approx 7$.

Hab. in corticibus South Marocco (HOOKER).

- *30. **Valsaria Sarraziniana** Sacc. et Roum. in Rev. Myc. 1883, tab. 39, fig. 8. — Stromate late effuso sed vix manifesto, corticali; peritheciis hinc inde 3-4 aggregatis, v. subsparis, globosis, nigris, $\frac{3}{4}$ mm. diam., omninò abditi; ostioliis brevibus, punctiformi-perforantibus; ascis cylindræis, longiuscule stipitatis, $160-170 \approx 10$, paraphysibus filiformibus obvallatis, octosporis; sporidiis oblique 1-stichis, oblongis, constricto-1-septatis, loculo superiore paullo crassiore, $20-22 \approx 7-7,5$, olivaceo-fuliginæis.

Hab. in cortice Alni glutinosæ. — *Valsariæ fedanti* videtur affinis.

- *36. **Valsaria collematoides** (B. et Rav.) Berl. et Vogl. *Botryosphæria collematoides* B. et Rav. in Grevillea XIII, p. 102. — Stromate effuso, tenui, atro; peritheciis parvulis, ovalibus, congestis, demum apice appanato, opaco, botryoideo-aggregatis, subconfluentibus; ascis cylindræis, octosporis; sporidiis ellipticis, uniseptatis, vix constrictis, fuscis, $15 \approx 7$.

Hab. in corticibus in America boreali.

- *38. **Valsaria Caproni** (Cooke) Berl. et Vogl. *Pseudovalsa Caproni* 6641
Cooke in Grevillea XIV, p. 48. — Pustulis in ligno immersis; peritheciis subglobosis, atris, circinantibus, sursum in colla breviter convergentia productis; ascis cylindræis, octosporis; sporidiis uniseriatis, ellipticis, medio uniseptatis, nec constrictis, fuscis, $15 \approx 5$.

Hab. in ligno denudato quercino, Shere Britannicæ (D. CAPRON).

Sect. 6. Phæophragmiæ Sacc.

MASSARIA De Not. — Sacc. Syll. I, p. 2.

- *3. **Massaria occulta** Romell in Hedwigia 1885, p. 262. — Peritheciis sparsis vel subaggregatis, cortice totis immersis, nigris, in-

tus atris, minutis (circa $\frac{1}{5}$ mm. diam.), ostiolis vix emersis, nudo oculo puncta alba in peridermio levi (non elevato) offerentibus; ascis cylindræis, breviter stipitatis, paraphysatis, 8-sporis, 130-180 (parte sporif.) \approx 10-12; sporidiis monostichis, oblongis, obtusis, sæpe nonnihil inæquilateralibus, primo 4-guttulatis, guttulis globosis, deinde guttulis transverse ovalibus v. transverse fusiformibus, demum 3-septatis, fuligineo-olivaceis, 20-28 \approx 8-9, vix vel non hyalino obvolutis.

Hab. ad ramos emortuos Ribis Grossulariæ prope Kumla Nericia in Suecia (L. ROMELL).

- * 4. **Massaria cleistotheca** Harkn. New Calif. Fungi p. 24. — Peritheciis minutis, tectis; ascis 8-sporis, piriformibus vel obovatis, crasse tunicatis, sessilibus, 48 \approx 30; paraphysibus agglutinatis; sporidiis hyalinis, æqualiter biconoideis, dein triseptatis, strato mucoso obvolutis, 32-40 \approx 8-10. 6643

Hab. in caulibus emortuis Dendromeci rigidi, Tamalpais in California. — «Si sporidia costanter hyalina, aptius sub *Massarina* inquirenda».

- * 10. **Massaria pulchra** Harkn. New Calif. Fungi p. 24. — Peritheciis sparsis, tectis, nucleo albo fartis, 1-1 $\frac{1}{2}$ mm. diam.; ascis octosporis, late clavatis, 126 \approx 36; sporidiis fusiformi-navicularibus, irregulariter et inæqualiter biconoideis, mucro obvolutis, primum uniseptatis, hyalinis, tandem brunneis, inæqualiter 3-5-pseudo-septatis, 58-60 \approx 20-22. 6644

Hab. in ramulis emortuis Umbellulariæ californicæ, Saualito Californiæ.

- * 11. **Massaria umbrosa** (Niessl) Rehm in litt. *Leptosphaeria umbrosa* Niessl in Herb. Rabenh. Fungi Europ. n. 1934 et Rehm Ascomyc. fasc. XIV, pag. 13, n. 690. — Peritheciis sub epidermide paulo rubescente nidulantibus, minutis, subglobosis, siccitate parum collapsis, atris, coriaceis, ostiolo brevi, papilliformi; ascis oblongis, clavato-oblongis v. subcylindræis, stipite brevi, abrupto, octosporis, 70-100 \approx 11-16; sporidiis distichis, fusiformibus, utrinque obtuse rotundatis, rectis, curvatisve, 4-septatis et parum constrictis, dilute virescentibus, demum subolivaceis, denique sæpe fuscis, 32-34 \approx 7-9, mucro tenui obvolutis. 6645

Hab. in caulibus exiccatis Spireæ Arunci, Gentianæ asclepiadææ, Lysimachicæ vulgaris etc. in Germania.

- * 12. **Massaria micacea** Kunze fungi selecti n. 95. — Exemplaria Kunzeana (in herb. Saccardiano) immatura! 6646

Hab. in ramis emortuis Tiliæ platyphyllæ in Germania.

LEPTOSPHERIA Ces. et Do Not. — Sacc. Syll. II, p. 13.

- * 1. **Leptosphaeria Physalidis** Ellis et Ev. in Torr. bot. Club. 1884, 6647
p. 42. — Peritheciis minutis, globoso-depressis, contextu celluloso, apice poro latiusculo pertusis; ascis 35-40 \approx 7-8, aparaphysatis; sporidiis distichis, fusiformibus, leniter curvulis, luteolis, 3-septatis, 15-19 \approx 3.

Hab. in maculis sordide albis, rotundis, foliorum Physalidis pubescentis, prope Lexington Amer. bor. (KELLERMANN).

- * 5. **Leptosphaeria demissa** Niessl Contr. Fl. Myc. Lus. pag. 13. — 6648
Peritheciis sparsis, tectis, depresso hemisphaericis seu collapsis, minutis, 0,2 mm. diam., atris, glabris, coriaceis, ostiolo brevi conico, fimbriato, ut in *L. modesta*, erumpente; ascis clavatis, in stipitem brevem attenuatis, 8-sporis; sporidiis distichis, fusiformibus, rectis vel curvatis, utrinque obtusiusculis, 4-collularibus vel 3-septatis, loculo secundo parum inflato, dilute lutescentibus, subhyalinis, 15-19 \approx 3-3 $\frac{1}{2}$; paraphysibus ascorum longitudine, tenuibus, ramosis.

Hab. ad caules aridos Vinæ medicæ, Coimbra Lusitaniæ. — Sporidiorum forma et magnitudine a *L. modesta* distincte diversa.

- * 10. **Leptosphaeria bicuspidata** (Cooke et Hark.) Berl. et Vogl. *Sphaeria bicuspidata* Cooke et Hark. in Grevillea XIII, p. 19. — 6649
Sparsa, tecta; peritheciis innatis, subprominulis, globosis, atris, ostiolo brevi; ascis clavatis, octosporis; sporidiis fusiformibus, triseptatis, constrictis, fuscis, utrinque hyalino-cuspidatis, 25 \approx 8, sine cuspidibus.

Hab. in caulibus Baccaridis in California (HARKNESS).

- * 11. **Leptosphaeria Longchampsii** (West.) Sacc. in Rev. Myc. 1885, 6650
Sphaeria Longchampsii West. in March. Crypt. Belg. — Peritheciis primo tectis, dein epidermide secedente liberis, atris, minutis, globosis globosove-conoideis, ostiolo conico, longiusculo, acuto prædatis, rugosiusculis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam.; ascis cylindraceis, sursum rotundatis, deorsum attenuato-stipitatis, paraphysatis, octosporis, 70-80 \approx 10-12; sporidiis distichis, cylindraceis, utrinque rotundatis, 4-septatis, loculo secundo leniter crassiore, luteo-viridulis, 25-30 \approx 4-4,5.

Hab. in caulibus exsiccatis Libanotis vulgaris in Belgio.

- * 12. **Leptosphaeria ophioboloides** Sacc. in Misc. Myc. I, pag. 23. — 6651
Peritheciis gregariis, epidermide velatis, globosis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam.,

atris, ostiolo papillato erumpente; contextu parenchymatico densiusculo; ascis clavatis, breve stipitatis, apice obtusiusculis, 120-130 \approx 14, parce paraphysatis, octosporis; sporidiis subtristichis, bacillaribus, utrinque obtuse rotundatis, 8-10-septatis, loculo secundo vel tertio paullo crassiore, 50-55 \approx 4-4,5 olivaceo-melleis, loculis sæpius minute biguttulatis.

Hab. ad caules Tragopogonis, ut videtur, in silvis prope Neuchatel Helvetiæ (MORTIER), — Sporidia subinde bina apicibus connexa, interdum in loculos secedentia, hinc ophioboloidea.

*20. **Leptosphæria Harknessiana** Ell. et Ev. in Journ. of Myc. 1885. 6652

— Peritheciis sparsis vel gregariis, primum epidermide tectis, demum liberis atque superficialibus, atris, hemisphæricis $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; ostiolo brevi, cylindraceo late pertuso; ascis cylindraceis, 100-114 \approx 10-12, octosporis, paraphysibus filiformibus obvallatis; sporidiis monostichis, ellipsoideis, flavo-brunneis, 3-septato-constrictis, 18-22 \approx 7-9, sursum obtusis, basi rotundatis.

Hab. in caule emortuo Anamirtæ Cocculi, Emery Co. Utah Amer. bor.

*21. **Leptosphæria pratensis** Sacc. et Br. in Rev. Myc. 1885. — Pe- 6653

ritheciis numerosis, innatis globulosis, parum depressis, corticulis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., ostiolo obtuso, epidermidem vix nigrefactam perforante; ascis cylindraceo-clavatis, breviter stipitatis, octosporis, 68-112 \approx 8-12; paraphysibus filiformibus; sporidiis distichis v. subdistichis, fusiformibus, obtusiusculis, primum hyalinis dein luteolis, 3-septatis, septis leniter constrictis, rectis vel curvulis, 28-32 \approx 5-6, granuloso-guttulatis.

Hab. in caulibus exsiccatis Medicaginis sativæ, Troyes Galliæ.

*22. **Leptosphæria subcæspitosa** Cooke et Harkn. in Grevillea XIV, 6654

p. 10. — Erumpens; peritheciis subglobosis, atris, subcæspitosis, 4-8 in cæspitulos congestis vel in lineas elongatas dispositis; ostiolicis cylindricis, elongatis, emergentibus; ascis clavatis, octosporis; sporidiis lanceolatis, medio constrictis, quinqueseptatis, fuscis 35-38 \approx 7.

Hab. in caule Geranii in California (HARKNESS).

25. **Leptosphæria oreophiloides** Sacc. et Penz. Syll. II, pag. 20. *Var.* 2919

Scrophulariæ Karst. in Hedw. 1883, n. 12, p. 2. — Rev. atque Synop. Ascom. fenn. p. 51. — Ascis circ. 75 \approx 9; sporidiis octonis, elongato-fusoideis, rectis vel leviter curvulis, subinde loculo secundo superiore levissime crassiore, 30-40 \approx 4; paraphysibus eguttulatis.

Hab. in caulibus Scrophulariæ nodosæ emortuis ad Mustiala Fenniæ.

- *30. **Leptosphæria eutypoides** Peck in 38 Rep. St. Mus. p. 105. — 6655
Peritheciis numerosis, gregariis, 250-280 μ . diam. hemisphæricis vel depressis, primum epidermide tectis, demum denudatis, nigris, ostiolis papilliformibus; ascis clavatis vel subcylindræcis, 100-110 \approx 12-16; sporidiis ovoideis vel oblongis, rectis vel leniter curvulis, triseptatis, plerumque ad septa constrictis, luteo-brunneis, 20-23 \approx 8-10, paraphysibus filiformibus.

Hab. in caule emortuo Chenopodii albi, Albany Amer. bor. 2928

34. **Leptosphæria Galiorum** Sacc. Syll. II, p. 22. — *Var. Lampsanæ* Sacc. et Br. in Rev. Myc. 1885, Peritheciis sparsis, globosis, epidermide tectis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; ostiolis papillatis, erumpentibus; ascis clavatis, sursum attenuatis, deorsum longe stipitatis, octosporis, 64-68 \approx 14-16 p. sp.; paraphysibus filiformibus, guttulatis; sporidiis sursum distichis basi monostichis, ovoideo-oblongis, obtusis, 3-septatis, septis constrictis, brunneis, 20-24 \approx 8, rectis vel leniter curvuli. — In caulibus Lampsanæ communis, Troyes Galliæ

- *37. **Leptosphæria Sarraziniana** Sacc. et Roum. in Rev. Myc. 1884, 6656
tab. LV, f. 2. — Peritheciis innato-erumpentibus, globoso-papillatis, mox collapsio-umbilicatis; ascis clavato-fusoideis, 85-95 \approx 7-10, octosporis; sporidiis distichis, fusoideis, 3-septatis leniter constrictis, obtusiusculis, guttulatis, olivaceis, 18-21 \approx 5-6.

Hab. in nodis Caryophyllaceæ cujusdam, Senlis Galliæ. — Ab affin. *L. pyrenopezizoide* differt sporidiis rectis, crassioribus, loculo secundo vix inflato etc.

- *40. **Leptosphæria Weberi** Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 11, t. I, f. 7. — 6657
Peritheciis hypophyllis, minutis 100-150 μ . diam., primitus infra epidermidem absconditis, postremo papilla obtuse-conica prominentibus, sparsis, nigris; ascis maturis cylindræcio-clavatis, brevissime stipitatis, parum curvatis, paraphysatis, 60-70 \approx 14-16; sporidiis, ut videtur, tristichis, fusoideis, strictis vel plerumque falcatis, utrinque obtusiusculis vel subacutis, triseptatis, 25-37 \approx 5-7, junioribus dilutius, senioribus saturatius olivaceis, loculo secundo in multis ampliore.

Hab. in Ranunculo nivali *var. sulphureo*, Nowaja Semlja.

- *44. **Leptosphæria Corallorhizæ** Peck 38 Rep. St. Mus. p. 105, tab. 2, 6658
fig. 20-23. — Peritheciis numerosis, minutis, 100-125 μ . d., erumpentibus nigris, minute ostiolatis; ascis cylindræcis, sessilibus, 50-

75 \approx 7-8; sporidiis stipatis vel distichis, subfusiformibus, triseptatis, medio leniter constrictis, brunneolis, 20-26 \approx 4-5.

Hab. in caulibus emortuis Corallorhizæ multifloræ, Caroga Amer. bor.

- * 46. **Leptosphæria diaporthoides** Wint. Contr. Flor. Myc. Lus. VI, 6659
p. 11, n. 844. — Peritheciis omnino immersis, semper tectis, serialiter dispositis, depresso globosis, ostiolo brevi, conico, erumpente, membranaceis, atris, glabris, 360-420 μ . latis; ascis exacte clavatis, longe pedicellatis, apicem versus parum attenuatis, 100-120 \approx 17-18, octosporis; sporidiis oblique 2-3-stichis, elongato-fusiformibus, parum curvatis, semper triseptatis, ad septa constrictis, loculo medio parum turgidior, terminalibus longe attenuatis, pallidissime flavidulis, 36-40 \approx 6-7; paraphysibus filiformibus.

Hab. ad caules siccos Umbelliferarum, Serra de Monte-sinho prope Braganca Lusitaniæ (MOLLER).

- * 50. **Leptosphæria Thomasiana** Sacc. et Roum. in Rev. Myc. 1883, 6660
tab. 40, fig. 10. — Peritheciis dense gregariis, globoso-conicis, obtusiuscule papillatis nigris, solidiusculis, initio epidermide velatis, mox liberatis (melanommoideis), vix $\frac{1}{2}$ mm. diam.; ascis tereti-
sculis, breviter stipitatis, parce paraphysatis, octosporis, 80-90 \approx 8-10; sporidiis oblique monostichis vel distichis, oblongo-fusoideis, 3-septatis, leniter constrictis, rectis vel curvulis, 20-22 \approx 6, fuscidulis.

Hab. in sarmentis Rubi emortuis in Gallia.

- * 54. **Leptosphæria Ribis** Karsten in Rev. Myc. 1885, p. 106. — Pe- 6661
ritheciis sparsis, cortice nidulantibus, epidermide demum rimose fissa tectis, pustulas parvas efficientibus, sphæroideo-depressis, atris, glabris, contextu tenui, minute celluloso, fuligineo, ostiolo obsoleto, circiter 150 μ . latis; ascis cylindræis, 80-90 \approx 8-9, octosporis; sporidiis monostichis, ovoideo-vel fusoideo-oblongatis, rectis, triseptatis, ad septa non vel vix constrictis, flavido-hyalinis, demum obscurioribus, subfuscidule flavescensibus, 15-18 \approx 6; paraphysibus haud bene discretis.

Hab. in ramis exsiccatis Ribis alpini pr. Mustiala Fenniæ. 6662

- * 64. **Leptosphæria Ceanothi** (Cooke et Hark.) Berl. et Vogl. *Sphæria Ceanothi* Cooke et Harkness in Grevillea XIII, pag. 19. — Gregaria, tecta; peritheciis minutis, subglobosis, epidermide velatis, ostiolo brevi, punctiformi; ascis breviter clavatis, octosporis; sporidiis sublanceolatis, triseptatis, hyalino-luteolis, 16-18 \approx 4,5.

Hab. in ramulis Ceanothi in California (HARKNESS).

- *66. **Leptosphæria rubrotincta** E. et E. in Journ. of Myc. I, pag. 150. 6663
 — Peritheciis sparsis, membranaceis, depresso globosis, 200-250 μ . diam., apice perforatis, primo tectis dein leniter prominentibus et epidermidem, pallide rufo-sanguineo-maculatam, vix perforantibus; ascis clavato-cylindraceis, sessilibus, 100-110 \approx 10-13, paraphysibus cinctis; sporidiis biseriatis, cylindraceis, rectis vel leniter curvatis, luteolis, 8-10-septatis, loculo medio leniter inflato, 25-40 \approx 4-5, subobtusis.

Hab. in ramis *Staphyleæ trifoliæ* in America boreali.

- *67. **Leptosphæria Gillotiana** Sacc. et Roum. in Rev. Myc. 1883, p. 236, 6664
 tab. 40, fig. 9. — Peritheciis inæqualiter gregariis, globoso-depressis, $\frac{1}{2}$ mm. diam. et ultra, atris, cortice innatis; ascis fusoides, breve stipitatis, 70-75 \approx 10, octosporis, paraphysatis; sporidiis distichis, oblongis, utrinque rotundatis, 3-septatis, non v. vix constrictis, 18 \approx 7, rufo-fuliginis.

Hab. in ramis corticatis *Salicis* in Gallia. — Affinis *Lept. platycarpæ*, a qua peritheciis minus depressis, sporidiis obtusioribus, minus constrictis, brevioribus differt.

- *68. **Leptosphæria californica** (Cooke et Hark.) Berl. et Vogl. *Sphæria* 6665
Californica Cooke et Harkn. in Grevillea XIII, pag. 20. — Densissime gregaria, tecta; peritheciis hemisphærico-prominulis, obtusis, atris, diu epidermide velatis, demum apice subnudis; ascis clavatis; sporidiis biseriatis, sublanceolatis, utrinque obtusis, 4-septatis, cellula pœnultima subincrassata, pallide fuscis, 25-30 \approx 8.

Hab. in ramis et foliis *Araucariæ imbricatæ*, *Sarothamni*, *Rhododendri*, *Evonymi* in California.

- *69. **Leptosphæria odora** (Cooke et Hark.) Berl. et Vogl. *Sphæria* 6666
odora Cooke et Harkness in Grevillea XIII, p. 19. — Tecta, subsparsa; peritheciis mediis, globosis, atris, in cortice nidulantibus, epidermide convexa tectis, ostiolo punctiformi; ascis clavatis, octosporis; sporidiis lanceolatis, biseriatis, primum uniseptatis, demum triseptatis, hyalino-luteolis, 22-25 \approx 5.

Hab. in ramis *Umbellulariæ* in California (HARKNESS).

- *77. **Leptosphæria Morthieriana** Sacc. Misc. Myc. I, p. 23. — Peri- 6667
 theciis laxè gregariis, parenchymate immersis, globulosis, duriusculis, atris, $\frac{1}{6}$ mm. diam., ostiolo conoideo, acuto, emergente; ascis teretibus, crassis, brevissime abrupte stipitatis, 140-150 \approx 35-37, paraphysatis, apice subrotundatis, octosporis; sporidiis distichis, oblongo-fusoides, rectis, utrinque rotundatis, 40-45 \approx 13-14, 5-septatis, vix constrictis, lutescentibus.

Hab. in foliis Succisæ putrescentibus in palude torfacea les Ponts prope Neuchatel Helvetiæ (MORTIER).

*87. **Leptosphæria cassiæcola** E. et E. in Journ. of Myc. 1886, p. 41. 6668

— Peritheciis gregariis, minutis, $\frac{1}{8}$ - $\frac{1}{6}$ mm. diam., epidermide nigrescente, minute pustulatim inflata, demum ostiolo papilliformi perforata, tectis; ascis 70-75 \approx 8-10; sporidiis distichis, fusiformibus, leniter curvulis, 5-septatis, flavo-brunneis, non constrictis.

Hab. in pedunculis emortuis Cassiæ, Houston Texas Americæ borealis.

102. **Leptosphæria agnita** Sacc. Syll. II, pag. 40, *var.* **Chrysanthemi** 6669

Berl. in Soc. Ven. Trent. 1885, tab. XI, fig. 2. — Peritheciis minutis, 0,3-0,4 mm. diam., sæpe complanatis; ascis crassioribus, 70-90 \approx 12-14; sporidiis tristichis, typice 5-septatis, 45-48 \approx 6.

Hab. in caulibus siccis Chrysanthemi corymbosi, Eichenwald prope Sugenheim Franconiæ (REHM). — *Var. major* Berl. in Soc. Ven. Trent. 1885, tab. XI, fig. 4: a typo differt peritheciis majoribus, $\frac{1}{2}$ mm. diam. et distincte papillatis. In caule emortuo Charophylli communis in Gallia (MORTIER). — *var. Erigerontis* Berl. in Soc. Ven. Trent. 1885, tab. XI, fig. 3: ascis majoribus, 82-90 \approx 15; sporidiis tristichis, valde elongatis, 55-60 \approx 4-5, demum 6-septatis, loculo tertio superiore non vel vix turgidiore, utrinque sensim attenuatis. In caule sicco Erigerontis canadensis in Amer. bor. (ELLIS). — *Var. ambigua* Berl. in Soc. Ven. Trent. 1885, tab. XI, fig. 5: peritheciis epidermide velatis, obtuse breviterque papillatis, atris, nitidis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., globoso-depressis; ascis cylindræo-clavatis, 80-110 \approx 12; sporidiis irregulariter tristichis vel distichis, leniter biconoideis, loculo tertio superiore parum crassiore, utrinque obtusis, 6-septatis, 35-38 \approx 6, flaveolis. In caule Eupatorii cannabini in Germania.

104. **Leptosphæria derasa** (B. et Br.) Thüm. — Sacc. Syll. II, pag. 2998

41. *Var. alpestris* Rehm in Hedwigia 1885, pag. 235. — Peritheciis gregariis, primitus sub epidermide caulium nidulantibus eamque papillula protuberante perforantibus, demum liberis, sessilibus globosis, in papillulam rotundam, brevem protractis, haud perspicue perforatis, atris, parenchymatice, fusco-nigre contextis, circ. 0,3-5 mm. diam., hyphis plus minusve longis, circ. 4 μ . cr., undulatis, septatis, fuscis, crebris obsessis; ascis clavatis, 8-sporis, 90-120 \approx 12; sporidiis 2-3-stichis, rectis vel subcurvatis, fusiformibus, subacutis, plerumque 9-cellularibus, itaque cellula quarta latiore, demum 10, rarissime 11-cellularibus et cellula quinta latissi-

ma, quaque nucleolis 2-parvulis et sporidiis 10-cellularibus utraque apice appendicula filiformi, curvata, brevi instructis, flavidulis, 36-45 \approx 4-5; paraphysibus filiformibus, nucleolatis.

Hab. ad caules siccos Compositæ? ad muros viæ jugi Stelvi prope Franzenshöhe in Tirolia (Dr. REHM).

*105. **Leptosphæria multiseptata** Winter. — Sacc. Syll. II, Add. LVII, 6134

var. alpina Rehm in Hedwigia 1885, p. 235. — Peritheciis gregaris vel sparsis, primitus sub epidermide elevata nidulantibus eamque papillula perforantibus, demum liberis, subglobosis, papillula minuta, haud perspicue perforatis, parenchymatice, fusce contextis, atris, circ. 0,3 mm. diam., rarissime basi hyphis fuscis, parvulis cinctis; ascis clavatis, 8-sporis, circ. 100 \approx 12-14; sporidiis 3-stichis, flavidulis, fusiformibus, subobtusis, rectis, 11-(rarissime 12) cellularibus, cellula quinta semper latiore, minus cellula sexta, quaque plerumque nucleolis nonnullis, parvulis prædita, ad septa subconstrictis, 50 \approx 5; paraphysibus filiformibus.

Hab. ad caules siccos Epilobii Fleischeri juxta glaciem æternam montis Ortler prope Sulden in Tirolia (Dr. REHM).

*117. **Leptosphæria consimilis** E. et E. in Journ. of Myc. 1886, p. 41. 6670

— Peritheciis sparsis, carbonaceo-coriaceis, $\frac{1}{3}$ mm. diam., primo tectis fibrasque ligni vel corticis minute pustulatim elevantibus, ostiolo papilliformi demum erumpentibus; ascis subcylindræis, 80-100 \approx 15-20, copiose paraphysatis, octosporis; sporidiis subdistichis, cylindræo-fusiformibus, 3-septatis, primum subhyalinis, dein luteis, demum obscure brunneis, 7-septatis, non vel vix ad septa constrictis, 28-35 \approx 8-10.

Hab. in ramulis emortuis salicinis prope Huron Dakota Amer. (NELLIE E. CROUCH).

*125. **Leptosphæria Ammophilæ** Rehm. Ascomyc. fasc. XIV, n. 691. 6671

— Peritheciis immersis, dein prominulis, late ellipticis, ostiolo crasso, prominente donatis, nigris, levibus, 260-340 \approx 210-260; ascis oblongis, basi subinde leniter incrassatis, octosporis, 115-123 \approx 35 paraphysibus filiformibus obvallatis; sporidiis inordinate distichis, oblongis, 7-8-ocularibus, loculis quarto vel quinto subinde crassioribus, 38-45 \approx 12-14, luteis.

Hab. in caulibus siccis Psammæ arenariæ in Germania. — «An eadem ac *Metasphæria Sabuletorum*?».

*135. **Leptosphæria Delawayi** Pat. in Rev. Myc. 1886, p. 82. — Pe. 6672

— Peritheciis $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., concavis, nigris, ostiolo non papillato, primum epidermide tectis, demum denudatis; ascis 70-90 \approx 9-12,

8-sporis; sporidiis elongatis, fusiformibus, 3-4-septatis, pallide brunneo-fuliginis, 40-45 \approx 6; paraphysibus filiformibus, ascorum longitudinem æquantibus.

Hab. in caulibus emortuis Primulæ Sikkimensis Sikiang (AB. DELAWAY).

- * 137. **Leptosphæria hyperborea** (Fuck.) Berl. et Vogl. *Pleospora hyperborea* Fuck. 2^a Deutsche Nordpolfahr. II, pag. 92 et Oudemans Contr. Flor. Myc. Now. Seml. p. 153, tab. II, fig. 9. — Peritheciis in foliorum aridorum pagina superiore nidulantibus, sparsis, punctiformibus, semiimmersis et basi globosa a foliorum substantia grisea, elevata cinctis, parte libera obtuse conica, siccis applanatis, aterrimis, perforatis; ascis oblongo-ovatis, utrinque attenuatis, 8-sporis, 60 \approx 24; sporidiis in asci media parte stipatis, oblongis, utrinque obtusis, rectis, 3-septatis, ad septum medium constrictis, 24 \approx 8, flavo-fuscis. 6673

Hab. in pagina superiore foliorum aridorum Andromedæ tetragonæ, Shannon Insei Groelandiæ et Spitsbergen. — « An a *L. Andromedæ* satis distincta? ».

- * 172. **Leptosphæria punctoidea** Karst. in Hedw. 1884, n. 1, p. 2, et 6674
Rev. atque Synop. Ascom. fenn. p. 53. — Peritheciis sparsis, sphæroideo-applanatis, innato-erumpentibus, subcutaneis, contextu parenchymatico, tenuissimo, olivaceo-pallescens, glabris, atris, poro latiusculo pertusis, circ. 1 mm. lat.; ascis cylindræo-clavatis, 45-75 \approx 7-11, pseudoparaphysatis; sporidiis octonis, distichis, elongato-fusoideis, curvulis, 3-septatis, eguttulatis, loculo secundo subinde leviter crassiore, hyalinis, demum dilute flavescentibus, 15-26 \approx 3-5.

Hab. in caulibus emortuis Asparagi officinalis ad Mustiala Fenniæ.

175. **Leptosphæria microscopica** Karst. — Sacc. Syll. II, pag. 59, 3069
var. **Calami** Karst. in Hedw. 1883, n. 12, p. 2, Rev. atque Synop. Ascom. fenn. — Peritheciis laxè gregariis, subcutaneis, sphæroideis, raro oblongatis, subastomis, glabris, atris, 1 mm. lat.; ascis elongato-clavatis, obtusis, 66-80 \approx 12-15; sporidiis octonis, di-vel subtristichis, elongato-fusoideis, rectis vel leviter curvulis, 3-septatis, eguttulatis, loculo subultimo subinde leviter crassiore, dilute flavis, 20-24 \approx 6; paraphysibus obsolete.

Hab. in foliis putrescentibus Acori Calami in insula Run-sala.

- * 189. **Leptosphæria marina** Ellis et Ev. in Journ. of Myc. 1885, p. 43. 6675
— Peritheciis irregulariter sparsis, subellipticis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam.,

sursum conoideis, epidermide integra, nigrescente tectis, apice subtruncatis, ostiolo papilliformi, mox deciduo præditis, demum late perforatis; ascis 112-150 \approx 25-35, basi constrictis. substipitatis; sporidiis bi-tristichis, fusiformibus vel clavato-fusiformibus, luteolis, 1-3-septatis, (sæpe 1-septatis), medio leniter constrictis, 50-60 \approx 10-12, utrinque subobtusis.

Hab. in culmis emortuis Spartinae, Cape May Amer. bor.
(CAROLINA TREAT).

*192. **Leptosphæria Typharum** (Desm.) Karst. — Sacc. Syll. II, pag. 3086

64, var. **phragmitina** Karst. in Hedw. 1884, n. 1, pag. 5. et Rev. atque Synops. Ascom. fenu. pag. 54. — Peritheciis sparsis, innato-erumpentibus, glabris, atris, exiguis; ascis oblongatis, subsessilibus, 75-88 \approx 20-22; sporidiis distichis, oblongatis, utrinque obtusis, subrectis, 3-septatis, ad septa leviter constrictis, dilute luteolis, 24-29 \approx 9-11; paraphysibus parum notabilibus.

Hab. in foliis Phragmitis communis putrescentibus ad Mustiala Fenniae.

*200. **Leptosphæria hysteroioides** Ellis et Ev. in Bull. Wash. Lab. 6676

Nat. Hist. 1884, p. 4. — Peritheciis globosis, $\frac{1}{6}$ mm. diam., epidermide atrata, demum ostiolo obtuse conico perforata, tectis, sæpe confluentibus et *Hysterium* simulantibus; ascis oblongis vel oblongo-cylindraceis, 85-112 \approx 12-15; paraphysibus apice intertextis; sporidiis biseriatis, oblongo-fusoideis, hyalinis, 4-nucleatis, sæpe 3-septatis, brunneis, 20-24 \approx 7-9, ad septa constrictis, utrinque obtusis.

Hab. in foliis emortuis Xerophylli tenacis in Monte Pado Amer. bor.

*205. **Leptosphæria infernalis** Niessl Contr. Fl. Myc. Lus. p. 13. — 6677

Amphigena; peritheciis dense gregariis, in maculis fuscis, sub epidermide dense nidulantibus, globosis, majusculis, 0,3 et ultra mm. diam. atris, glabris, rigidis, subcarbonaceis, ostiolo brevi, cylindrico, vix protuberante; ascis clavatis, stipite valde elongato, 8-sporis, 200-230 μ . longis, parte sp. 90-100 \approx 18-22; sporidiis distichis, oblongis vel parum lanceolatis seu medio valde constrictis, utrinque acutiusculis, rectis vel inæquilateralibus, 3-septatis, loculis mediis biguttulatis, atro-fuscis, demum subopacis, 19-24 \approx 9-12; paraphysibus ascorum longitudinem vel paullum superantibus, crassis, guttulatis et laxè ramosis.

Hab. ad folia emortua Fourcroyae longævæ pr. Coimbra Lusitaniae. — Differt a proxima *L. clivensi* præcipue perithe-

ciis minoribus, ascis elongatis, sporidiis duplo latioribus, sublanceolatis.

- *206. **Leptosphæria translucens** Winter Contr. Fl. Myc. Lus. V, p. 15. 6678

— Peritheciis subsparis, tectis, translucentibus, subglobosis, ostiolo punctiformi epidermidem perforantibus, fere coriaceis, atris, 0,2-0-24 mm. diam.; ascis cylindraceutis, deorsum parum attenuatis, sessilibus, 75-95 \approx 10-11, octosporis; sporidiis distichis, cylindraceutis, utrinque rotundatis, interdum parum curvatis, 6-cellularibus, cellula quarta (ab asci apice numerata), perparum incrassata, melles, demum fuscis, 21-24 \approx 5-6; paraphysibus filiformibus, ascos superantibus.

Hab. ad folia arida Fourcroyæ, Coimbra in Lusitania (MOLLER).

- *210. **Leptosphæria phormicola** Cooke et Harkn. in Grevillea XIV, 6679

p. 10. — Gregaria; peritheciis punctiformibus, erumpentibus, epidermide tectis, dein fissurato-emergentibus, atris, convexulis, papillatis; ascis clavatis, octosporis; sporidiis sublanceolatis, utrinque rotundatis, biserialibus, triseptatis, vix constrictis, pallide fuscis, 22 \approx 6.

Hab. in Phormio in California (HARKNESS).

- *212. **Leptosphæria sticta** E. et E. in Journ. of Myc. I, p. 43. — 6680

Peritheciis sparsis, subovatis, membranaceutis, epidermide nigrefacta, ostiolo punctiformi perforata, tectis, dein prominentibus; ascis 100-125 \approx 15-20; paraphysibus numerosis; sporidiis 1-2-seriatis, fusiformibus, pallide luteis, 5-septatis, ad septa leniter constrictis, utrinque obtusis, 30-40 \approx 7-9.

Hab. in culmis Spartinae, Cape May Amer. bor. (CAROLINA TREAT).

- *213. **Leptosphæria Spartinae** Ell. et Ev. in Journ. of Myc. 1885, 6681

p. 43. — Peritheciis gregariis, $\frac{1}{4}$ mm. diam., epidermide nigrescente, ostiolo papilliformi, late pertuso rupta, elevata, tectis; ascis 115-120 \approx 12-15, paraphysibus filiformibus obvallatis, 8-sporis; sporidiis distichis, late fusoidis, pallide luteis, 5-septatis, 35-45 \approx 8-10.

Hab. in culmis emortuis Spartinae, Cape May Amer. bor. (CAROLINA TREAT).

- *214. **Leptosphæria lineolaris** Niessl in Herb., Lihhart fung. hung. 6682

n. 466. — Peritheciis minutis, circiter 0,15-0,20 mm. diam., seriatis dispositis, sæpe in lineas breves confluentibus, submembranaceutis, depresso globosis vel e latere compressis elongatisque, atro-

fuscis, glabris, ostiolo punctiformi; ascis elongato-oblongis, stipite brevi, 43-58 \approx 10-12, octosporis, paraphysibus longioribus obvallatis; sporidiis 2-3-stichis, fusiformibus, inæquilateralibus v. parum curvatis, obtusiusculis, 5-7 locularibus, vix nodulosis, dilute lutescentibus, 19-24 \approx 3-4.

Hab. in culmis exsiccatis Airæ cæspitosæ prope Petrozsény Hungariæ.

*215. **Leptosphæria typhiseda** Sacc. et Berl. in Rev. Myc. 1886, p. 33. 6683

— Peritheciis sparsis, minutis, primum tectis, dein epidermide perforata emergentibus, globosis globosove-conoideis, ostiolo minuto, papillato instructis, $\frac{1}{8}$ mm. diam., atris; ascis cylindraccis, sursum rotundatis, basi breviter stipitatis, paraphysibus filiformibus, simplicibus obvallatis, 70-80 \approx 14, octosporis; sporidiis oblique vel recte monostichis, cylindraceo-clavulatis, apicè rotundatis, deorsum acutioribus, 24-28 \approx 7, olivaceis, 5-6-septatis, ad septum medium vix constrictis.

Hab. in foliis emortuis putrescentibus Typhæ angustifoliæ, Algeria. — *Lept. helminthosporæ* affinis, a qua præ ceteris, matrice distinguenda.

*216. **Leptosphæria pachycarpa** Sacc. et March. in Rev. Myc. 1885. 6684

— Peritheciis gregariis, erumpenti-superficialibus, globoso-papillatis, $\frac{1}{3}$ mm. diam., duriusculis, atris; ascis tereti-clavulatis, breve stipitatis, paraphysatis, 140 \approx 18, octosporis; sporidiis distichis, fusoides, utrinque acutiusculis, rectis curvulisve, 5-septatis, ad septum medium leniter constrictis, 35-40 \approx 6,5-7,5, fuliginis, loculis extimis subhyalinis.

Hab. in culmis Graminum majorum in Belgio. — Peritheciis crassiusculis sporidiisque utrinque subhyalinis statim diagnoseitur.

*217. **Leptosphæria rhodophæa** Bizz. Fung. Ven. nov. v. crit. p. 2, 6685

t. II, f. 3, *a*, *b*, *c*, *d*. — Peritheciis sparsis vel 2-3-aggregatis, subimmersis, globoso-depressiusculis, ostiolo papillulato, vix exserto, pertusis, 0,5 mm. diam.; ascis cylindraceo-clavatis, 8-sporis, 80-100, parte sporif. 70-75 \approx 10, paraphysatis; sporidiis distichis, fuliginis, fusiformibus, 5-septatis, ad septa intermedia constrictis, loculo medio crassiore et rotundato, 28-30 \approx 7-7,5.

Hab. in culmis emortuis Arundinis Donacis in horto botanico patavino.

*227. **Leptosphæria Hierochloæ** Oudem. Cont. à la Flore myc. de No- 6686

waja Semlja p. 10, t. I, f. 3. — Peritheciis foliicolis, sparsis, pri-

mitus occultatis, postremo erumpentibus, subglobosis, atris, structuræ parenchymatosæ flaccidæ, simpliciter perforatis (i. e. ostiolo nullo vel vix prominente), 180-250 μ . diam.; ascis brevissime pedicellatis, parum curvatis, paraphysatis, 90-95 \approx 30, membrana ubique æquali, 8-sporis; sporidiis tristichis, oblongo-fusoideis, rectis, utrinque obtusatis, mellei coloris, 5-septatis, ad septa levissime constrictis, 30 \approx 9, loculo quarto omnium maximo.

Hab. in foliis *Hierochloæ* alpinæ, Nowaja Semlja.

- *230. **Leptosphæria præclara** Karst. in Hedw. 1884, n. 1, p. 2. — Rev. 6687
 atque Synop. Ascom. fenn. p. 54. — Peritheciis sparsis vel subgregariis, depresso sphæroideis, subcutaneo-erumpentibus, contextu parenchymatico, tenui, dilute olivaceo-fuscescente, glabris, ostiolo vix prominulo pertusis, circ. 150 μ . lat.; ascis elongato-vel oblongato-subclavatis, sessilibus, curvatis, 56-100 \approx 13-26; sporidiis octonis, distichis vel subtristichis, oblongato-fusoideis, curvulis vel inæquilateralibus, 5-, raro 3-septatis, loculo tertio subinde crassiore, ad septa leviter constrictis, læte luteolis, 20-32 \approx 8-9; paraphysibus haud bene discretis.

Hab. in caulibus emortuis *Asparagi* officinalis ad Mustiala Fennicæ.

- *237. **Leptosphæria clavicarpa** E. et E. in Jour. of Myc. I, p. 43. — 6688
 Peritheciis plerumque seriatis, in lineas $\frac{1}{4}$ -1 cm. longas dispositis, epidermide nigrefacta tectis, dein prominentibus et epidermidem, ostiolis vix conspicuis, perforantibus; ascis latis, oblongo-cylindraceutis, 75-100 \approx 22-25, obtusis, basi constrictis, paraphysibus filiformibus; sporidiis stipatis, polystichis, clavato-oblongis, leniter curvatis, apice obtusis vel rotundatis, basi abrupte constrictis, 7-9-septatis, maturis luteo-brunneis, 25-40 \approx 8-10, ad septa leniter constrictis; spermatiis in peritheciis similibus, oblongo-cylindraceutis, leniter curvatis, hyalinis, 3-5 \approx 1 $\frac{1}{4}$.

Hab. in culmis emortuis *Phragmitis* communis, Spirit Lake, Jowa Amer. (PROF. S. C. ARTHUR).

- *247. **Leptosphæria asparagina** Karst. in Hedw. 1884, n. 1, p. 1. — 6689
 Rev. atque Synop. Ascom. fenn. p. 55. — Peritheciis subsparsis vel gregariis, hinc inde in series dispositis, sphæroideis vel sæpius sphæroideo-applanatis, hyphis repentibus, fuliginis obsessis, epidermide velatis, nigris, papilla conoidea, sæpe perithecium dimidium æquante, prominula præditis, circ. 2 mm. lat.; ascis cylindraceuto-clavatis, 95-105 \approx 9-10; sporidiis octonis, distichis, elongato-fusoideis, ut plurimum curvulis, 7-septatis, ad septa leviter

vel vix constrictis, eguttulatis, dilute flavis, 24-30 \approx 4,5-6; paraphysibus filiformibus, bene discretis, ascos superantibus.

Hab. ad caules *Asparagi officinalis* emortuos in Mustiala Fennicæ. — Status spermogonicus *Phoma asparagina*.

- *252. **Leptosphæria lycopodicola** Peck 38 Rep. St. Mus. pag. 105, 6690
tab. 2, fig. 16-19. — Peritheciis minutis, 120-150 μ . diam., sphæroideis vel ellipsoideis, erumpentibus, nigris; ascis subcylindræis, subsessilibus, 65-75 \approx 8-10; sporidiis oblongis vel subfusiformibus, pallide coloratis, 3-5-septatis, 20-25 \approx 4-5; paraphysibus filiformibus.

Hab. in pedunculis emortuis *Lycopodii clavati* in montibus Adirondack Amer. bor.

- *262. **Leptosphæria apocalypta** (Rehm) Winter Die Pilze II, p. 442, 6691
Xenosphæria apocalypta Rehm Ascomyc. n. 346. — Peritheciis sparsis vel subgregariis, superficialibus, majusculis, fere globosis, atris, minute papillatis, guttulas oleosas seriatim dispositas, continentibus; ascis clavatis, tunica apice incrassata, 4-6-sporis, 100-120 \approx 12; sporidiis monostichis, late ellipsoideis, vel oblongis, sæpe curvis vel inæquilateralibus, 4-8 cellularibus, obscure brunneis, 24-31 \approx 9-10,5; paraphysibus? crassis, guttulatis longe filiformibus.

Hab. in superficie thalli *Stereocauli alpini* in Germania.

- *263. **Leptosphæria Sphyradiana** (Lahm) Winter Die Pilze II, p. 442, 6692
Xenosphæria Sphyradiana Lahm in litt. et in Arnold Lichen. Fragm. XVI, p. 29. — Peritheciis punctiformibus, nigris, thallo immersis; ascis cylindræis, elongatis, 8-sporis, paraphysibus distinctis, validis obvallatis; sporidiis 4-cellularibus, sæpe 4-guttulatis, medio leniter constrictis, utrinque obtusis, brunneis, 24-27 \approx 6-9.

Hab. in pagina superiore thalli *Sphyradii* fungiformis in Germania.

HEPTAMERIA Rehm et Thüm. — Sacc. Syll. II, p. 88.

- *1. **Heptameria uncinata** (Niessl) Rehm Ascomyc. fasc. XV, n. 735, 6693
Leptosphæria uncinata Niessl in litt. *Lept. obesa* Rehm Ascomyc. Lojk, pag. 54, n. 70. — Peritheciis parenchymaticis brunneis, ascis clavatis, octosporis, 150 \approx 18; sporidiis fusoides, rectis vel subcurvatis, acutatis, 9-cellularibus, cellula media magna, 9 μ .

longa, fusca nucleo magno, centrali prædita, cæteris cellulis latiore $42 \approx 5$, distichis; cellulis lateralibus fuscidulis; paraphysibus ramosis.

Hab. ad caules siccos Artemisiæ campestris in horto Eszterházyano Kaposvár (Somogy) Loika et prope Brünn in Germania. — Species quoad sporidia egregia!

CLYPEOSPHÆRIA Fuck. — Sacc. Syll. II, p. 90.

- *1. **Clypeosphæria Morreni** (West.) Sacc. in Rev. Myc. 1884. A *Clypeosphæria Notarisii*, cui peraffinis, ascis $98 \approx 8-10$; sporidiis cylindræis, curvulis, utrinque rotundatis, $20-21 \approx 4,5$, 3-septatis, non constrictis, fuliginæis dignoscitur. 6694

Hab. in caulibus Epilobii spicati, Louette-Saint Pierre Galliæ (G. AUBERT).

CHÆTOSPHÆRIA Tul. — Sacc. Syll. II, p. 92.

- *1. **Chætosphæria ornata** Harkn. New Calif. Fungi p. 25. — Peritheciis superficialibus, orbicularibus, nigris, non rugosis, 360μ diam., setis hyphoideis, $\frac{1}{2}$ mm. vel amplius longis, nigris, non acuminatis, quandoque septatis; ascis octosporis, clavatis, in pedicellum longum, guttulis oleosis vel granulis farctum, desinentibus, $100 \approx 8-10$; paraphysibus vix visibilibus; sporidiis fusiformibus, triseptatis, loculo medio olivaceo-brunneo, extimis hyalinis, $16 \approx 6$. 6695

Hab. in corticibus putridis Eucalypti, San Francisco Californiæ.

- *3. **Chætosphæria Saccardiana** Schulz. in Rev. Myc. 1884 et Ill. Fung. Slav. n. 74. — Peritheciis densiuscule gregariis, globoso-depressis, subsuperficialibus, $\frac{1}{4}$ mm. diam., nigris, rugulosis, hyphulis laxè vestitis; ostiolo cylindræo, truncato, perithecio plus quam dimidio breviorè; ascis tereti-clavatis, brevè stipitatis, paraphysatis, octosporis; sporidiis subdistichis oblongo-fusoideis, medio constrictis, 1-dein, 3-septatis 4-guttulatis, sæpius curvulis, utrinque obtusiusculis, dilute fuscis. 6696

Hab. in ligno putrescente Carpini in Slavonia, socia forma conidiophora *Helminthosporoidea*.

- *4. **Chætosphæria pezizæformis** Schulz. in Rev. Myc. 1884 et Ill. Fung. Slav. n. 62. — Peritheciis laxè v. dense gregariis, globosis, superficialibus, $\frac{1}{6}-\frac{1}{4}$ mm. diam., e lutescenti nigris, asperulis, in- 6697

ter hyphas demetiaceas (*Helminthosporii obclavati*) interspersis, apice convexis, tandem collabascendo umbilicato-subpezizæformibus; ascis crasse clavatis, deorsum acuminatis, brevissime stipitatis, indistincte paraphysatis, octosporis; sporidiis subtristichis, fusoides, incurvatis utrinque obtuse attenuatis, 7-septatis, ad septa non constrictis, 44-50 \approx 8-10, fusco-lutescentibus, loculis extimis hyalinis,

Hab. in ramis decorticatis Carpini Betuli, Vinkovce Slavoniæ.

MELANOMMA Nits. et Fuck. — Sacc. Syll. II, p. 98.

1. **Melanomma Pulvis-pyrius** (Pers.) Fuck. — Sacc. Syll. II, p. 99. 3223
— Ex autopsia speciminum a cl. H. Fabre missorum huc ducentum *Melanomma Julii* Fab. — Sacc. Syll. II, p. 105.

* 1. **Melanomma Pulviscula** (Karst.) Berl. et Vogl. *Sphæria Pulviscula* Karst. in Hedwigia 1884, p. 60. — Peritheciis confertis vel crustaceo-congestis, raro sparsis, superficialibus, ovoideis, ostiolo sat brevi, conoideo, sublevibus, atris, latit. circ. 0,2 mm.; ascis clavatis, pedicellatis, 45-60 \approx 6-8; sporidiis octonis, di-vel subtristichis, elongatis, curvulis, 3-septatis, ad septa leviter vel vix constrictis, loculo secundo leviter incrassato, eguttulatis, dilutissime fusciscentibus, diaphanis, 11-15 \approx 3-3,5. 6698

Hab. in ligno indurato pineo ad Mustiala Fennix.

* 2. **Melanomma Briardianum** Sacc. Fungi Gallici Ser. V, n. 2213. — 6699
Peritheciis gregariis sæpeque 2-4 arcte confluentibus, globoso-conicis, vix $\frac{1}{2}$ mm. diam., breve, subinde obsolete papillatis, durissimis, atris, extus subplicatis; ascis tereti-clavatis, copiose paraphysatis; apice rotundatis, 160 \approx 16, octosporis; sporidiis oblique monostichis, fusoides, curvulis, utrinque attenuatis, 36-40 \approx 7-8, 3-septatis, ad septum medium constrictis, loculis mediis sæpe inflatulis, 1-guttatisque, olivaceis, extimis paullo pallidioribus.

Hab. in ramis decorticatis lignoque corrupto Salicis et Ribis, pr. Troyes Gallix (BRIARD). — Species forma perithecorum sporidiorumque facile, ut videtur, distinguenda.

* 4. **Melanomma Mussatianum** Sacc. et Roum. in Rev. Myc. 1883, 7000
tab. 40, fig. 11. — Peritheciis dense gregariis, superficialibus, globoso-conicis, obtuse papillatis, $\frac{1}{2}$ mm. diam., nigris, contextu radiato, duriusculo; ascis anguste cylindricis, breve stipitatis, paraphysatis, 120-140 \approx 7-8, octosporis; sporidiis 1-stichis v. subdistichis, fusiformibus, utrinque acutis, rectis vel curvulis, 25-30 \approx 5,

3-septatis, ad septum medium leniter constrictis, olivaceo-fuliginis.

Hab. in ligno Quercus, Fagi etc. in Gallia.

- *12. **Melanomma effugiens** (Karst.) Berl. et Vogl. *Sphæria effugiens* 7001
 Karst. Rev. atque Synop. Ascom. fenn. p. 48. — Peritheciis laxe gregariis vel subsparis, erumpentibus, subinde demum subsuperficialibus, subsphæroideis, levibus, atris, ostiolo conoideo, obtuso, dein pertuso, subinde confluyente, 2-3 mm. diam.; ascis cylindraceo-clavatis, 105-120 μ . long. (parte sporif.); sporidiis octonis, oblique monostichis, oblongatis, utrinque obtusis, 3-septatis, ad septa leviter constrictis, melleis, 18-22 \approx 7-8,5; paraphysibus haud bene discretis.

Hab. in cortice et ligno ramorum aridorum Ulmi in Mustiala Fennia. — Status pycnidicus et spermogonicus sociis obviis, peritheciis subsimilibus; sporulis ellipsoideis, simplicibus, fuscis, 7-8 \approx 4; spermatis elongatis, hyalinis, rectis, 3-4 \approx 5.

13. **Melanomma subsparsum** Fuck. — Sacc. Syll. II, p. 102, Winter in 3235
 Hedwigia 1884, p. 100. — Asci oblongo-cylindracei, apice rotundati, sessiles, 57-63 \approx 9.

- *13. **Melanomma subdispersum** (Karst.) Berl. et Vogl. *Sphæria sub-* 7002
dispersa Karst. in Hedwigia 1884, p. 57. — Peritheciis sparsis, superficialibus subinde basi subinnatis, ovoideis, astomis v. demum poro pertusis, scabriusculis, atris, latit. circ. 0,3 mm. diam.; sporidiis elongato-vel oblongato-fusoideis, rectis, 3-septatis, ad septum medium leviter constrictis; loculis uniguttulatis; flavidis, 18-25 \approx 5-6,5.

Hab. ad corticem Betulae albæ in Sibiria occidentali prope Samarova (EDW. WAINIO). — Statum ejus conidicum sistit socium obvium *Helminthosporium longipilum*.

- *19. **Melanomma truncatum** Sacc. et Roum. in Rev. Myc. 1883, 7003
 tab. 40, fig. 12. — Peritheciis hinc inde subaggregatis, superficialibus, carbonaceis, nigris $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., subinde duobus coalitis, ostiolo obtuse truncato, inæquali, interdum obliquo; ascis cylindraceis, brevissime stipitatis, paraphysatis, octosporis, 130-140 \approx 10; sporidiis oblique 1-sticbis, oblongo-fusoideis, 3-septatis, ad septa constrictis, 20 \approx 7, loculis extremis subhyalinis, mediis olivaceo-fuliginis.

Hab. in ramis decorticatis Salicis in Gallia. — *Mel. medio* affine.

- *20. **Melanomma erraticum** (Karst.) Berl. et Vogl. *Sphæria erra-* 7004

ticula Karst. Rev. atque Synop. Ascom. fenn. p. 48. — Peritheciis sparsis, superficialibus, obovoideis, vulgo vertice in ostiolum conoideum, brevissimum, pertusum attenuatis, atris, glabris, levibus, circ. 2 mm. diam.; sporidiis monostichis, oblongatis, rectis vel curvulis, 3-septatis, luteolo-subfuscescentibus, 14-19 \approx 4,5-6; paraphysibus non bene discretis.

Hab. in cortice *Aceris platanoidis* in insula Runsala.

*32. **Melanomma crypticum** (Karst.) Berl. et Vogl. *Sphæria cryptica* 7005

Karst. in Hedw. 1884, n. 4, p. 6. — Rev. atque Synop. Ascom. fenn. p. 49. — Peritheciis subsparsis, primitus cortice tectis, deinde ea divulsa nudatis, sphæroideo-subapplanatis, interdum inæqualibus, glabris, subatris, vulgo papillis minusculis, obtusissimis, 3-5 mm. lat.; sporidiis fusoideo-vel ovoideo-oblongatis, 3-5-septatis, ad septa vix vel leviter constrictis, solito rectis, flavis, 13-18 \approx 5-6.

Hab. in ramulis emortuis *Viburni Opuli* pr. Vasa Fennicæ.

*37. **Melanomma taphrinoides** Sacc. et Schulz. in Rev. Myc. 1884, 7006

Schulz. Ill. Fung. Slav. n. 695. — Peritheciis gregariis, ligno immersis v. semiimmersis et superficialibus, globulosis, carbonaceis, 0,3-0,4 mm. diam., ostiolo obtusissimo et obsoleto; ascis cylindricis, paraphysatis, breve stipitatis, octosporis; sporidiis oblique 1-stichis, ovato-oblongis, utrinque rotundatis, 3-septatis, ad septa, præcipue medium, constrictis, 18-22 \approx 8, fuligineis, pallidius 4-guttatis.

Hab. in ramis emortuis *Salicis* prope Vinkovce Slavonicæ. — Affine *Melanommati cinereo*.

41. **Melanomma rhodomelum** (Fr.) Sacc. Syll. II, p. 109, Winter in 3263

Hedwigia 1885, p. 100. — Perithecia superficialia, sparsa, levia, glabra; ascis substipitati, 70-87 \approx 7-8,5; sporidia mono-vel subdisticha, 14-16 \approx 5-5,5; paraphyses conglutinatæ.

*47. **Melanomma seminis** (Cooke et Hark.) Berl. et Vogl. *Sphæria* 7007

seminis Cooke et Harkness in Grevillea XIII, p. 18. — Superficiale, gregarium; peritheciis $\frac{1}{3}$ - $\frac{1}{2}$ mm. d., atris, opacis, subglobosis, quandoque subconfluentibus, ostiolo pertuso; ascis clavatis; sporidiis cylindræis, rectis curvulisve, 5-septatis, fuscis, 50 \approx 6.

Hab. in ramis *Baccharidis* in California (HARKNESS).

*49. **Melanomma populinum** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 7008

Ill. Fung. Slav. n. 155. — Peritheciis gregariis, globoso-hemisphæricis, ligno basi infossis, vertice obtusiusculis, intus albidis, extus nigris, levibus, $\frac{1}{4}$ mm. diam.; ascis tereti-clavulatis, deorsum attenuatis, paraphysatis, octosporis; sporidiis distichis, fusoideis, cur-

vulis, 26-30 \approx 6, 7-9-septatis, ad septa constrictis, initio 8-10-guttulatis, fuliginis.

Hab. in ligno Populi, socio *Coniothecio* pr. Vinkovce Slavoniæ.

- * 50. **Melanomma sulcatum** (Ell.) Berl. et Vogl. *Sphæria sulcata* Ell. 7009
in Torr. bot. Club. 1883, p. 53. — Superficiale, dense gregarium; peritheciis ovatis, 330 μ . diam., atris, non expolitis, ostioliis tuberculiformibus, latis poro amplo, sæpe circulari pertusis; ascis clavato-cylindræis, 130 \approx 22; paraphysibus copiosis; sporidiis distichis, late naviculari-fusiformibus, septatis, primo luteis dein brunneis, 35-45 \approx 11-15.

Hab. in caulibus emortuis *Salviæ* (sage brusch) Utah in America boreali (HARKNESS).

TREMATOSPHERIA Fuck. — Sacc. Syll. II, p. 115.

- * 1. **Trematosphæria congesta** (Cooke) Berl. et Vogl. *Psilosphæria* 7010
congesta Cooke Austr. Fungi p. 57. — Gregaria, conferta, atra; peritheciis subcylindricis, convexis, glabris, poro pertusis; ascis subclavatis; sporidiis fusiformibus, triseptatis, leniter constrictis, fuliginis, 40 \approx 10.

Hab. in corticibus, Twofold Bay in Australia.

- * 10. **Trematosphæria melina** (Berk. et Br.) Sacc. Syll. II, pag. 118, 3294
Winter in Hedwigia 1885, pag. 102. — Perithecia primitus fere tota insculpta, $\frac{3}{4}$ mm. diam.; asci cylindræo-subclavati, deorsum longe attenuati, 175-192 \approx 21-26; sporidia oblique mono-vel subdisticha, oblongo-elliptica, oblonga v. naviculiformia, plerumque utrinque subacutata, sæpe parum inæquilateralia, 3-5-septata, ad septa non constricta, fusca 28-44 \approx 9-13; paraphyses filiformes.

- * 16. **Trematosphæria buellioides** Rehm Beiträge Angsburg. Pilzfl. 7011
pag. 78. — Peritheciis magnitudinis *Buellie punctatæ*, atris, opacis, in ligni superficie vel inter fibrillas sessilibus, globosis primitus, dein concavis, *Buellie punctatæ* instar, in papillam brevem perforatam protractis; ascis clavatis, 75 \approx 10, paraphysibus articulatis, superne bifurcatis; cinctis octosporis; sporidiis distichis elongato-ellipticis, utrinque obtusis, 2-4 locularibus, medio valde constrictis, itemque ad septa, flavescentibus 15 \approx 5.

Hab. ad lignum pineum fabrefactum prope Augsburg Germaniæ.

CARYOSPORA De Not. — Sacc. Syll. II, p. 122.

1. **Caryospora Putaminum** (Schw.) De Not. — Sacc. Syll. II, p. 122, 3312
Winter in Hedwigia 1886, p. 102. — Exemplaria perfecte evoluta, americana sporidia 108-140 \approx 50-65 habent.
2. **Caryospora callicarpa** (Curr.) Nits. et Fuck. — Sacc. Syll. II, 3313
p. 123, Winter in Hedwigia 1886, p. 102. — Asci 210-260 \approx 60-70; sporidia 87-108 \approx 30-47.

SPORORMIA De Not. — Sacc. Syll. II, p. 123.

- *20. **Sporormia pentamera** Oud. Aanw. IX-X, pag. 74. — Sporidiis 7012
tristichis, (?) pentameris, 80 \approx 16-17; articulis duobus ultimis obscure conicis, 18-19 μ . longis, tribus intermediis vero 11-12 μ . longis, omnibus fuscis, mucò obductis; ascis absque pedicello, 190 \approx 38, itaque lanceolatis, obtusis.

Hab. in fimo Cuniculorum in Hollandia (VAN LEDDEN HULSENOSCH).

- *23. **Sporormia Brassicæ** Grove in Journ. of Bot. 1886, p. 132, t. 266, 7013
f. 1. — Peritheciis gregariis, magnis, usque ad $\frac{1}{3}$ mm. d., globosis, atris, levibus, nitidis, ostiolo minute papillato, obsoleto, inter fibras nidulantibus, demum pæne superficialibus; ascis subfasciculatis, aparthysatis, clavatis, 50-60 \approx 15-18 μ . (parte sporif.), infra in stipitem filiformem, ascum æquantem v. paullo breviorum, 2-3 μ . crass. attenuatis, apice rotundatis; sporidiis tristichis, infra monostichis, linearibus, tetrameris, olivaceis, dein fuscis, 25-35 \approx 4-5, loculis duobus interioribus oblongis, truncatis, 5-7 μ . longis, interioribus subconicis v. oblongis, 8-10 μ . long., non facile secedentibus.

Hab. in caulibus Brassicæ oleracæ putrescentibus, Streetly pr. Birmingham Brit. — Asci et perithecia iis *S. octomerae* similia, at illi cum sporidiis fere duplo minores.

- *27. **Sporormia immersa** Zukal Ein neu. Pilze, Myc. Bakt. p. 8, t. XV, 7014
fig. 1. — Peritheciis globosis, 500-600 μ . altis, coriaceis, nigris, ostiolo distincte papillæformi prominulis; ascis acuminatis, anguste clavatis, longe pedunculatis, octosporis, 240-260 \approx 18-24, p. sp. curvis vel sinuosis; sporidiis bi-tristichis, subimbricatis, 13-15-locularibus, brunneo-nigris, strato mucoso obvolutis, 70-90 \approx 9-11, fusoides, septis constrictis.

Hab. in fimo Cuniculorum, Wien Austriæ.

PSEUDOVALSA Ces. et De Not. — Sacc. Syll. II, p. 135.

10. **Pseudovalsa tubulosa** (B. et C.) Sacc. Syll. II, pag. 137. — Huc 3358
teste Cooke (Grevillea XIV, p. 48) ducenda est *Calospora tribulosa* (B. et C.) Sacc. Syll. II, p. 232.

MELOGRAMMA Tul. — Sacc. Syll. II, p. 144.

- *5. **Melogramma Meliæ** Curtis in Herb. (nec Schweinitz.) Cooke in Grevillea XIII, p. 103. — Acervulis erumpentibus, atris, subdiscoideis vel oblongis; peritheciis prominentibus, demum subliberatis, rugosis, apice applanato; ascis clavatis, majusculis octosporis; sporidiis sublanceolatis, triseptatis, nec constrictis, rarius quinque-septatis, 38-42 \approx 10, fuscis. 7015

Hab. in ramis Meliæ in Amer. bor.

- *7. **Melogramma platyroum** (Berk. et Curt.) Cooke in Grevillea XIII, p. 103, *Hypoxyton platyroum* Berk. in Herb. — Peritheciis botryoideo-aggregatis, erumpentibus, subeffusis, rarius liberis, pulvere griseo subtus conspersis; ascis clavatis, octosporis; sporidiis fusiformibus, triseptatis, hyalinis 20-22 \approx 4. 7016

Hab. in ligno denudato in Pennsylvania Americæ borealis.

Sect. 7. Hyalophragmiæ Sacc.

MASSARINA Sacc. Syll. II, p. 153.

1. **Massarina eburnea** (Tul.) Sacc. Syll. II, p. 153. *Var. Salicis* Karst. in Hedw. 1884, n. 6, pag. 1. — Rev. atque Synop. Ascom. fenn. p. 40. — Peritheciis sparsis vel subgregariis, initio cortice innatis, dein emergentibus vel erumpentibus, sphæroideis, papilla obtusa, poro ovali pertusa, atris, 3 mm. lat. vel paullo ultra; ascis cylindræis, breviter stipitatis, 185 \approx 15; sporidiis monostichis v. subdistichis, fusoideo-oblongatis, eguttulatis, chlorino-hyalinis, circulo gelatinoso, 2 μ . crasso circumdati 30-33 (sine muco) \approx 9. 7017

Hab. in latere inferiore corticis Salicis cineræ ad Mustiala Fennicæ. — A typo recedit peritheciis sparsis, exacte sphæroideis, non annulato-impresis sporidiisque vulgo rectis.

METASPHERIA Sacc. Syll. II, p. 156.

- *3. **Metasphæria rothomagensis** Roum. in Rev. Myc. 1885, p. 23, tab. 4, fig. 6. — Peritheciis sparsis, minutis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam. fuligineo-nigris, epidermide tectis, demum erumpentibus, rotundatis conoideis, ostiolo latiusculo, vix papillato; ascis clavato-cylindræis, breviter stipitatis, paraphysibus filiformibus, tortuosis, coalitis obvallatis, 95-100 \approx 15 octosporis; sporidiis oblongis, utrinque acutis vel obtusis, leviter curvulis, 28 \approx 6, triseptatis, hyalinis. 7018

Hab. in caulibus Lythri Salicariæ, Seine Inf. Gallicæ.

- * 4. **Metasphæria Annæ** Oudem. Contr. à la Flore myc. de Nowaja 7019
 Semlja p. 12, t. I, f. 9. — Peritheciis sparsis, minutis 200 μ . d.,
 depresso globosis, ostiolo vix papillato, laxe parenchymatosis, atris,
 glabris; ascis paucis, ovato-oblongis, inæquilateris, sessilibus, 30
 \approx 50, 8-sporis, membrana (saltem in statu non plene maturo) tu-
 mescente; sporidiis, ut videtur, tristichis, fusoideis, rectis, utrinque
 obtusis, hyalinis, ut plurimum 6-septatis, 60 \approx 14 (absque strato mu-
 cilaginoso, 3-4 μ . crasso, sporidia obducente), loculis 7 quoad capa-
 citatem a se invicem valde diversa, ut patet e numeris sequenti-
 bus, quibus eorum altitudo indicatur, 6 μ ., 7 μ ., 9 $\frac{1}{3}$ μ ., 11 $\frac{2}{3}$ μ ., 11 $\frac{2}{3}$
 μ ., 9 $\frac{1}{3}$ μ ., 7 μ .

Hab. in Ranunculo nivali *var.* sulphureo, Nowaja
 Semlja.

- * 5. **Metasphæria Trollii** Karst. in Hedw. 1884, n. 6, p. 3. — Rev. atque 7020
 Synop. Ascom. fenn. p. 43. — Peritheciis in greges minutos so-
 ciatis, primitus epidermide tectis, deinde denudatis, applanatis, or-
 bicularibus vel ellipsoideis, demum poro pertusis, atris 3-4 mm.
 lat.; sporidiis octonis, distichis, cylindræis, rectis, 4-guttulatis,
 hyalinis, 11-15 \approx 1,5-2.

Hab. ad caules Trollii europæi pr. Olenji Maris glacialis.

- * 6. **Metasphæria xerophila** Sacc. et Malbr. Fung. Gall. ser. V, pag. 7021
 2166. — Peritheciis sparsis, minutis, epidermide initio tectis, de-
 presso-globulosis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam. breviuscule papillatis, nigris;
 ascis tereti-clavulatis, breve stipitatis, filiformi-paraphysatis, 95-
 100 \approx 14, octosporis; sporidiis oblique monostichis v. distichis, ob-
 longis, deorsum acutioribus, lenissime curvis, 27 \approx 5, 3-septatis,
 hyalinis, non v. vix constrictis.

Hab. in caulibus emortuis Silenes Otitis, Rouen Galliæ. —
 Ab affini *M. rupicola* sporidiis clavulatis, non constrictis etc. di-
 stinguenda.

- * 11. **Metasphæria algeriensis** Sacc. et Berl. in Rev. Myc. 1886, p. 35. 7022
 — Peritheciis gregariis vel subsparis, atris, primum tectis, dein
 epidermide secedente emergentibus, conoideis vel globoso-conoideis;
 ascis cylindræis, sursum leniter attenuatis, 70-80 \approx 14 breviter-
 que stipitatis, paraphysibus filiformibus, asco longioribus, curvulis
 obvallatis; sporidiis distichis, cylindræis, torulosis, 5-locularibus,
 18-20 \approx 5, hyalinis.

Hab. in caulibus exsiccatis Cirsii gigantei et Mesem-
 bryanthemi edulis, Algeria.

- * 12. **Metasphæria depressula** Sacc. et Roum. in Rev. Myc. 1883, t. 39, 7023

f. 7. — Peritheciis dense gregariis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., initio epidermide velatis, dein denudatis, globoso-depressis, dein collabescendo umbilicatis, ostiolo brevi papillato; ascis cylindraceutis, breve stipitatis, 80-90 \approx 12, parce paraphysatis, octosporis; sporidiis distichis fusoidis, loculo secundo inflato, 30 \approx 5, utrinque obtusiusculis, subhyalinis.

Hab. in caule Umbelliferarum in Gallia. — Affinis *M. Lathyri*, a qua differt peritheciis majoribus et magis depressis, sporidiorum articulo secundo magis inflato.

- * 20. **Metasphæria Ferulæ** Bacc. et Avett. Contr. Stud. Mic. roman. 7024 p. 5, t. XVI, f. 4. — Peritheciis punctiformibus, sparsis vel interdum in series longitudinales dispositis, 165 μ . latis, primitus epidermide tectis dein superficialibus, sursum crassis, ostiolo minuto perforatis; ascis cæspitosis, breviter stipitatis, basi valde dilatatis, apice (membrana crassa) obtusis, 80 \approx 15, 8-sporis; paraphysibus filiformibus, ramosis, septatis obvallatis; sporidiis subfusiformibus, in asci parte inferiori congestis, tri-vel tetrasetatis, dimidia superiori parte crassiuscula, 18 \approx 5, 5.

Hab. in ramulis emortuis *Ferulæ communis* in Horto Panisperna, Romæ Ital. mer.

- * 31. **Metasphæria plagarum** (Cooke et Harkn.) Berl. et Vogl. *Sphæria plagarum* Cooke et Harkn. in *Grevillea* XIII, p. 19. — Gregaria, tecta, elevata; peritheciis subglobosis, atris, carbonaceis, in plagas consociatis, cuticulâ elevatâ convexâ tectis; ascis clavatis, sessilibus, octosporis; sporidiis lanceolatis, inordinatis, trisetatis, hyalinis, 18-20 \approx 4, utrinque acutis.

Hab. in cortice *Eucalypti* in California (HARKNESS).

- * 41. **Metasphæria subsimilis** Schulz. et Sacc. in *Rev. Myc.* 1884, 7026 Schulz. *Fung. Slav.* n. 566. — Peritheciis laxè gregariis, globulosis, $\frac{1}{4}$ mm. diam., intus albis, peridermio, pustulatim elevato, tectis, ostiolo depresso, obtuso, vix erumpente; ascis clavulatis, brevissime crasseque stipitatis, longè filiformi-paraphysatis octosporis; sporidiis distichis ovato-oblongis, 15-20 \approx 6, utrinque rotundatis, 3-septatis, ad septum medium leniter constrictis, hyalinis.

Hab. in ramis corticatis *Carpini* prope Vinkovce Slavoniæ. — *Met. depressæ* affinis.

42. **Metasphæria corticola** (Fuck.) Sacc. *Syll.* II, p. 166, var. **Perisicæ** Sacc. et Schulz. in *Rev. Myc.* 1884, Schulz. *Ill. fung. slav.* n. 681. — A typo præcipue differt sporidiis distichis, 12-17 \approx 4-6, fusoidis, 3-septatis, haud constrictis, hyalinis, ascis clavulatis.

Hab. in ramis *Persicæ vulgaris* pr. Vinkovce Slavoniæ.

- *42. **Metasphæria helvetica** Sacc. et Berl. Misc. Myc. II, p. 19, n. 84, 7027
tab. X, f. 22. — Peritheciis gregariis, subcutaneis, minutis, $\frac{1}{4}$ - $\frac{1}{3}$
mm. diam., breve papillatis, epidermide supra perithecia sæpe in-
fuscata; ascis cylindricis, breve stipitatis, paraphysatis, octosporis
130-140 \approx 18; sporidiis oblique 1-stichis v. subdistichis, oblongo-
clavulatis, deorsum acutioribus, 3-septatis, leviter constrictis, mi-
nute pluri-guttulatis, hyalinis, 30-32 \approx 10-11.

Hab. in ramulis *Lonicæ Xylostei* pr. Neuchâtel Helve-
tiæ (MORTIER).

- *43. **Metasphæria Myricæ** Peck in 38 Rep. St. Mus. pag. 105, tab. 2, 7028
fig. 24-26. — Peritheciis numerosis, late conoideis, 400-520 μ . la-
tis, epidermide adhærente tectis, nigris intus albis, ostiolis pertu-
sis; ascis clavatis, obtusis, 100-120 \approx 15-20; sporidiis stipatis, ob-
longis vel subfusiformibus, rectis vel curvulis, primum uniseptatis
quadrinucleatisque, septo constrictis, denique triseptatis, 30-40 \approx
10-12, hyalinis; paraphysibus filiformibus, conglutinatis.

Hab. in ramis emortuis *Myricæ Galeæ*, Caroga Amer. bor.

- *44. **Metasphæria conformis** (B. et Br.) Sacc. in Miscel. Myc. I, p. 6, 7029
Sphæria conformis B. et Br. Curr. Spher. Hook. — Peritheciis
majusculis $\frac{3}{4}$ mm. diam., tectis depressulis, papilla acuta erum-
pente; ascis crasse fusoides, subsessilibus, apice obtusis, 60-72 \approx
18-20, octosporis, aparaphysatis (an?); sporidiis distichis v. oblique
1-stichis, tereti-oblongis, utrinque rotundatis, curvulis, 3-septa-
tis, non constrictis, 20-24 \approx 7-8, 4-nucleatis v. pluriguttulatis, hya-
linis.

Hab. in ramis *Alni*, Troyes Galliæ, sociis *Cryptospora suf-
fusa* et *Cryptosporio Neesii*, quæ inter se metagenetice vere con-
nexa sunt, non vero, cum *Metasph. conformi* neque cum *Ditopel-
la*, quibus (mirum!) a Tulasneo junguntur. Eximia species, per-
peram ab auctoribus ut forma *Ditopellæ fusisporæ* habita. Cha-
racteres *Metasphæriæ*, sed natura potius *Calosporæ*, tamen vere
simplex. Sacc. l. c.

- *45. **Metasphæria cavernosa** (E. et E.) *Sphæria cavernosa* E. et E. 7030
in Journ. of Myc. I, p. 21. — Peritheciis coriaceo-carbonaceis,
atris (?), $1\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., interdum 2-3 unitis vel primo fibris
corticis tectis, parte superiore vix prominulis, ostiolo subtubercu-
liformi obtuso; ascis clavato-cylindraceis, 80-115 \approx 12-15; para-
physibus filiformibus; sporidiis uniseptatis vel sursum partim bi-
seriatis, acuto-ellipticis, plasmate 3-partito, hyalinis, 18-22 \approx 7-9.

Hab. in cortice Taxodii distichi, Darien Ga. (H. W. RAVENEL).

- *48. **Metasphæria slavonica** Schulz. et Sacc. in Rev. Myc. 1884, 7031
Schulz. Ill. Fung. Slav. n. 694. — Peritheciis gregariis, ligno immersis, globosis, 0,2–0,3 mm. diam., intus albidis, ostiolo emergente, obtusiusculo, perforato; ascis cylindricis, paraphysatis, octosporis; sporidiis monostichis, oblongo-fusoideis, inæquilateris, utrinque obtusiusculis, 6-guttulatis, non constrictis, hyalinis.

Hab. in ramis decorticatis, superficie infuscatis Vitis Viniferæ var. silvestris pr. Vinkovce Slavoniæ.

- *51. **Metasphæria Massarina** Sacc. in Misc. Myc. I, p. 22. — 7032
Peritheciis sparsis, subcutaneis, vix erumpentibus, globoso-depressis, obsolete papillulatis, $\frac{3}{4}$ mm. diam., subcoriaceis; ascis cylindraceis, breve stipitatis, apice rotundato-obtusis, 125–130 \approx 10–11, paraphysibus tenuibus, subinde ramulosis obvallatis, octosporis; sporidiis monostichis, oblongis rectis, utrinque obtuse rotundatis, 23–28 \approx 8–10, 5–6-septatis, non constrictis, nisi leniter ad medium, hyalinis.

Hab. ad ramulos corticatos Ribis alpini pr. Neuchatel in Helvetia (MORTIER). — Pulchra species, ad *Massarinam* accedens, sed sporidiorum mucus nullus.

- *52. **Metasphæria Robergia** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 7033
Ill. fung. Slav. n. 858. — Peritheciis subcutaneis, erumpentibus, globulosis, obtuse papillatis, atris, intus pallidis, $\frac{1}{3}$ mm. diam.; ascis teretibus, apice rotundatis, basi brevissime abrupte stipitatis, aparaphysatis (?), octosporis; sporidiis fusoideo-elongatis, subinde curvulis, utrinque obtuse attenuatis, 36–48 \approx 3, dense 18–20-guttatis, hyalinis.

Hab. in cortice Aceris campestris pr. Vinkovce Slavoniæ. — Affinis videtur *Leptosphæria Mulleri*.

- *56. **Metasphæria Lieuryana** Malbr. et Le Bret. Exc. Crypt. (Champ.) 7034
pag. 9. — Peritheciis globoso-convexis, epidermide pustulatim inflata, nigrificata tectis, sæpe in macula decolorata insidentibus, glabris, ostiolo minuto papillato; ascis cylindraceis, sessilibus (?), 135 \approx 8–9; sporidiis monostichis, oblongo-ovalibus, apicibus rotundatis, 3-septatis, hyalinis, 17 \approx 6; paraphysibus nullis.

Hab. in pagina inferiore foliorum emortuorum Ilicis Aquifolii, Grand-Couronne prope Rouen Galliæ. — *M. lejustegæ* affinis, a qua epidermide dense colorata sporidiis acutioribus nec non matrice differt. — Socia *Venturia ilicifolia*.

*57. **Metasphæria Molleriana** (Niessl) Berl. et Vogl. *Leptosphæria* 7035

Molleriana Niessl Contr. Fl. Myc. Lus. p. 14. — Peritheciis hypophyllis, aggregatis, in foliorum parenchymate nidulantibus, demum vertice erumpentibus, minutis, 0,25 mm. diam., globosis, atris, glabris, subcarbonaceis, ostiolo papilliformi; ascis cylindraceutis, subsessilibus, 8-sporis, 40-50 \approx 6-8; sporidiis distichis, cylindraceutis seu inferne parum attenuatis, rectis, medio septatis sed vix vel haud constrictis, demum 4-cellularibus, hyalinis, 9-11 \approx 2-2½; paraphysibus, paucis, exiguis; sporidiis initio ut in *Sphærella* rite evolutis, perfecte 4-cellularibus.

Hab. in foliis emortuis *Eucalypti Globuli*, Pinhal de Valle de Canas pr. Coimbra Lusitaniæ.

*58. **Metasphæria caraguata** Speg. Fungi Guar. Pug. I, n. 227. — Peri- 7036

theeciis primo tectis, dein erumpenti-superficialibus, basi tantum vix insculptis, conoideo v. globoso-lenticularibus, 150-180 μ . d., atris, glaberrimis, levissimis, coriaceo-membranaceis, contextu fere indistincto, densissime minuteque parenchymatico, ostiolo vix papillulato; ascis clavatis, antice acutiuscule rotundatis, postice breviuscule attenuato-pedicellatis, 65-75 \approx 10-12; paraphysibus filiformibus densissime obvallatis, 8-sporis; sporidiis fusoideis v. fusoideo-subclavulatis, sursum obtusiuscule rotundatis, deorsum attenuato-acutiusculis, 25-28 \approx 5-6, 7-9-septatis, ad septa non constrictis, primo hyalinis, dein perdilute chlorinis.

Hab. ad folia languida *Bromeliæ serræ* (vulgo *Caraguata*), in silvaticis prope Guarapí Bras.

*61. **Metasphæria Arabidis** Johans. Svamp. Island p. 169, tab. XXIX, 7037

fig. 11. — Peritheciis sparsis vel gregariis, depresso-sphæroideis, atris vel cinereo-fuscis, poro rotundo pertusis, 180-200 μ . diam.; ascis cylindraceuto-clavatis, breviter pedicellatis, paraphysatis, octosporis, 54-60 \approx 8-10; sporidiis distichis, cylindraceuto-fusoideis, hyalinis, triseptatis, non constrictis, loculo secundo vix vel levissime inflato, rectis vel curvulis, 22-28 \approx 4-5.

Hab. in foliis emortuis *Arabidis alpinæ* Eskifjördur, Islandiæ orientalis.

*70. **Metasphæria Marchaliana** Sacc. in Rev. Myc. 1884. — Perithe- 7038

ciis lineolatim et parallele dense 1-3-seriatis lineaque atra, epidermide sæpe tectis, hinc fere scirrhoideis, sed vere discretis, globosis, minutis, 120-130 μ . diam., ostiolo papillato breviter emergente; contextu minute parenchymatico, fuligineo, tenui; ascis tetrati-clavulatis, breviter stipitatis, paraphysatis, octosporis, 80-90 \approx

12; sporidiis distichis, fusioideis, rectis v. curvulis, 3-septatis, non constrictis, 12-15 \approx 2-2,5, hyalinis.

Hab. in culmis Phragmitis communis, sociâ *Septoriâ arundinaceâ* et *Ascochylâ donacinâ*. Dispositione et minutie perithecorum et parvitate sporidiorum mox distincta species.

74. **Metasphæria graminum** Sacc. Syll. II, pag. 174, var. **culmicola**: 3474
ostiolo setuloso; sporidiis initio mucro obvolutis, 16-18 \approx 4-5. — In culmis graminum.

86. **Metasphæria Cumana** (Sacc. et Speg.) Sacc. Syll. II, p. 177. *Var. lu-* 3486
zulina Karst. in Hedw. 1884, n. 1, p. 5. — Rev. atque Synop. Ascom. fenn. p. 44. — Peritheciis hypophyllis, sparsis vel subgregariis, innatis, vix erumpentibus, depresse sphæroideis, demum pertusis, atris, vix 2 mm. diam.; ascis cylindræo-oblongatis, subsessilibus apice attenuatis, basi sæpe curvulis, 60-75 \approx 9-12; sporidiis octonis, tritichis, fusioideo-bacillaribus, curvulis, spurie 3-septatis aut 3-(vel pluri-)guttulatis, chlorino-hyalinis, ad septa non constrictis, 20-25 \approx 3-4; paraphysibus parum notabilibus. — In foliis emortuis Luzulæ pilosæ, Mustiala Fennicæ.

*94. **Metasphæria nervisequa** (Wint.) Berl. et Vogl. *Leptosphæria* 7039
nervisequa Winter Contr. Fl. Myc. Lus. V, p. 15. — Peritheciis secus nervos primarios sparsis, immersis, demum parum prominentibus, globosis, ostiolo punctiformi, prominulo instructis, membranaeis, atris, 250-260 μ . d.; ascis e basi ventricosa sursum attenuatis, sessilibus, 8-sporis, 60-70 \approx 23 (in parte inferiori), paraphysibus numerosis, filiformibus obvallatis; sporidiis inordinate distichis, oblongis, inæqualiter didymis, 4-septatis, medio profunde, ad alia septa parum, constrictis, parte superiore 12-14 \approx 6-7, biseptata, inferiore 8-9 \approx 4,5-2,5 uniseptata, hyalinis.

Hab. ad Smilacis Pseudochinæ folia arida, rarissime, Coimbra Lusitanicæ (MOLLER).

*101. **Metasphæria acorella** (Cooke) Berl. et Vogl. *Leptosphæria aco-* 7040
rella Cooke in Grev. XIII, p. 99. — Sparsa, epiphylla; peritheciis minutis, subglobosis, primum tectis, dein erumpentibus, parte superiore prominulis, vix papillatis, nigris; ascis clavatis, octosporis; sporidiis fusiformibus, distichis, 5-septatis, septo medio constrictis primum nucleatis, hyalinis, 30-35 \approx 6.

Hab. in foliis Acori Calami, sociâ *Phoma Acori*, Totteridge et Kew Britannicæ.

*114. ? **Metasphæria leptogiophila** (Minks) Berl. et Vogl. *Leptorha-* 7041
phis leptogiophila Minks in litt. Winter in Flora 1877, pag. 211,

? *Leptosphaeria leptogiophila* Winter Die Pilze II, pag. 443. — Peritheciis gregariis, thallo omnino immersis, in pagina inferiore vix prominulis, sphæroideis, ostiolo late pertuso, membranaceo-coriaceis, pallidis, sursum obscurioribus; ascis cylindræis vel subclavatis; apice parum, basi valde attenuatis, 60-70 \approx 9-10; sporidiis late fusiformibus, utrinque acutis, inæquilateralibus, hyalinis, crasse 4-guttulatis (an demum 4-ocularibus?), 16-17 \approx 3-4; paraphysibus numerosis, filiformibus.

Hab. in thallo *Phyrmatis franconici* in Germania.

CERIOSPORA Niessl — Sacc. Syll. II, p. 184.

- *1. **Ceriospora Ulicis** Pat. in Rev. Myc. 1885, p. 153. — Peritheciis 7042 numerosis, gregariis, superficialibus vel epidermide tectis, atris, globulosis vel conoideis, apice ostiolatis; ascis cylindræis, basi attenuatis, sursum rotundatis, 136 \approx 7-14, paraphysibus filiformibus, ramosis cinctis, octosporis; sporidiis distichis, leniter curvulis, fusiformibus, uniseptatis, ad septa vix constrictis, crasse 4-guttulatis, utrinque ciliatis, 30-36 \approx 5-6 (excluso mucrone) hyalinis.

Hab. in ramis emortuis *Ulicis europæi*, Grand-Quévilly pr. Rouen Galliæ (LETENDRE).

SPHÆRULINA Sacc. Syll. II, p. 186.

- *1. **Sphærulina islandica** Rostrup Islands Svampe p. 8. — Peritheciis 7043 gregariis, epidermide tectis, globoso-compressiusculis; ascis fusoido-clavatis, 70 \approx 8-9; sporidiis cylindræo-fusoidis, 3-septatis, hyalinis, 28-30 μ . long.

Hab. in caulibus *Arabidis alpinæ* in Islandia.

- *2. **Sphærulina sambucina** Peck in 38 Rep. St. Mus. p. 106. — Peritheciis 7044 minutis, numerosis, gregariis, inæqualibus vel irregularibus, rotundis, oblongis vel flexuosis, epidermide tectis, erumpentibus, poro vel rima angusta pertusis, atris; ascis clavatis vel subcylindræis, 75-120 \approx 12, aparaphysatis; sporidiis stipatis vel biserialis, oblongo-clavatis, medio constrictis, 5-7-septatis, 22-30 \approx 7,5-8,5, hyalinis.

Hab. in ramis *Sambuci canadensis*, West Albany in America boreali.

3. **Sphærulina Todeæ** (Cooke) Berl. et Vogl. *Sphærella Todeæ* Cooke 7045 in Grevillea XII, pag. 85. — Sparsa, amphigena; peritheciis minimis, subglobosis, atris, semiemergentibus vix papillatis; ascis clavatis; sporidiis sublanceolatis, triseptatis, hyalinis, 12 \approx 2,5.

Hab. in foliis Todeæ hymenophylloideæ, Karori New Zealand.

- *4. **Sphærulina Potentillæ** Rostrup Islands Svampe p. 11. — Peritheciis punctiformibus, gregariis; ascis sessilibus, saccato-clavatis, 38-40 \approx 24-25, aparaphysatis, 6-8-sporis; sporidiis tristichis obovato-cylindricis, obtusis, distincte 4-septatis, hyalinis, 15-20 \approx 6. 7046

Hab. in caulibus Potentillæ maculatae in Islandia.

- *5. **Sphærulina subglacialis** Rehm in Hedwigia 1885, pag. 243. — Peritheciis dispersis, globosis, demum sessilibus, in epidermide dealbata caulium, primitus immersis, subpapillatis, poro minimo pertusis, fuscis, glabris, 0,2 mm. diam., parenchymatice fusce contextis; ascis ovalibus, crassis, 60 \approx 36, 8-sporis; sporidiis inordinatis, oblongo-ellipticis, rarius clavatis, obtusis, rectis, 4-cellularibus, medio non constrictis, hyalinis, 21-27 \approx 9-11; paraphysibus nullis. 7047

Hab. ad caules putridos Trifolii pallescentis ad glaciem æternam montis Ortler prope Sulden in Tirolia (Doct. REHM).

- *6. **Sphærulina Boudieriana** Sacc. et Malbr. Fung. Gall. ser. V, n. 2167. — Peritheciis sparsis, epiphyllis rarius hypophyllis, globoso-depressis, 100-120 μ . d. initio epidermide velatis, dein subsuperficialibus facileque secedentibus, denique umbilicatis, poro perexiguo; contextu minute celluloso, fuligineo; ascis rosulato-fasciculatis, crasse clavatis, 50-60 \approx 14-16, brevissime stipitatis, octosporis, aparaphysatis; sporidiis 3-stichis, fusoideis, curvulis, utrinque acutiusculis, 25-30 \approx 4, 3-septatis, non constrictis, minute 6-8-guttulatis, hyalinis. 7048

Hab. in foliis emortuis Scabiosæ silvaticæ, Brienne Gallia. — Subinde adsunt asci sterilescentes paraphyses imitantes, Perithecia, hyphulis fuliginis sæpe basi cincta, ibique parasitatur *Trinacrium torulosum*.

- *7. **Sphærulina Caricis** Pat. in Rev. Myc. 1886, pag. 82. — Peritheciis sparsis, sub epidermide nidulantibus, ostiolo tantum prominente, minutis, nigris; ascis subsessilibus, 45 \approx 9-12, pseudo-paraphysatis; sporidiis fusiformibus, hyalinis, 3-septatis ad septa non constrictis, 15 \approx 2-3. 7049

Hab. in foliis siccis Caricis trichostyllo, Japon.

- *9. **Sphærulina cetraricola** (Nyl.) Karst. Rev. Monogr. p. 171. Huc 3517
ducenda (teste Karsten l. c.) *Metasphaeria cetraricola* Sacc. Syll. II, pag. 184.

LASIOSPHÆRIA Ces. et De Not. — Sacc. Syll. II, p. 191.

35. **Lasiosphæria caudata**. (Fuck). Sacc. Syll. II, p. 200, Winter in Hedwigia 1885, pag. 99. — Sporidia bicellularia, parum curvata, cellula superiori suboblunga, cellula inferiori cylindrica, subrectangulariter curvata et acutata, fuscidula. 3572

*35. **Lasiosphæria breviseta** Karst. in Hedw. 1884, pag. 57. — Peritheciis gregariis vel aggregatis, ovoideis, superficialibus, rugulosis, ostiolo obtuso, vulgo obsoleto, pilis rigidis, inarticulatis, fusciscentibus, paucis, undique divergentibus, 150-200 \approx 15 (ad basin) obsessis, 400 μ . diam.; ascis pedicellatis, fusoido-clavatis, 78-105 \approx 8-10; sporidiis octonis, tri-multiguttulatis, chlorino-hyalinis, 32-45 \approx 2,5-3,5. 7050

Hab. ad lignum vetustum Padi? in Mustiala Fennicæ. — *Lasiosphæria caudata* et *Las. strigosa* affinis. An *Las. tephrotricha* Fr.?

*36. **Lasiosphæria Romeana** Sacc. et Berl. Misc. Myc. II, p. 20, n. 86, tab. X, fig. 19. — Peritheciis gregariis, superficialibus, globoso-depressiusculis, $\frac{1}{2}$ - $\frac{2}{3}$ mm. diam., obtuse papillatis, atris, pilis cylindricis, subtortuosis, septatis, 200-220 \approx 6, fuliginosis, subindivisis, laxiuscule vestitis; ascis tereti-clavatis, deorsum longe attenuato-stipitatis, 200 \approx 20 p. sporif., octosporis, non vel obsolete paraphysatis; sporidiis cylindricis, utrinque obtusiusculis, 55 \approx 6, deorsum curvatis, continuis, hyalinis. 7051

Hab. in trunco putri prope Genève Helvetiæ (ROME). — Subaffinis *Las. caudata* differt vero sporidiis non caudatis, longioribus.

37. **Lasiosphæria strigosa** (Alb. et Schw.) Sacc. Syll. II, pag. 201, Winter in Hedwigia 1885, p. 99. — Asci elongati, cylindrico-fusiformes, deorsum longe attenuati, 8-spori, 120-130 \approx 14. 3574

*37. **Lasiosphæria stuppea** Ell. et Ev. in Bull. Wash. Lab. Nat. Hist. 1884, pag. 4. — Peritheciis superficialibus, ovatis, gregariis, subcarbonaceis, circiter 1 mm. altis, setis obscure brunneis vel stuppeo-coloratis, continuis, apice imperfecte denticulatis, 200 \approx 5-6, dense tectis; ostioliis obtusis, latis, 4-sulcatis; ascis 170-200 \approx 18-20, medio latioribus, attenuato-truncatis; paraphysibus granulosis, abundantibus, evanidis; sporidiis stipatis, cylindræis, curvis, obtusis, granulosis, centro crasse uninucleatis, pallide brunneis, 34-38 \approx 9-11. 7052

Hab. in ramis emortuis Tsugæ Pattonianæ in Monte Pado Amer. bor.

ENCHNOSPHERIA Fuck. — Sacc. Syll. II, p. 205.

1. **Enchnosphæria Pinetorum** Fuck. Sacc. Syll. I, n. 205, Winter in 3575
Hedwigia 1885, p. 99. Huc sec. cl. Winter (Confr. Hedwigia l. c.)
spectant *Bertia Querceti* et *Lasiosphæria scabra*. — Sporidia
triseptata, cellula secunda parum incrassata, 33-38 \approx 6-7.

* 7. **Enchnosphæria biformis** (Pers.) Sacc. in Rev. Myc. 1884, Schulz. 3585
Ill. fung. Slav. n. 556. — Sacc. Syll. II, p. 204, sub *Lasiosphæ-*
ria. — Perithecia gregaria, superficialia, globoso-conica, atra, $\frac{1}{3}$ -
 $\frac{1}{2}$ mm. diam., carbonacea, ostiolo longiuscule papillato, setulis bre-
vibus laxiuscule vestita; asci cylindranei, paraphysati, subsessiles,
octospori; sporidia oblique 1-sticha, oblongo-ovoidea, 10 \approx 3-3,3,
guttulata, dein 3-septata, vix constricta, hyalina.

Hab. in ligno Populi pr. Vinkovce Slavoniæ.

ACANTHOSTIGMA De Not. — Sacc. Syll. II, p. 207.

* 1. **Acanthostigma affine** Sacc. et Berl. Miscell. Myc. II, p. 28, n. 123, 7053
tab. VIII, f. 1. — Peritheciis superficialibus, subsparis, globoso-
conoideis, minutis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., subcarbonaceis, atris, setulis
cuspidatis, 100-150 \approx 4, rectis, fuligineis, septulatis parce vestitis;
ascis tereti-fusoideis, stipitatis, parce paraphysatis, 110-120 \approx 12-
14, octosporis; sporidiis distichis, fusoideis, 32-34 \approx 6, 6-guttatis
v. pluri-granulosis, 1-3-septatis, hyalinis.

Hab. in ramis putridis decorticatis, Cervarese Itat. bor. — *Ac*
perpusillo affine, sed satis superque distinctum.

6. **Acanthostigma minutum** (Fuck.) Sacc. Syll. I, p. 209. — Asci 80- 3607
90 \approx 16-17; sporidia 19-21 \approx 5-6.

* 11. **Acanthostigma guaranicum** Speg. Fungi Guar. Pug. I, n. 228. 7054
— Peritheciis minutis, globosis v. globoso-lenticularibus, 150-200
 μ . long., sparsis, epiphyllis, rarius hypophyllis, ostiolo minuto per-
tusus, superne setulis continuis, rectis, 100-150 \approx 4-5, fuligineis,
opacis, obtusiusculis, laxè vestitis, membranaceis, contextu paren-
chymatico, pellucido, fuligineo donatis, hypothallo tenuissime mem-
branaceo-subcrustaceo, e cellulis fibroso-radiantibus, ellipticis, crasse
2-guttulatis, sæpe angulosis, 4-10 \approx 5-5, olivaceis, pellucidis, com-
posito insidentibus; ascis ovatis vel elliptico-saccatis, sursum at-
tenuatis, apice rotundato-truncatis, crasse tunicatis, deorsum ab-
rupte coarctatis, brevissime noduloseque stipitatis, 50 \approx 18-19, apa-
raphysatis, 8-sporis; sporidiis polystichis, fusoideo-clavulatis, 35
 \approx 6-6,5, sæpius curvulis, 5-6-septatis, ad septa leniter constrictis,

loculis 3 superis crassioribus, apice obtuse rotundatis, basi attenuato-acutatis, hyalinis.

Hab. ad folia viva Eugeniæ speciei cujusdam in silva subvirginea Caa-guazû Bras.

HERPOTRICHIA Fuck. — Sacc. Syll. II, p. 211.

2. **Herpotrichia rhenana** Fuck. — Sacc. Syll. I, n. 3617 et Winter in Hedwigia 1885, p. 99. — Asci obclavati, deorsum stipiteformiter attenuatis, 110-150 \approx 17-19; sporidia oblongo-fusoidea, medio contracta, utrinque rotundata, primo bicellularia, hyalina, demum tri-septata, pallide fusca, sæpe curvula, 21-28 \approx 8. 3617

*3. **Herpotrichia callimorpha** (Auersw.) Winter in Hedwigia 1885, p. 99, *Enchnoa callim.* Auersw. in Fungi europ. 1238. *Chaetosphaeria callimorpha* Sacc. Syll. II, p. 95, vix huc reducenda. — Peritheciis plerumque confertis, sarmenta longe lateque obducentibus, globosis, atris, vertice concavo, glabro, ceterum dense fusceque villosa-tomentosis, subiculo late effuso, ex hyphis aliis erectis, aliis repentibus, fuscis formato insidentibus; ascis cylindrico-subclavatis deorsum attenuatis, 8-sporis, 100-110 \approx 12; sporidiis fusiformibus, plerumque curvatis, 3-septatis, cellula secunda parum incrassata, utrinque acutiusculis, appendicula hyalina, brevi, conoidea præditis, 35-38 \approx 6, hyalinis. 3212

Hab. ad sarmenta Rubi in Germania.

*4. **Herpotrichia Molleriana** Wint. Cont. Flor. myc. Lus. Ser. VI, p. 9. — Peritheciis sparsis, hypophyllis, globosis, ostiolo papilliformi, pertuso, demum collapsis umbilicatisque, membranaceis, fusco-atris, pilis brevibus, fuscis, flexuosis ubique obsitis, 250-260 μ . diam.; ascis cylindraceis, deorsum longe attenuatis, substipitatis, 8-sporis, 105 \approx 9-10; sporidiis distichis, elongato-fusiformibus, parum curvatis, 7-septatis, ad septum medium profunde contractis, guttulatis, hyalinis, 30-33 \approx 5; paraphysibus copiosis, filiformibus. 7055

Hab. in foliis vivis Quercus Suberis, Rica-fe' prope Bragança in Lusitania (MOLLER).

*9. **Herpotrichia calospora** Winter in Rev. Myc. 1885. p. 207. — Peritheciis laxè gregariis, superficialibus, subiculo tenuissimo, crustaceo, atro-cinereo, effuso, maculas magnas, sæpe caulem ambientes, et longe lateque obducentes efficiente, ex hyphis ramosissimis, fuscis valde intertextis, repentibus, torulosis, septatis, 4,5 μ . crassis formato, setis sparsis, rigidis, fuscis (an conidiiferis?), obsito insiden- 7056

tibus, hemisphæricis, basi applanata, vertice obtusis, minutissime papillatis, atris, opacis, $\frac{6}{10}$ mm. latis; ascis amplis, late clavatis, breviter stipitatis, apice late rotundatis, 8-sporis, 166-192 \approx 35-44; sporidiis subdistichis vel inordinatis, late fusoides, utrinque acutiuseulis, parum inæquilateralibus, medio subconstrictis, 3-septatis, olivaceis, 52-65 \approx 14-15; paraphysibus copiosis, tenuissime filiformibus conglutinatis.

Hab. ad caules culmosve siccos, Carapegua Paraguay Americæ australis.

CERATOSPHERIA Niessl — Sacc. Syll. II, p. 227.

3. **Ceratosphæria pusilla** (Fuck.) Sacc. Syll. II, p. 227, Winter in Hedwigia 1886, p. 101. — Asci cylindranei, deorsum parum attenuati, sessiles, 115-125 \approx 8-9; sporidia 5-septata, 21-28 \approx 5-5,5. 3683
- *5. **Ceratosphæria rhenana** (Auersw.) Berl. et Vogl. *Gnomonia rhenana* Auersw. *Ceratosomella rhenana* Sacc. Syll. I, p. 409. Sec. cl. Winter (Confr. Hedwigia 1886, p. 101). Sporidia sunt 3-septata, 18-21 \approx 5-5,5; asci cylindranei, in stipitem sublongum, tenuem attenuati, 130 \approx 9 p. sp. 93-105. 1552
8. **Ceratosphæria æruginosa** Rehm — Sacc. Syll. II, pag. 228, *Ceratosphæria immersa* Winter delenda est (Confr. Hedwigia 1885, pag. 101), nam teste auctore eadem est ac *C. æruginosa*. 3688
- *9. **Ceratosphæria mycophila** Winter in Hedwigia 1886, p. 101. — Peritheciis sparsis seu gregariis, superficialibus vel plus minusve immersis, demum liberis, globosis, nigris, glabris, nitidis, firmis, collo conico, acuto, perithecio duplo brevior, demum deciduo præditis, vertice collo destituto, late pertuso, 300-370 μ . diam.; ascis elongato-cylindraneis, vertice subincrassato, late rotundato, deorsum stipitiformiter attenuatis, 8-sporis, 180-210 \approx 9; sporidiis subdistichis, elongato-fusiformibus, curvulis, 9-septatis, hyalinis, 38-44 \approx 3,5-4; paraphysibus numerosis, tenuibus, filiformibus. 7057

Hab. ad Polyporum putridum prope Arnstadt Thuringiæ.

THYRIDARIA Sacc. Syll. II, p. 140.

1. **Thyridaria texensis** (E. et Ev.) Berl. et Vogl. *Diatrype texensis* E. et Ev. in Journ. of Myc. 1886, pag. 39. — Stromate subcarbonaceo, atro, suborbiculari, 2-4 mm. crasso, primum plano vel sursum subconcavo, superficie corticis interioris insidente atque epidermidem perforante; peritheciis coriaceis, contextu crasse 7058

parenchymaticò, globosis vel mutua pressione subangulosis, 6-20 in quoque stromate, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., orificio acutiusculo sed indistincto; ascis clavato-cylindraceis, circiter $75 \approx 12$, copiose paraphysatis; sporidiis subdistichis, primo luteo-brunneis uniseptatisque, dein obscure brunneis, 3-septatis, ovatis vel oblongo-ellipsoideis, $15-20 \approx 6-7$, ad septa vix constrictis, loculis exitimis subhyalinis.

Hab. in cortice arboris (Tiliæ?), Houston, Texas Amer. bor.

ZIGNOËLLA Sacc. Syll. II, p. 214.

* 1. **Zignoëlla Britzelmayri** Sacc. in litt. *Lasiosphæria Britzelmayri* 3540
Sacc. Syll. II, p. 192, *Trematosphæria paradoxa* Winter in Hedwigia 1886, p. 102. — Sporidia elongato-fusiformia, deorsum magis attenuata, 5-10 transverse septata, hyalina, $28-35 \approx 3,5-4$.

* 2. **Zignoella Hanburiana** Penz. et Sacc. F. Mort. p. 6, t. IV, f. 1. — Peritheciis sparsis, subsuperficialibus, majusculis, aterrimis, carbonaceis, $\frac{1}{3}$ mm. diam., hemisphæricis, ostiolo minutissimo, haud prominente; ascis clavato-cylindraceis, breve stipitatis, $140-160 \mu$. long., $30-35 \mu$. crassis, octosporis; paraphysibus numerosis filiformibus ascorum longitudine; sporidiis distichis, elliptico-fusoideis, utrinque attenuatis, triseptatis, ad septa leviter constrictis, 4-guttulatis, hyalinis, $35-38 \mu$. long., $10-12 \mu$. crassis.

Hab. in ligno vetusto Oleæ sativæ, Mortola Ital. bor. (O. PENZIG).

* 3. **Zignoella ramenticola** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 7059
Ill. Fung. Slav. n. 157. — Peritheciis dense gregariis, ligno, superficie denigrato, basi infossis, globoso-depressulis, $\frac{1}{5}$ mm. diam., atris, levibus, ostiolo obtuso, conico, minute pertuso; ascis teretibus clavulatis, subsessilibus, paraphysatis, octosporis; sporidiis distichis fusosideo-oblongis, $20 \approx 6$, triseptatis, ad septa constrictis, 4-guttulatis, hyalinis.

Hab. in ligno putri dejecto Carpini prope Vinkovec Slavoniae.

* 4. **Zignoella minutissima** (Karst.) Sacc. Syll. II, Add. LXII. Var. 6152
clavispora Karst. in Medd. af Societ. pro Faun. et Fl. Fenn. 11, 1884, pag. 140. — Rev. atque Synop. Ascom. Feun. p. 42. — Peritheciis laxè gregariis, erumpenti-superficialibus, lentiformibus, atris, opacis, demum ore latiusculo pertusis, 2 mm. circ. lat.; ascis cylindraceo-clavatis, subsessilibus, flexuosis vel curvatis, $40-66 \approx 9-12$; sporidiis octonis, distichis, claviformibus vel ovoideo-elongatis, vulgo rectis, spurie tenuiter 3-septatis, chlorino-hyalinis vel

hyalinis, 15-18 \approx 5-6; paraphysibus filiformibus, parce ramosis 2-2,5 μ . crass.

Hab. ad lignum putrescens in par. Padasjoki Fennia (EDW. WAINIO). — *Var. juniperina* Karst. l. c.: peritheciis innatis, demum vertice nudatis; ascis 80-100 \approx 12; sporidiis 3-septatis, hyalinis, 14-22 \approx 7-8. In ligno Juniperi communis prope Mustiala Fennia.

- * 5. **Zignoella sociabilis** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 7060
 Ill. fung. Slav. n. 935. — Peritheciis gregariis, superficialibus, atris, carbonaceis, globulosis, superficie inæqualibus v. colliculosis, intus pallidis. circ. $\frac{1}{3}$ mm. diam., ostiolo obtusiusculo; ascis clavatis, deorsum attenuatis, 94 \approx 14-18, aparaphysatis (?), octosporis; sporidiis subdistichis, tereti-fusoideis, curvulis, utrinque obtusiusculis, 32-40 \approx 5-7, 4-6-guttatis, non constrictis, hyalinis.

Hab. in trunco decorticato Carpini Betuli, sociâ *Trichosphaeriâ pilosâ* in Slavonia.

- * 15. **Zignoella Haynaldii** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 7061
 Ill. fung. Slav. n. 937. — Peritheciis late et dense gregariis, in ligno denigrato superficialibus, globulosis, verruculosis, carbonaceis, atris, intus pallidis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., ostiolo minuto obtusiusculo; ascis clavulatis, stipitatis, paraphysatis, octosporis; sporidiis subtristichis, cylindræo-fusoideis, utrinque rotundatis, 3-septato-torulosis, 20-22 \approx 4-5, hyalinis.

Hab. in ligno Carpini Betuli prope Vinkovce Slavonia. — *Zignoellæ rhytidodi* affinis.

- * 16. **Zignoella Jurana** Sacc. et Berl. Misc. Myc. II, pag. 19, n. 83, 7062
 tab. X, f. 23. — Peritheciis superficialibus, subsparis, globoso-depressis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., denique collabascendo umbilicatis, atris, brevi-papillatis; ascis tereti-clavatis, 90-100 \approx 14, breve stipitatis, paraphysatis, octosporis; sporidiis distichis, fusoideis, utrinque acutiusculis, 3-septatis, non v. vix constrictis, 20-22 \approx 6, hyalinis.

Hab. in ligno indurato Lonicerae in m. Jura Neuchâtel in Helvetia. — Affinis *Z. fallaci*, a qua peritheciis eximie collabentibus differt.

- * 23. **Zignoella subcorticalis** Cooke in Grevill. XIV, p. 12. — Sparsa; 7063
 peritheciis semimmersis, pertusis, atris, opacis; ascis cylindricis, octosporis; sporidiis ellipticis, hyalinis, continuis, 12 \approx 4.

Hab. in parte interna corticis emortui arborum in Australia.

24. **Zignoella papillata** (Fuck.) Sacc. Syll. II, p. 219, Winter in Hedwigia 1886, p. 100. — Perithecia gregaria vel sparsa, superficia- 3649

lia e globoso breve conoidea, ostiolo distincto, papilliformi, atra, carbonacea, 260 μ . diam.; asci anguste cylindranei, deorsum longe attenuati, 108 \approx 7-9; sporidia irregulariter mono-vel subdistica, oblongo-fusoidea, primitus continua dein distincte uni-vel indistincte triseptata, 3-4 μ . crassa.

*32. **Zignoella grœnendalensis** Sacc. Bomm. et Rouss. in Misc. Myc. 7064

I, pag. 17. — Peritheciis gregariis, subglobosis, exiguis, $\frac{1}{6}$ mm., breve papillatis, carbonaceis, fragilibus, atris, basi hyphis fuliginis filiformibus, tortuosis, cinctis, ceterum subglabris; ascis cylindraneis, modice stipitatis, paraphysatis, octosporis, 110-120 \approx 7, apice lumine subbifoveolato; sporidiis, monostichis, elliptico-oblongis, subinæquilateralibus, 16-18 \approx 6-7, 1-2-guttatis granulosisque, hyalinis.

Hab. in ligno fagineo putri, Groenendael prope Bruxelles in Belgio. — Fructificatione ad *Ceratostomellam dubiam* admodum accedit, sed rostellum peritheciis deest.

*34. **Zignoella sequanica** Sacc. et Malbr. Fungi Gall. ser. V, n. 2169. 7065

— Peritheciis laxè gregariis, globosis, basi ligno leviter insculptis, superficialibus, nigris, intus evacuatis, rosellis $\frac{1}{2}$ mm. diam., carbonaceo-molliusculis, hinc denique umbilicatis, ostiolo brevissimo obtuso; ascis teretiusculis, breve stipitatis, apice rotundatis, 130-140 \approx 16-18, paraphysibus ramulosis obvallatis, octosporis; sporidiis oblique monostichis, fusoideis, utrinque acutiusculis, 32-36 \approx 7-9, 3-septatis leniterque constrictis, hyalinis, farctis, initio strato mucoso obductis.

Hab. in ramis decorticatis emortuis dejectis Salicum ad ripas Sequanæ prope Rouen Galliæ. — Accedere videtur ad *Z. rhodobapham*, ex eo magis quod matrix leniter rubescat; sed differt quia sporidiis conspicue majoribus, ad septa constrictis, peritheciis dein umbilicatis etc.

*38. **Zignoella Oudemansii** Karst. Rev. atque Synop. Ascom. fenn. 7066

pag. 42. — Peritheciis dispersis, erumpentibus, applanatis, depressis, atris, poro pertusis, 2-4 mm. diam.; ascis cylindraneo-clavatis, 75-95 \approx 9-12; sporidiis subdistichis, fusoideo-oblongatis, 1-3-septatis, hyalinis, 18-22 \approx 4-6; paraphysibus parvis.

Hab. in ligno pineo prope lacum Susijärvi in Lapponia rossica.

*39. **Zignoella paraguayensis** Speg. Fung. Guar. Pug. I, n. 229. — 7067

Peritheciis primo epidermide tectis, dein nudis, basi tantum matrix insculptis, 170-180, lenticulari-conoideis, microthyriaceis, ostio-

lo latiusculo perforatis, atris, glabris, levibus, coriaccellis, contextu subindistincte parenchymatico, densiusculo, fusco vel cœrulescentifusco; ascis cylindraceo-obclavatis, antice rotundato-truncatis, crasse tunicatis, postice subcoarctatis, brevissime noduloseque stipitatis, 50-65 \approx 12-15, paraphysibus parcis filiformibus obvallatis, 8-sporis; sporidiis distichis, obovato-elongatis, 13-15 \approx 5-7, 3-septatis, ad septa plus minusve constrictis, loculis 2-superis crassioribus, rectis vel sæpius inæquilateralibus, hyalinis.

Hab. ad aculeos ramorum *Xanthoxyli* speciei cujusdam in silvaticis Paraguæ Bras.

Sect. 8. Dictyosporæ Sacc.

PLEOSPORA Rab. — Sacc. Syll. II, p. 241.

*1. **Pleospora baccata** Ellis in Torr. Bot. Club. 1883, pag. 53. — 7068

Peritheciis subcuticularibus, hemisphæricis, collapsis, rugosis, 330-500 μ . diam., basi hyphis copiosis, brunneis, repentibus cinctis; ostioliis papilliformibus; ascis oblongo-cylindraceutis, 114 \approx 23; sporidiis distichis, oblongo-ellipsoideis, 3-septatis, septo longitudinali imperfecto divisis.

Hab. in caulibus emortuis *Cirsii* speciei cujusdam, Altahe Amer. bor. (HARKNESS).

*2. **Pleospora aurea** Ell. in Torr. Bot. Club. 1883, pag. 53. — Pe- 7069

ritheciis gregariis, epidermide tectis, 250-300 μ . diam., mox collapsis; contextu crasse parenchymatico, basi mycelio rudi, fimbriato, ex hyphis brunneis, repentibus, septatis, parce ramosis, composito cinctis; ascis amplis, obtusis, sessilibus, circiter 114 \approx 30; sporidiis distichis, ellipsoideis, applanatis, 4-septatis, loculis extimis septo longitudinali divisis, aureis, 27-30 \approx 11-15.

Hab. in caulibus herbaceis, Utah Amer. bor. (HARKNESS).

*3. **Pleospora Cheiranthi** Cocc. et Mor. F. Bol. II, n. 196, f. IV. — 7070

Peritheciis globosis, depressiusculis, sparsis, tectis dein erumpentibus, membranaceis, carbonaceis, circ. $\frac{1}{3}$ mm. diam.; ascis 8-sporis, cylindraceuto-oblongatis, interdum incurvulis, breviter stipitatis, 145-160 \approx 24-30; sporidiis dense muriformibus, luteo-brunneis, sæpius transverse 7-septatis, omni loculo longitudinaliter 3-4-septato, 33-36 \approx 14-16.

Hab. in siliquis *Cheiranthi* *Cheiri* pr. Barbrano Ital. bor.

*4. **Pleospora alpina** Rostrup in Islands Svampe pag. 7. — Perithe- 7071

ciis subgregariis, sphæroideo-conoideis, siccis corrugatis, atris, nitidis; ascis 70-80 μ . long.; sporidiis flavis, oblongis, utrinque acutiusculis, 4-septatis, loculis intermediis uno v. binis longitrorsum 1-septatis, 20-26 \approx 6-7, sæpe inæquilateralibus; paraphysibus filiformibus.

Hab. in caulibus Viscariæ alpinæ, Kalmanstunga Islandiæ.

- *5. **Pleospora compressa** Harkn. New Calif. Fungi pag. 25. — 7072
Peritheciis sparsis cuticula nigrescente tectis, concavis, hyphis brunneis, radiantibus cinctis; ascis 8-sporis, clavatis, breviter pedicellatis, 80-90 \approx 15-18, paraphysibus filiformibus; sporidiis brunneis, inæqualiter ellipsoideis, transverse 3-septatis, loculis intermediis septo longitudinali divisus atque magis quam extimis compressis, strato mucoso obvolutis, 20-27 \approx 10-19.

Hab. in caulibus emortuis Polygoni polymorphi, Blue Canon Californiæ.

- *7. **Pleospora Cassiæ** E. et Ev. in Journ. of Myc. 1886, pag. 41. — 7073
Peritheciis $\frac{1}{4}$ mm. diam., epidermide pustulatim inflata, non nigrescente, ostiolo papilliformi perforata tectis, demum collapsis; ascis subcylindræis, basi abrupte contractis, 75-80 \approx 10-12; sporidiis distichis, luteo-brunneis, oblongo-ellipsoideis, triseptatis, ad medium constrictis, leniter curvulis, loculis uno vel duobus intermediis septo longitudinali divisus.

Hab. in caulibus emortuis Cassiæ, Houston, Texas Amer. bor., socia *Leptosphaeria cassiæcola* (H. W. RAVENEL).

8. **Pleospora Alternariæ** Gib. et Griff. Sul Polimorfismo della *Pleospora herbarum*. Rendiconti R. Istituto Lombardo, 1873. — Huc ducenda est *Pleospora vulgaris* Niessl quæ posterior (1876). 3920
18. **Pleospora herbarum** (Pers.) Rab. — Sacc. Syll. II, p. 247 *P. 3730
moricola Pass. in litt. Berl. Fungi Moric. fasc. II, tab. I, fig. 7-12. — Peritheciis subsuperficialibus, sparsis, globosis vel globoso-conoideis, ostiolo brevi, conico vel crasso, atris, opacis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. latis; ascis cylindræo-rotundatis, amplis paraphysibus fasciculatis, obvallatis, sessilibus, rectis vel arcuatis, octosporis, 130-145 \approx 21 (sec. clar. Passerini 150-200 \approx 25-28); sporidiis biserialibus, raro oblique uniserialibus, ellipticis, 7-septatis, loculo uno, duobus, raro tribus, septis longitudinalibus divisus, ad septum medium paullo constrictis, parte superiore vix crassiore, 35-42 \approx 13-17, flavis.

Hab. in foliis emortuis, putrescentibus Mori albæ, Parma Italiæ boreali.

- *20. **Pleospora arctica** Fuckel in Die Zweite Deutsch Nordpolarf. II, 7074

pag. 52, tab. I, fig. 2. — Peritheciis in caulibus aridis, sub epidermide cinerescente nidulantibus et epidermidem pustulatim infantibus, sparsis, media magnitudine, globosis, atris, ostiolis papilliformibus, perforatis, prominulis; ascis oblongis, plerumque curvatis, tunica crassa, breviter crasseque stipitatis, 8-sporis, $132 \approx 36$; sporidiis imbricato-distichis, oblongo-ovatis, medio constrictis, 6-7-septatis muriformibusque, primo hyalinis, demum aureis, postremo atro-olivaceis, subopacis, 28-14; paraphysibus (seu pseudoparaphysibus) linearibus, septatis, multiguttulatis, hyalinis.

Hab. in caulibus aridis *Epilobii latifolii*, Kaiser-Franz-Joseph-Fjord in Groenlandia. — Status conidiophorus **Cladosporium arcticum** exhibens: cæspitulis minutis, maculæformibus, olivaceis, velutinis; hyphis subsimplicibus, cylindræis, septatis, sub lente fuscis, apice conidiophoris; conidiis oblongo-ovatis, vel subclavatis, 1-2-septatis, quandoque oblique pedicellatis, flavo-fuscis, $24 \approx 8$. In valvis aridis capsularum ejusdem *Epilobii* ibidem.

- *30. **Pleospora Sedi** (Roum et Br.) Berl. et Vogl. *Pyrenophora Sedi* 7075
Roum et Briard. in Rev. Myc. 1885, p. 174. — Peritheciis erumpentibus, globulosis, applanatis, nigris, glabris; ascis clavatis, ellipsoideis, $90 \approx 10-14$; sporidiis oblongis, $20 \approx 8$, sex-septatis, septo longitudinali divisus, melleis, distichis.

Hab. in caulibus exsiccatis *Sedi* albi prope Saintes Galliæ. — «Peritheciis glabris, saltem ex diagnosi, a *Pleosporis* recedere non videtur».

- *31. **Pleospora Briardiana** Sacc. in Rev. Myc. 1885, p. 158. — Peritheciis subsparsis, epidermide secedente subsuperficialibus, globoso-depressis, papillatis, $\frac{1}{3}-\frac{1}{2}$ mm. diam., atris, duriusculis, mox collapseo-scutellatis; ascis clavatis, subsessilibus, $72-96 \approx 14-16$, octosporis; paraphysibus filiformibus, articulatis; sporidiis subdistichis, fusoideis, rectis v. curvulis, 7-septatis constrictisque, lutescentibus $28 \approx 7-8$, loculis mediis longitudinaliter 1-seriato-divisis. 7076

Hab. in caule sicco *Verbasci* pr. Troyes Galliæ (BRIARD). — Affinis *Pl. duræ*, a qua peritheciis collapseo-scutellatis mox dignoscitur.

- *34. **Pleospora amplispora** Ell. et Ev. in Bull. Wash. Lab. Wat. Hist. 7077
1884, p. 4. — Peritheciis sparsis, superficialibus, nigris, subglobosis vel hemisphæricis. $\frac{1}{3}$ mm. diam., siccitate collapsis; ostiolis brevibus, cylindræis vel subconoideis; ascis oblongis, $250 \approx 75$ (paraphysibus?); sporidiis oblongis, utrinque obtusis, medio leni-

ter constrictis, 12-16-septatis, muriformibus, 60-75 \approx 20-24, flavo-brunneis, demum brunneis.

Hab. in caulibus emortuis Lupini in monte Paddo Americæ borealis.

- *35. **Pleospora Verbasci** Rabenh. in Marcucci Un. Itin. n. II, et 7078
Barbey Floræ Sardoæ Compendium p. 204. — Peritheciis.....; ascis permagnis, lineari-clavatis, hyalinis; sporidiis oblongis, 26-28 \approx 13-14, luteis, muriformibus.

Hab. in Verbasco, Gonnos Fanadiga Sardinia.

- *36. **Pleospora gigaspora** Karst. Hedwigia 1884, p. 37. — Peritheciis 7079
in matrice haud mutata, sparsis vel subgregariis, epidermide primitus tectis, dein ea perfossa nudatis, conoideo-sphæroideis vel lenticulari-hemisphæricis, basi applanatis, vertice obtusis vel umbonatis, levibus, glabris, atris, 300-400 μ . diam.; sporidiis octonis, distichis, ovoideo-oblongatis vel ellipsoideis, supra medium constrictis, rectis, superne obtuse subattenuatis, parte dimidia inferiori angustiore apiceque rotundata, transverse 10-13-septatis, murali divisis, septulis longitudinalibus hinc inde interruptis, obsoletioribus, 3-4, saturate melleis, demum dilute fusco-melleis, 60-70 \approx 24-34.

Hab. in caulibus emortuis herbarum majorum in insula Maris glacialis, Kildin.

- *38. **Pleospora Clarkeana** Ell. et Ev. in Torr. Bot. Club. 1884, p. 75. 7080
— Peritheciis minutis 100 μ . diam., membranaceis, sparsis, parenchymate foliorum immersis, sursum leniter prominentibus, epidermide atrata tectis, demum collapsis; ostioliis ægre prominulis; ascis subcylindræis, 125 \approx 25; sporidiis biseriatis, piriformibus vel oblongis, sæpius medio leniter constrictis, circiter 7-septatis, demum muriformibus, brunneis.

Hab. in foliis emortuis Plantaginis maritimæ, Island de Grand Menau Amer. bor. (Miss. C. H. CLARKE). — Affinis *P. Heleocharidis*, sed ascis et sporidiis minoribus.

- *39. **Pleospora Paronychiæ** Cooke in Grevillea XII, p. 38. — Epi- 7081
phylla, sparsa; peritheciis globosis, prominulis, papillatis, semiimmersis, minimis; ascis clavatis; sporidiis fusiformibus, centro constrictis, multiseptatis muriformibusque, atro-fuliginis, demum opacis 30 \approx 10.

Hab. in foliis emortuis Paronychiæ serpyllifoliæ, Luchon Gallia.

- *40. **Pleospora Cerastii** Oudem. Contr. à la Flore myc. de Nowaja Sem- 7082
lja p. 10. — Follicola, hypogena; peritheciis atris, carbonaceis, 70-

100 μ . diam.; ascis paucis (vulgo 7) in eodem perithecio, clavatis, 105 \approx 23, 8-sporis; paraphysibus non observatis; sporidiis distichis, obovato-oblongis, saturate fuscis, fere opacis, 7-septatis, murali-divisis, medio parum constrictis, parte dimidia antica paullum latiore.

Hab. in foliis Cerastii alpini, Nowaja Semlja.

- *41. **Pleospora guaranítica** Speg. Fung. Guar. Pug. I, n. 230. — 7083
Peritheciis globulosis, minutissimis, 70–90 μ . d., primo epidermide tectis, dein erumpenti-subsuperficialibus, sparsis, atris, glabris, levibus, tenui-membranaceis, contextu crasse parenchymatico-celluloso, olivaceo-fusco; ascis cylindræo-clavatis, 60–80 \approx 25–30, 2–3 in quoque perithecio, tenui-tunicatis, antice obtusissime latissimeque rotundatis, postice brevissime noduloseque stipitatis, paraphysatis, 8-sporis; sporidiis ellipticis, 25–35 \approx 12–14, rectis vel vix inæquilateralibus, primo crasse muco vestitis dein nudis, septis 5 transversis, ad medium tantum constrictis, 1–2–(rarissime 0 v. 3–) longitudinalibus donatis, utrinque acutiusculis, oculis 3–superis crassioribus hyalinis.

Hab. ad folia emortua, exsiccata, adhuc pendula Leguminosæ herbacæe ejusdam, Paraguay Bras.

- *42. **Pleospora abbreviata** Fuck. Reis nach Nordpolarm. III, et Oudemans Contr. Fl. Myc. Now Seml. p. 152, tab. II, fig. 8. — 7084
Peritheciis sparsis, demum subliberis, aterrimis, pro ratione minutis, globoso-conicis; ascis oblongo-ovatis, stipite laterali, brevi, 8-sporis, 88 \approx 34; sporidiis stipitatis, oblongo-ovatis, inæqualiter didymis, medio constrictis, 5-septatis, cum septis longitudinalibus, primo aureis dein fuscis, 24 \approx 12.

Hab. in calycibus et leguminibus exsiccatis Phacæ frigidæ, Nowaja Semlja.

52. **Pleospora Spegazziniana** Saccardo Syll. II, p. 257. *Var. betulina* 3764
Sacc. et Briard in Rev. Myc. 1885. — Peritheciis numerosissimis gregariis, primo cortice immersis, dein prominentibus epidermidemque eis adhærentem elevantibus, $\frac{1}{2}$ mm. diam., ostiolo papillato, rugoso, nigro; ascis oblongo-cylindræis, apice rotundatis, breviter stipitatis, 8-sporis, 192–200 \approx 26–32; paraphysibus filiformibus, septatis, quandoque apice incrassatis; sporidiis uniseriatis, obliquis v. subdistichis, ovato-oblongis, melleis, 7-septatis, muralibus, ad septa constrictis, 36–42 \approx 16–18.

Hab. in ramulis siccis Betulæ albæ prope Troyes Gallie (BRIARD).

- * 70. **Pleospora brachyasca** Pass, in litt. Berl. Fungi Moricollæ fasc. 7085
 11, tab. I, fig. 1-6. — Peritheciis amphigenis, minutis, 150-200 μ .
 diam., sparsis, globulosis, quandoque ostiolo obtuso, brevi donatis,
 atris; ascis amplis, saccatis vel sursum leniter attenuatis, basi ab-
 rupte breviterque stipitatis, foveolo perspicuo instructis, paraphy-
 sibus filiformibus, mox evanescentibus obvallatis, 110-120 \approx 24-27,
 octosporis; sporidiis ellipsoideis, parte superiore vix crassiore, 7-
 septatis, ad septa medium et pænultima leniter (Chlori-joduri-zynci
 ope distincte) constrictis, loculis hinc inde septulis uno, duobus
 raro tribus, longitudinalibus divisis, 24-30 \approx 10-12, luteis.

Hab. ad folia dejecta, putrida Mori albæ, Parma Italiæ bo-
 realis.

- * 73. **Pleospora Prostii** Pass. et Roum. in Rev. Myc. 1885, p. 169. 7086
 — Peritheciis sparsis, epidermide velatis, scutellatis, centro minute
 papillulatis, atris glabris, contextu carbonaceo, obscure celluloso;
 ascis clavatis vel gibboso-saccatis, membrana crassa præditis, 86-
 120 \approx 25, octosporis; sporidiis subdistichis vel oblique monostichis,
 oblongo-elliptis, obscure 7-9-septatis, muriformibus e flavo fusce-
 scentibus, nullibi constrictis, primitus strato mucoso, tenui obvo-
 lutis, 25-28 \approx 10-12; paraphysibus non visis.

Hab. in leguminibus fracidis Mimosæ Julibrissin in cali-
 dariis Horti Minnatensis.

- * 75. **Pleospora quadriseptata** Cooke et Harkn. in Grevillea XIV, 7087
 pag. 10. — Peritheciis subgregariis, convexis, atris, nitidis, initio
 epidermide velatis, parvulis; ascis clavatis, octosporis; sporidiis sub-
 ellipticis, distichis, quadriseptatis, vix constrictis; cellulis uno al-
 terove longitudinaliter divisis, brunneis, 20-22 \approx 8.

Hab. in scapis Leucoji in California (HARKNESS).

- * 76. **Pleospora pezizoides** Cesati. Cfr. Hedw. 1885, p. 262. — Peri- 7088
 theciis sparsis, quippe sed passim distincte seriatis, quia præcipue
 nervis foliorum prominentibus impositis, subcutaneis, erumpentibus,
 vertice ad maturitatem depresso, fere patellari, poro pertuso, ni-
 gris, opacis, diametro 1 mm., haud raro minoribus sterilescentibus;
 ascis facile diffluentibus, non observatis; sporidiis primitus navi-
 cularibus obsolete 3-septatis, 30 \approx 8, dein leviter soleiformibus,
 altero polo obtuso, altero breviter attenuato, viridulis, pluri-se-
 ptatis, incomplete muriformibus, 30 \approx 10-12.

Hab. in foliis vetustis Dracænæ australis in horto botanico
 Neapolitano Ital. mer. (CESATI).

- * 77. **Pleospora calida** Penz. et Sacc. Funghi Mort. pag. 7, tab. IV, 7089

fig. 2. — Peritheciis laxe gregariis, epidermide tectis, dein prorumpentibus, globosis, haud papillatis, contextu parenchymatico, nigro; ascis clavatis, breviter stipitatis, crasse tunicatis, 110–140 μ . long., 20–23 μ . crassis; paraphysibus numerosis, deliquescentibus; sporidiis subdistichis, ellipticis, triseptatis, ad septa leniter constrictis, cellula una alterave longitudinaliter divisa, brunneolis, 22–26 μ . long., 11–14 μ . crassis, mucō hyalino, evanido cinctis.

Hab. in squamis exsiccatis *Dracænæ* indivisæ, Mortola Italia boreali (O. PENZIG).

- *86. **Pleospora Harknessii** Berl. et Vogl. *Leptosphaeria straminis* 7090
Cooke et Harkn. in Grevill. XIV, pag. 10 nec S. et Sp. — Culmicola; peritheciis sparsis vel subgregariis, maculis effusis, nigrefactis insidentibus, erumpentibus, atris, convexis pertusis; ascis cylindrico-clavatis, octosporis; sporidiis lanceolatis quinquesepatis, leniter constrictis, fuscis, loculis binis centralibus longitudinaliter divisus, 32–35 \approx 6–8.

Hab. in culmis Tritici in California (HARKNESS).

- *88. **Pleospora planispora** Ell. in Torr. bot. Club. 1883, p. 53. — 7091
Peritheciis gregariis, siccitate collapsis, 250–330 μ . diam. epidermide vix decolorata tectis; ascis 114–120 \approx 25–28; sporidiis distichis, oblongo-ellipsoideis, applanatis, 5-septatis, loculis extimis septo longitudinali præditis, luteis, demum brunneis, 30–40 \approx 15–20 e latere 11 μ . crassis; paraphysibus copiosis.

Hab. in culmis putrescentibus verisimiliter Elymi. — Affinis *P. aureæ* a qua mycelio non abundante, sporidiis latoribus, constanter 5-septatis distinguenda.

- *97. **Pleospora ovoidea** Niessl Contr. Fl. Myc. Lus. p. 12. — 7092
Peritheciis sparsis in foliorum parenchymate innatis, ovoideis, majusculis, 0,5 mm. altis, numquam collapsis, rigidis, subcarbonaceis, atris, glabris, ostiolo brevi, conico, vix prominulo; ascis clavatis, stipite brevi, ut in *P. herbarum*, 8-sporis, 140–165 \approx 21–23; sporidiis oblique monostichis, ovoideo-oblongis, superne rotundatis, inferne attenuatis, medio constrictis, muriformibus, transverse 7-, in longitudine 1–3-septatis, obscure fuscis, 25–30 \approx 11–14; paraphysibus longis et crassis, guttulatis, simplicibus vel laxe ramosis.

Hab. ad folia emortua *Agaves americanæ*, Coimbra Lusitanicæ (MOLLER).

- *100. **Pleospora Arctagrostidis** Oudem. Cont. à la Flore myc. de 7093
Nowaja Semlja pag. 9, tab. I, fig. 1. — Peritheciis in foliis hy-pogenis, epidermide pro maxima parte tectis, 1 mm. diam., atris,

poro pertusis, glabris; ascis cylindræis, primitus saltim quam maxime stipatis, 116 \approx 30, 8-sporis; sporidiis distichis, obovato-oblongis, primitus mellei coloris, pellucidis, postea fusciscentibus, semipellucidis, medio parum constrictis, loculis horizontaliter, 6-septatis, plurimis septo verticali murali-divisis, 35 \approx 12.

Hab. in Arctagrostide latifolia, Nowaja Semlja.

102. **Pleospora Karstenii** Berl. et Vogl. Ita denominanda est *Pleospora arctica* Karsten Fungi Spetsb. n. 31 et Sacc. Syll. II, p. 271, nam alia *Pleospora arctica* Fuck. in Die zweite deutsch. Nordpolarf. II, pag. 32 exstat, quæ anterior.

- * 112. **Pleospora islandica** Johans. Svamp. från Island. pag. 170, tab. XXIX, fig. 12. — Peritheciis sparsis, globosis vel globoso-depressis, breviter papillatis, sub epidermide nidulantibus, demum per epidermidem fissam erumpentibus, atris, glabris, plerumque basi filamentis paucis, fuliginæis, obtusis cinctis, majusculis, 290-380 μ . diam.; ascis cylindræo-clavatis, in stipitem brevem attenuatis, octosporis, paraphysibus numerosis, articulatis v. guttulatis, simplicibus v. sparse ramosis, ascos superantibus, 125-150 \approx 23-27; sporidiis distichis, fusoidæo-oblongis, sæpe inæquilateralibus, rotundatis vel acutiusculis, rectis, transverse 7-10-septatis, medio constrictis, flavis, sepimento in longitudine uno (alterove) percurrente, loculis ultimis integris et sæpe pallidioribus, muco hyalino obvolutis, 34-45 \approx 10-14.

Hab. in culmis et vaginis Poæ cæsias, Holar Islandiæ bor.

- * 116. **Plenospora Engeliana** (Sauter) Winter Die Pilze II, p. 493. *Ducampia Engeliana* Saut. — Peritheciis gregariis, sæpe stipatis, initio immersis et ostiolo vix emergente, denique ad medium exsertis sphæroideo-conoideis, vertice poro amplo pertuso denique amplius hiantibus, nigris, majusculis; ascis cylindræis, elongatis, deorsum attenuatis octosporis, 160-165 \approx 10-11; sporidiis oblongis, medio profunde constrictis, utrinque acutiusculis, 3-5-septatis, addito sæpe septo longitudinali, flavo-brunneis, monostichis 21-25 \approx 8-9; paraphysibus copiosis.

Hab. in thallo Solorinæ saccatæ in Germania. — An eadem ac *Pl. Solorinæ*.

- * 121. **Pleospora Vogliniana** Sacc. in Rev. Myc. 1885, tab. LV, fig. 3. — Peritheciis subsparsis, peridermio dealbato tectis, globoso-depressis $\frac{1}{4}$ mm. diam., dein leniter emergentibus, ostiolo inconspicuo; ascis tereti-clavatis, breve distichis, oblongo-fusoidæis, 5-septato-muriformibus, ad septa leniter constrictis, 14-18 \approx 7, hyalinis.

Hab. in cortice Betulæ albæ circa Lutetiam Galliæ (FEUILLEAUBOIS).

- * 124. **Pleospora argyrospora** Harkn. New Calif. Fungi pag. 25. — 7097
Peritheciis minutis, nigris, erumpentibus, sparsis; ascis 8-sporis, clavatis, sessilibus, crasse tunicatis, 60-65 \approx 20; paraphysibus filiformibus; sporidiis hyalinis, distichis, elliptico-lanceolatis, 3-septatis, septis 1-2 longitudinalibus, 18 \approx 8.

Hab. in ramis emortuis Deudromeci rigidi, Tamalpais in California.

PYRENOPHORA Fr. — Sacc. Syll. II, pag. 277.

- * 6. **Pyrenophora depressa** Peck in Torr. bot. Club. 1884, pag. 28. 7098
— Peritheciis 250-350 μ . diam., depressis vel collapsis, primo epidermide tectis, demum erumpentibus vel liberis, nigris, sæpe basi filamentis mycelicis parcis, appressis, nigris, radiantibus cinctis, apice setis brevibus, parcis, erectis vel divergentibus, rigidis præditis; ascis cylindræis vel subclavatis, 110-150 μ . longis; sporidiis stipatis vel oblique monostichis, oblongis vel subobovatis, tri-septatis, uno vel duobus septulis longitudinalibus divisus, 28-35 \approx 15-20, coloratis.

Hab. in caulibus emortuis Arabidis, in California Amer. bor. (M. E. JONES).

- * 7. **Pyrenophora abscondita** Karst. in Hedw. 1884, n. 3, p. 1. — Rev. 7099
atque Synop. Ascom. fenn. pag. 39, *Sphæria abscondita* Karst. Fung. Lapp. or., p. 216, 1865 (Notis. in Sällök. pro Faun. et Flor. Fenn. Förh 8 h. 1882). — Peritheciis gregariis, epidermide tectis, rotundatis, plus minus deplanatis, rugulosis, atris; hyphis tortuosis, fuligineis, undique obsessis, punctiformibus; ascis clavatis, brevissime stipitatis, 60-100 \approx 10-18; sporidiis octonis, ellipsoideis vel ovoideo-oblongatis, utrinque attenuatis, ad medium constrictis, rectis v. leniter curvulis, mono-vel subdistichis, 3-5-septatis, septulo unico, hinc inde interrupto, accedente longitudinali, melleis, haud bene pellucidis, 17-21 \approx 7-9.

Hab. in caulibus vetustissimis Trollii europæi ad insulam maris glacialis Olenji.

- * 9. **Pyrenophora glacialis** (Niessl) Berl. et Vogl. *Pleospora glacialis* Niessl in Hedwigia 1885, pag. 236. — 7100
Peritheciis sparsis, sessilibus, atris, globosis, 3 mm. diam. parenchymatice fusce contextis, vertice setis 12 fuscis, acutis, rigidis, circ. 60 \approx 4-6 et basi hyphis plus minusve crebris et longis, septatis, simplicibus,

fuscis, 4 μ . cr. obsessis; ascis crassis, clavatis, 8-sporis, 120 \approx 30; sporidiis 2-stichis, plus minusve ovatis, obtusis, flavo-fuscis, transverse 8-septatis, longitudinaliter 3-septatis, medio haud constrictis, 30-36 \approx 15; paraphysibus filiformibus; Jodii ope episporio cœruleo-tincto.

Hab. ad folia et pedunculos siccos Cerastii latifolii juxta glaciem æternam montis Ortler prope Suldeu in Tirolia (Dr. REHM).

- * 13. **Pyrenophora paucitricha** (Fuck.) Berl. et Vogl. *Pleospora paucitricha* Fuck. in Die zweite deutsch. Nordpolarf. II, pag. 32, tab. I, fig. 3. — Peritheciis minutissimis, sparsis, subsuperficialibus, conicis, aterrimis, vertice pilis paucis, brevibus, rigidis, concoloribus obsitis; ascis ovato-oblongis, utrinque obtusis, subcurvatis, tunica crassa præditis, 8-sporis, 112-34; sporidiis imbricato-subdistichis, oblongo-ovatis, utrinque obtusis, rectis, 5-septatis muriformibusque, medio constrictis, fuscis, 34-13. 7101

Hab. in foliis exsiccatis delapsis Salicis arcticæ, Kaiser-Franz-Joseph-Fjord in Groenlandia.

- * 17. **Pyrenophora oligotricha** (Niessl) Berl. et Vogl. *Pleospora oligotricha* Niessl in litt. Rehm in Hedwigia 1885, p. 237. — Peritheciis gregariis, minutissimis, 0,2 mm. diam., sessilibus, globosis, atris, parenchymatice, fusce contextis, vertice setis 8 fuscis, acutis, simplicibus, septatis, rigidis, 60-120 \approx 5-6 et basi plerumque hyphis nonnullis, plus minusve longis, simplicibus, fuscis, circ. 4 μ . crass. obsessis; ascis elliptico-clavatis, brevissime stipitatis, crassis, 8-sporis, 75 (-90) \approx 18; sporidiis distichis, oblongis et subclavatis, obtusis, rectis, melleis, transverse 8-, longitudinaliter 1-septatis, medio haud constrictis, 21-25 \approx 9-10; paraphysibus filiformibus; Jodii ope episporio cœruleo-tincto. 7102

Hab. ad caules putridos Trifolii pallescentis juxta glacies æternas montis Ortler prope Sulden in Tirolia (Dr. REHM).

- * 21. **Pyrenophora chrysozona** (Niessl) Sacc. Syll. II, p. 285. *Var.* **polaris** Karst. in Hedw. 1884, p. 38, *Pleospora herbarum* Karst. Fungi Spetsb. p. 98, pr. p. — Peritheciis erumpentibus, subsphæroidis, sæpe ostiolo papillato, vertice setulis parvis, erectis, divergentibus, brevibus instructis, circ. 0,2 mm. latis; ascis oblongatis v. oblongato-clavatis, brevissime pedicellatis, 90-180 \approx 30-44; sporidiis octonis, di-vel subtristichis, ellipsoideis vel ovoideo-oblongatis, ad medium vix vel leniter constrictis, utrinque obtusis, transverse 7-raro 5-septatis, septulis longitudinalibus hinc inde interruptis 1-3 accedentibus, rectis, inæquilateralibus vel leniter curvulis, aureis 3861

vel melleis, demum in fuscum plus minus vergentibus, 30-53 \approx 18-27; paraphysibus parum notabilibus.

Hab. ad folia plantarum variarum Di- et Monocotyledonearum in insulis Spetsbergen et Beeren Eiland.

- *23. **Pyrenophora fenestrata** Peck in Torr. Bot. Club. 1884, p. 28. 7103
— Peritheciis 280-370 μ . diam., depressis, primum epidermide tectis, demum erumpentibus et liberis, setis parvis, rigidis, divergentibus præditis; ascis evanidis; sporidiis oblongis, fenestratis, dense coloratis, in massa nigris, 40-50 \approx 18-22, transverse 7-septatis, medio sæpe constrictis.

Hab. in caulibus herbaceis emortuis, Utah Amer. bor.

- *27. **Pyrenophora aparaphysata** (Therr.) Berl. et Vogl. *Pleospora* 7104
aparaphysata Therr. in Rev. Myc. 1882, pag. 220. — Peritheciis majusculis, $\frac{1}{4}$ - $\frac{3}{4}$ mm. diam., compressis, hysteriiformibus vel subsphæroideis, primum epidermide tectis, demum erumpentibus et tum subsuperficialibus, nigris, dein nitidis, basi tomento byssino, radiante, rufescente, fugaci cinctis, ostioliis setis nonnullis, rigidis, radiantibus præditis; ascis saccatis, breviter stipitatis, crasse tunicatis, 120-150 \approx 14-20, octosporis; sporidiis oblongis, ellipticis, 5-7-septatis, murali divisis, septis levissime contractis, 20-25 \approx 8-10 subflavidulis.

Hab. in culmis senescentibus Secalis, Lyon Galliæ.

JULELLA Fabr. — Sacc. Syll. II, pag. 289.

104. **Julella Tulasnei** (Crouan) Berl. et Vogl. Huc ducenda *Rosellinia* 1119
Tulasnei Sacc. Syll. I, p. 276 (Cfr. iconem Crouanianam).

TEICHOSPORA Fuck. — Sacc. Syll. II, p. 291.

- *4. **Teichospora Eucalypti** (Cooke et Hark.) Berl. et Vogl. *Sphaeria* 7105
Eucalypti Cooke et Harkness in Grevillea XIII, p. 20. — Sparsa; peritheciis subsuperficialibus, parvis, subglobosis, atris; ascis cylindræis, octosporis; sporidiis uniseriatis, ellipticis, medio leniter constrictis, 5-7-septatis muriformibusque, fuscis, 20-22 \approx 8.

Hab. in ligno putri Eucalypti in California.

- *5. **Teichospora vilis** (Fr.) Berl. et Vogl. *Sphaeria vilis* Fr. S. M. II, 3226
p. 466, *Melanomma vile* Fuck. Symb. myc. p. 160, Sacc. Syll. II, p. 100, Winter in Hedwigia 1886, pag. 103. — Sporidia oblonga, utrinque rotundata, transverse 3-septata, cellulis mediis plerumque longitudinaliter septatis, medio constricta, luteo-fusca, 12-15 \approx 4-5,5.

- *6. **Teichospora oxythele** Sacc. et Br. *Myc. Mic.* II, p. 22, n. 98, 7106
tab. X, f. 24. — Peritheciis sparsis, e basi infossa superficialibus, globoso-conicis, $\frac{3}{4}$ mm. diam., atris, carbonaceis, ostiolo acute papillato; ascis, tereti-cylindræis, breve et crasse stipitatis, paraphysatis, octosporis, 100-120 \approx 14-16; sporidiis oblongo-ellipsoideis, utrinque rotundatis, 26-30 \approx 9-11, 5-septatis parceque muriformibus, non constrictis, fuligineis.

Hab. in cortice duriore Salicis, Troyes Galliae (BRIARD).

17. **Teichospora breviostris** (Fr.) Fuck. — Sacc. *Syll.* II, p. 295, 3892
Winter in Hedwigia 1886, p. 103. — Perithecia demum plus minusve emergentia v. ostiolo tantum emersa, rugulosa, ostiolo conico-subcylindræo, perforato prædita, 450-470 μ . lat., 600-660 μ . alta; asci deorsum attenuati, 95-120 \approx 10-12; sporidia plerumque subinaequilateralia, 3-5 transverse septata, sepimento in longitudine uno, imperfecto, ad septa non vel perparum constricta, obliqua monosticha, aureo-fuscidula, 14-19 \approx 7-7,5; paraphyses filiformes.

19. **Teichospora obducens** (Fr.) Fuck. — Sacc. *Syll.* II, p. 295, *Var. Hippophaes* 3894
Karst. in Hedw. 1884, n. 4, p. 5, et *Rev. atque Synop. Asc. fenn.* p. 33. — Sporidiis ovoideis, ad medium constrictis, 5-7-septatis, loculis, ultimis exceptis, septulo unico, longitudinali divisus, luteolis vel flavis, pellucidis, 22-27 \approx 9-12.

Hab. ad lignum ramorum Hippophaëis rhamnoidis prope Vasam Fenniae.

20. **Teichospora ignavis** (De Not.) Karst. — Sacc. *Syll.* II, p. 296, Winter in Hedwigia 1886, p. 103. Sec. cl. Winter (l. c.) huc referenda est *Teich. Morthieri* Fuck. — Perithecia sparsa vel subgregaria, mox initio superficialia, mox primo immersa, demum erumpentia, ostiolo distincto, papilliformi, obtuso, perforato, sæpe circa ostiolum umbilicata, rugulosa, $\frac{1}{2}$ mm. diam., substantia crassa firma; sporidia 7-septata, flavo-fusca, murali-divisa.

- *21. **Teichospora Olenjensis** Karst. in Hedw. 1884, n. 4, p. 5. — *Rev.* 7107
atque Synop. Ascom. fenn. p. 33. — Peritheciis subgregariis, basi applanatis, levibus, atris, ostiolo papillato, 4-5 mm. lat.; sporidiis octonis, elongatis, utrinque attenuatis, ad medium plus minus constrictis, 7-9-septatis, loculo uno alterove septulo unico longitudinali divisio, fuscis vel fuligineis, impellucidis, 40-51 \approx 10-15.

Hab. in ramis decorticatis aridis Salicum in insula Olenji Maris glacialis.

- *34. **Teichospora muricata** Ell. et Ev. in *Bull. Wash. Lab. Nat. Hist.* 1884, p. 5. — Peritheciis superficialibus, hemisphaericis, $\frac{1}{3}$ - $\frac{1}{2}$

mm. diam., sparsis vel subgregariis, udis olivaceis, siccis atris collapsisque, muricato-rugulosis, sæpe circa ostiolum prominulum, subcompressum radiato-sulcatis; ascis $125 \approx 15$, evanescentibus; paraphysibus copiosis, crassiusculis. granulosis, $2\frac{1}{2}$ -3 μ . latis; sporidiis oblongo-ellipsoideis, $18-25 \approx 10-11\frac{1}{2}$, 3-septatis, demum submuriformibus, brunneis.

Hab. in cortice exteriori arborum, San Diego Amer. bor. (C. R. Oerstr.). — A *T. pezizoide* peritheciis rugosis, majoribus, demum collapsis, ascorum sporidiorumque magnitudine differt.

- * 35. **Teichospora patellaris** Karst. Fung. Fenn. atque Sib. in Medd. 7100
af Soc. pro Faun. et Fl. fenn. II, 1884, p. 139. — Rev. atque Synop. Ascom. fenn. p. 34. — Peritheciis subgregariis, erumpenti-superficialibus, atris, opacis, 4-6 mm. lat.; ascis cylindræo-clavatis, $150 \approx 14$; sporidiis octonis, monostichis, sphæroideo-ellipsoideis, 3-septatis, septulo longitudinali obsoleto accedente, loculis guttula unica, minuta, chlorina præditis, $15-21 \approx 10-12$; paraphysibus filiformibus.

Hab. ad lignum et corticem truncorum resinorum pr. Ter-vasalmi in parœcia Kuhmo Ostrobotniæ in Fennia.

- * 42. **Teichospora Wainioi** Karst. Fung. Fenn. atque Sib. in Medd. af 7110
Soc. pro Faun. et Fl. Fenn. II, 1884, p. 139, et Rev. atque Synop. Ascom. fenn. p. 33. — Peritheciis gregariis, demum superficialibus, ovoideo-sphæroideis, tandem sæpe vertice plus minus collapsis, scabriusculis, vix nitentibus, nigris, 3-4 mm. lat., ostiolo papilliformi; sporidiis di- vel submonostichis, ovoideo-oblongatis vel elongatis, 2-6, vulgo 3-6-septatis, raro loculo secundo vel tertio septulo longitudinali diviso, ad septa leviter constrictis, rectis vel subcurvulis, fuscidulis, pellucidis, $15-21 \approx 5-6$; paraphysibus numerosis, filiformibus, haud bene discretis.

Hab. ad lignum vetustum in parœcia Hollola Fenniæ. — *Teichosporæ deflectenti* proxima.

- * 45. **Teichospora rostrata** Karst. in Rev. Myc. 1885, pag. 107. — 7111
Peritheciis discretis vel concretescentibus, primitus sub epidermide nidulantibus, demum liberis, superficialibus, subsphæroideis, atris, ostiolo conoideo obtuso, peritheciis duplo brevioribus, circiter 0,4 mm. lat.; ascis cylindræis, $125 \approx 10$, octosporis; sporidiis monostichis, ellipsoideis, utrinque obtusissimis, ad medium constrictis, 3-5-septatis, loculis mediis septo longitudinali divisis, hyalinis, $16-21 \approx 9-10$; paraphysibus haud bene discretis.

Hab. ad ramos exsiccatos Ribis alpini prope Mustiala Fenniciæ. — *T. propendulæ* affinis.

- *46. **Teichospora cervariensis** Sacc. et Berl. Misc. Myc. II, p. 28, 7112
n. 124, tab. VIII, fig. 5. — Peritheciis basi adnata superficialibus, globoso-conicis, breve sed acute papillatis, $\frac{1}{3}$ mm. diam., atris, laxe gregariis, glabris; ascis tereti-clavulatis, brevissime stipitatis, parce paraphysatis, 160-170 \approx 20-25, octosporis; sporidiis subdistichis, oblongo-fusoideis, utrinque acutiusculis, 10-12-septato-muriformibus, ad septa duo intermedia parum constrictis, 50 \approx 16, hyalinis.

Hab. in ramis putridis decorticatis Quercus pedunculatæ, Cervarese in provincia patavina Ital. bor.

Observatio

Genus **Winteria** in Sylloge sub *Hyalophragmiis* militans, sporidiis septulis longitudinalibus præditis potius inter *Dictyosporas* adhibendum (Confr. Winter Die Pilze II, p. 280) et apud genus *Teichosporam* locandum.

WINTERIA Rehm — Sacc. Syll. II, pag. 225.

1. **Winteria crustosa** E. et E. in Jour. of Myc. I, p. 149. — Peri- 7113
theeciis membranaceis, $\frac{1}{3}$ - $\frac{1}{2}$ mm., depresso-hemisphæricis, tuberculosus, apice rugosis, laciniato-ruptis, partim connexis vel insidentibus, subiculo atro, crustaceo, plus vel minus distincto; ascis clavato-cylindræis, 65-80 \approx 10; paraphysibus (?) filiformibus, mox in materia granulati solutis; sporidiis biseriatis, fusiformibus, 20-25 \approx 4-5, luteolis vel hyalinis languidis, gelatina involutis, plasmate in parte media diviso, raro 3-partito.

Hab. in ligno decorticato Quercus, West Chester, Amer. bor.
— «Sporidia an revera muriformia?».

2. **Winteria rhoïna** (E. et E.) Berl. et Vogl. *Sphæria rhoïna* E. et E. 7114
in Jour. of Myc. I, p. 149. — Peritheciis erumpentibus, dense gregariis, subseriatis, subglobosis, atris $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., membranaceis, tenuibus, vel collapsis et tunc concavis vel patellæformibus, ostiolo papilliformi vel plerumque 4-5-stellato-rupto; ascis 45-60 \approx 7-8, in parte media amplis; paraphysibus validis, linearibus, nucleolatis; sporidiis biseriatis, fusiformibus, luteolis, nucleolatis, rectis vel leniter curvatis, interdum constrictis, 20-25 \approx 2 $\frac{1}{2}$ -3.

Hab. in ligno putri Rhoïscopallinæ, Newfield, Amer. bor.
— «Sporidia an revera muriformia?».

3. **Wintertia cœrulea** (E. et E.) Berl. et Vogl. *Sphæria cœrulea* E. 7115
et E. in Journ. of Myc. I, 1885. — Peritheciis sparsis, membranaceis, applanatis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., epidermide primo integra, dein partim rupta et iis adhærente tectis, ostiolo amplo, papilliformi, obtuso, demum collapsio et tum umbilicatis; ascis 75-114 \approx 15-17, oblongo-cylindræis, 8-sporis inferne abrupte contractis, basi valida; paraphysibus, basi acutis, luteolis, multiseptatis (8-12), et submuriformibus, 30-35 \approx 7-8.

Hab. in cortice viva Coniferæ cujusdam in Americæ bor. (W. N. SUKSDORF).

4. **Wintertia excellens** (Rehm) Sacc. Syll. II, pag. 226 est *Discomy-* 3678
ces, *Odontotremati minori* peraffinis (Confr. Winter Hedwigia 1886, pag. 103).

PLEOSPHERIA Speg. — Sacc. Syll. II, p. 304.

- * 4. **Pleosphæria modesta** Harkn. New Calif. Fungi p. 26. — Peri- 7116
theciis superficialibus, orbicularibus, nigris, 135 μ . diam., setis rigidis, nigris, 40-50 μ . longis ornatis; ascis octosporis, ovatis vel late fusoides, 45-50 \approx 15-20; paraphysibus nullis; sporidiis ellipticis, 3-4-septatis, septis 2 longitudinalibus, pallide olivaceo-brunneis, 10 \approx 6.

Hab. in ramis decorticatis, putrescentibus Eucalypti, San Francisco in California.

CROTONOCARPIA Fuck. — Sacc. Syll. II, p. 306.

1. **Crotonocarpia moriformis** Fuck. — Sacc. Syll. II, p. 306, Winter 2932
in Hedwigia 1886, p. 101. — Asci cylindrici, breve pedicellati, 8-spori, 175 \approx 14-16.

CUCURBITARIA Gray. — Sacc. Syll. II, p. 307.

- * 4. **Cucurbitaria Coremæ** Ell. et Ev. in Torr. Bot. Club. 1883, p. 89. 7117
— Peritheciis primum epidermide tectis, demum liberis, ovatis, nigris, rugosis, 160-330 μ . diam., ostioliis late papilliformibus vel obtuse conoideis; ascis cylindræis, 150 \approx 15; sporidiis monostichis vel oblique aut partim distichis, ellipsoideis vel oblongo-ellipsoideis, primo luteis demum brunneis, circiter 7-septatis, nonnullis septulis longitudinalibus, imperfectis divisis, medio constrictis, 20-25 \approx 7-9.

Hab. in ramis emortuis Coremæ Conradii, Willow Grove in America boreali.

10. **Cucurbitaria Amorphæ** (Wallr.) Fuck. — Sacc. Syll. II, p. 311. 3944
 — Asci longe pedicellati, 155-175 \approx 12-16; sporidia monosticha, 5-7 transverse septata, muriformia, medio subconstricta, 21-30 \approx 9-11.
- * 10. **Cucurbitaria longitudinalis** Peck in 33 Rep. St. Mus. pag. 31, 7118
 tab. 2, fig. 23-26. — Peritheciis 500-750 μ . diam., subglobosis, in series longitudinales dispositis in rimis corticis, nigris, apice perforatis; ascis cylindraceutis; sporidiis monostichis, 4-5-septatis, 1-2-septis longitudinalibus divisis, coloratis, 28-32 \approx 10-12,5.
Hab. in caulibus *Andromedæ ligustrinæ*, Center in America boreali.
12. **Cucurbitaria delitescens** Sacc. Syll. II, p. 311, ***Prunorum** Sacc. 3946
 in Misc. Myc. I, p. 5. — Peritheciis in cæspitulos collectis, transverse erumpentibus, globosis subinde confluentibus, obtuse papillatis, minutis, atris, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam.; ascis tereti-clavulatis, paraphysatis, breve stipitatis, 170 \approx 20-25 p. sporif., octosporis; sporidiis oblique monostichis, obovato-ellipsoideis, apice obtusioribus, 28-32 \approx 15, 7-septatis denseque muriformibus, ad septum medium manifeste, ad cetera vix constrictis, 25-32 \approx 12-15, olivaceo-fuligineis.
Hab. in ramis corticatis *Pruni spinosæ* prope Troyes Galliæ (BRIARD). — A typo præcipue sporidiis majoribus differt.
15. **Cucurbitaria acervata** Fr. — Sacc. Syll. II, p. 313, Winter in 3949
 Hedwigia 1886, pag. 105. — Asci 120-160 \approx 14-16; sporidia 5-7 transverse septata, in longitudine septo uno et sæpe imperfecto, fusca, 19-21 \approx 8-9.
24. **Cucurbitaria Negundinis** Winter in Hedwigia 1886, p. 105, *Cu-* 3958
curbitaria Ailanthi Rab. F. Eur. n. 1833, Sacc. Syll. II, p. 315.
 — Perithecia plerumque conferta, mox superficialia, demum subumbilicata, scabra, nigra, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam.; ascis 4-6-8-spori, 140-180 \approx 14-16; sporidia monosticha, oblonga, utrinque acutiuscula, medio constricta, sæpe inæquilateralia, aureo-fusca, 7-septata, muriformia, 26-30 \approx 10-11; paraphyses filiformes. — In *Negundine*!
- * 26. **Cucurbitaria Cingarus** Schulz et Sacc. in Rev. Myc. 1884, Schulz. 7119
 Ill. fung. Slav. n. 797. — Peritheciis hinc inde cæspitose aggregatis, initio peridermio tectis dein erumpentibus, globoso-depressis, minutulis, $\frac{1}{3}$ mm. vix diam., subcarbonaceis, opace nigris, ostiolo impresso minuto; ascis tereti-clavulatis, paraphysatis, octosporis, subsessilibus; sporidiis subdistichis, subellipticis, utrinque obtuse acutatis, 30-38 \approx 12-15, 5-septatis parceque muriformibus, ad septa vix constrictis, melleis.

Hab. in ramis corticatis Coryli Avellanæ prope Vinkovce Slavoniæ. — Adsunt perithecia spermogonica subsimilia (*Phoma Cingarus*), sporulis subglobosis vel ovoideis, 4 μ . longis, hyalinis; basidiis triplo longioribus suffultis.

- *36. **Cucurbitaria hirtella** Bacc. et Avett. Contr. Stud. myc. roman. 7120
p. 17, t. XVI, f. 5. — Peritheciis stromate pulvinato, late effuso-insidentibus, nigris, sphæroideis vel piriformibus, initio tectis dein erumpentibus, aculeis brevibus, conicis, concoloribus hirtis, ostiolo papillato, conico; ascis 8-sporis, clavulatis, evanescentibus, 55-75 \approx 11-14; sporidiis inordinatis vel distichis, pallide luteolis, transverse tri-vel tetrseptatis, loculis mediis longitudinaliter uniseptatis, ellipticis, ad medium constrictis, 14-20 \approx 7; paraphysisibus non visis.

Hab. in ramulis putrescentibus Sambuci, Roma Ital. merid.

39. **Cucurbitaria salicina** Fuck. — Sacc. Syll. II, p. 320. *Var. popu-* 3973
lina Bacc. et Avett. Contr. Myc. Rom. pag. 19, tab. I, fig. 13-17. — A typo differt præcipue sporidiis ovoideo-oblongis, medio non constrictis, brevioribus crassioribusque, 18-20 \approx 9-11, nec non matrice.

Hab. in ramis exsiccatis Populi, sociâ *Diptodiâ salicinâ* Roma Ital. merid.

45. **Cucurbitaria Dulcamaræ** Fr. — Sacc. Syll. II, p. 321, Winter in 3979
Hedwigia 1886, p. 105. — Perithecia acervulos vel cæspites minutos, rotundatos, ellipticos seu oblongos, sæpe confluentes elongatosque, erumpentes formantia, mox depressa et collapsa, nigra; asci cylindraceuti, deorsum attenuati, 8-spori, 130-160 \approx 12-14; sporidia monosticha, oblonga, medio subconstricta, 3-8 transverse septata, sepimento uno, plerumque imperfecto in longitudine, 19-25 \approx 9-10,5, rarius 35 μ . longa; paraphyses filiformes.

- *46. **Cucurbitaria umbilicata** Ell. in Torr. Bot. Club. 1883, p. 53. — 7121
Peritheciis sparsis, depresso-hemisphæricis, nigris, rugosis, 330-500 μ . diam., sursum siccitate collapsis; ascis cylindraceutis, 114 \approx 11; sporidiis sæpe monostichis, ellipsoideis, primo 3-septatis, medio constrictis, luteis, dein muriformibus, brunneis, 22-28 \approx 9 $\frac{1}{2}$ -13.

Hab. in caule decorticato Salviæ (*Sage-brush*) Utah Amer. bor. (HARKNESS).

THYRIDIMUM Sacc. Syll. II, p. 323.

- *1. **Thyridium Garryæ** (Cooke et Hark.) Berl. et Vogl. *Sphæria Gar-* 7122
ryæ Cooke et Harkness in Grevillea XIII, p. 20. — Gregarium sparsumve; peritheciis semiimmersis, subglobosis, atris, $\frac{1}{2}$ mm. d., poro pertusis; ascis cylindraceutis, 4-8-sporis; sporidiis ellipticis, 7-

septatis muriformibusque, hyalinis, demum flavido-fuscis, 40-45 = 15-18; episporio crasso, hyalino.

Hab. in ramis decorticatis, dealbatis Garryæ in California (HARKNESS).

- *2. **Thyridium antiquum** (Ell. et Ev.) Berl. et Vogl. *Sphæria anti-* 7123
qua Ell. et Ev. in Torr. bot. Club. 1883, pag. 91. — Peritheciis sæpe solitariis, globosis, 250-330 μ . diam., 2-3-gregariis, cortice immersis atque fibris corticis, sursum nigrescentis, tectis eunque in pustulas tuberculiformes elevantibus, ostioli papilliformibus, demum perforatis; ascis cylindræis, 75-80 = 10; paraphysibus filiformibus, copiosis; sporidiis monostichis, oblongo-ellipsoideis, demum triseptato-muriformibus, 17-19 = 7, brunneis.

Hab. in cortice interiore truncorum *Vitis viniferæ* Newfield Amer. bor.

- *4. **Thyridium personatum** (Cooke et Hark.) Berl. et Vogl. *Sphæria* 7124
personata Cooke et Harkn. in Grevillea XIII, p. 20. — Lignicolum; peritheciis sparsis in tuberculo ligneo, ellipsoideo, elevato, griseo vel nigrescente nidulantibus, ostiolo brevi, vix conspicuo, pertuso; ascis cylindræis, octosporis; sporidiis uniseriatis, ellipticis, medio constrictis, triseptatis, septis 1-2-longitudinalibus percursoris, læte brunneis, 18-20 = 10.

Hab. in ligno decorticato *Acaciæ* in California (HARKNESS).

FENESTELLA Tul. — Sacc. Syll. II, p. 325.

- *1. **Fenestella callispora** (Duby) Cooke in Grev. XIV, p. 48, *Sphæ-* 7125
ria callispora Duby in herb. Curtis. — Immersa, pustulata, erumpens, epidermide fissa tecta; peritheciis paucis, minutissimis, globosis, congestis; ostioli subnullis; ascis clavatis; sporidiis elliptico-acuminatis, magnis, biserialibus, quinqueseptatis muriformibusque, luteo-fuscis, 30-40 = 18.

Hab. in ramis *Broussonetiæ papyrifæræ*, Geneve Helvetiæ.

- *6. **Fenestella hormospora** (Berk. et Curt.) Cooke in Grevillea XIV, 7126
pag. 48, *Valsa hormospora* Berk. et Curt. in Herb. Berk. *Valsa conjuncta* Schwein. (nec Fries) Amer. n. 1383. — Peritheciis paucis, in circulos irregulares confertis, disco erumpente, orbiculari, albido, pulverulento; ostioli brevibus, subconjunctis; ascis amplis, clavatis; sporidiis subellipticis, utrinque muticis, medio constrictis, 5-septatis, demum merenchymaticis, fuscis.

Hab. in ramis, Bethlehem Amer. bor.

- *10. **Fenestella schistostroma** (Duby) Cooke in Grevillea XIV, p. 48, 4504

Sphæria schistostroma Duby in Rab. Fungi Eur. n. 53 et Sacc. Syll. II, p. 441. — Immersa, demum erumpens, epidermide cincta; peritheciis 5-15 aggregatis, ovatis, verticalibus inclinatisve, stromate nigro, inæquabili, primum compacto, demum in fragmenta plura diffisso tectis; ostioliis vix prominulis, sæpe obsolete; ascis cylindrico-elongatis rigidis; sporidiis uniserialibus, ovoideo-ellipsoideis, primo uni-demum 3-5-septatis, et tandem merenchymaticis, hyalinis.

Hab. in ramis Ribis aurei, Geneve Helvetiæ.

Sect. 9. Scolecosporæ Sacc.

OPHIOBOLUS Riess. — Sacc. Syll. II, p. 337.

- *1. **Ophiobolus olivaceus** (Ellis) Berl. et Vogl. *Leptosphæria olivacea* Ellis in Torr. Bot. Club. 1188 p. 53. — Peritheciis submembranaceis, circiter 250 μ . diam., substantia caulis immersis, epidermide vix elevata olivaceo-brunnea, ostiolo late rugoso, obtuso perforata tectis; ascis clavatis, 75-85 \approx 15-18; sporidiis stipatis, luteo-brunneis, vermiformibus, 6-7-septatis, demum ad septa leniter constrictis, 75 \approx 3 $\frac{1}{2}$ -4, loculo tertio, ab apice, leniter inflato.

Hab. in caulibus herbaceis, Utah Amer. bor. (HARKNESS).

- *2. **Ophiobolus vulgaris** Sacc. Syll. II, p. 338. *Var. Gnaphalii* Sacc. et Br. in Rev. Myc. 1885. — Peritheciis innatis, conico-globosis, $\frac{1}{3}$ mm. diam., tomento matricis immersis; ostiolo papillato, prominulo; ascis cylindraceo-clavatis, sessilibus, basi nodosulis, octosporis, 120-132 \approx 6-7; paraphysibus crassis, simplicibus, paucis; sporidiis fasciculatis parallelis, luteis, filiformibus, curvis vel flexuosis, multiguttulatis vel multiseptatis, 108-124 \approx 2-3.

Hab. in caulibus exsiccatis Gnaphalii silvatici, Troyes Galliæ (BRIARD).

- *3. **Ophiobolus Medusæ** E. et E. in Jour. of Myc. I, p. 150. — Peritheciis membranaceis, sparsis, depresso globosis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., epidermide non nigrescente, nec elevata, sed ostiolo atro punctiformi perforata tectis; ascis longissimis, 400 \approx 12-15, 8-sporis; sporidiis filiformibus, curvatis; ascorum longitudinem æquantibus, in parte media 3-3 $\frac{1}{2}$ μ . latis, utrinque gradatim conicis, luteolis v. fere hyalinis, endochromate multi-partito.

Hab. in caulibus Spartinae, Cape May Amer. bor.

- *7. **Ophiobolus claviger** Harkn. New Calif. Fungi p. 26. — Peritheciis globularibus, ostiolo papillato præditis, gregariis vel sparsis,

erumpentibus, demum liberis, $\frac{1}{3}$ -1 mm. diam., initio spermatiis minutis farctis; ascis lineari-clavatis, octosporis, 210 \approx 14; paraphysibus filiformibus, vacuolatis; sporidiis pallide brunneis, 20-25-septatis, in tertia parte superiori sæpe tumidulis et constrictis, 140 \approx 7.

Hab. in caulibus repentibus Audibertiæ humilis, Folsom Californiæ.

- *8. **Ophiobolus Humuli** Karst. in Hedw. 1884, n. 6, p. 2. — Rev. 7130 atque Synop. Ascom. fenn. pag. 28. — Peritheciis subgregariis, denique subsuperficialibus, subsphæroideis v. sphæroideo-conoideis, subinde leviter depressis, atris, filamentis griseis obsessis, ostiolo conoideo vel cylindraceo, perithecii diametrum sæpe æquante, 3 mm. lat.; ascis cylindraceo-clavatis, 90-120 \approx 7-10; sporidiis octonis, filiformibus, æqualibus, curvatis, pluriguttulatis, dilute luteolis, 75-90 \approx 2; paraphysibus parvis, 2-3 μ . crass.

Hab. in caulibus aridis Humuli Lupuli ad Mustiala Fenniæ.

- *9. **Ophiobolus incomptus** Niessl in Linh. Fung. hung. n. 472. — Peritheciis 7131 disseminatis, sub epidermide pallescente globosis, vix depressis, 0,26-0,30 mm. diam., atris, glabris, ostiolo conico, mox brevi, apice rotundato; ascis cylindraceis, in stipitem brevem attenuatis, 115-135 \approx 9-10, octosporis; sporidiis stipatis, filiformibus sed inferne leniter angustatis, 15-17(plerumque 16)-cellularibus, loculo quarto vel quinto sæpe nodoso, parum flexuosis, dilute lutescentibus, 95-110 \approx 3; paraphysibus simplicibus vel laxe ramosis.

Hab. in caulibus emortuis Dipsaci silvestris, Petroszeny Hungariæ.

- *19. **Ophiobolus stenosporus** Karst. in Hedw. 1883, n. 12, p. 3. — Rev. 7132 atque Synop. Ascom. fenn. pag. 28. — Peritheciis sparsis, primitus epidermide tectis, dein denudatis, forma variis, ut plurimum sphæroideis, exiguis, basi hyphis sparsis, fuligineis cinctis, ostiolo brevi; ascis cylindraceis, 90-116 \approx 6-7; sporidiis octonis, filiformibus, flexuosis, pluriguttulatis, luteolis, 50-80 \approx 1-1,5; paraphysibus flexuosis.

Hab. in caulibus Scrophulariæ nodosæ emortuis prope Mustiala.

25. **Ophiobolus Hesperidis** Sacc. Syll. II, p. 343. *Var. Geranii* Karst. 4042 in Hedw. 1884, n. 1, p. 3. — Rev. atque Synop. Ascom. fenn. p. 27. — Peritheciis innato-emergentibus, subgregariis, ostiolo acuto, conoideo, subinde perithecium dimidium subæquante, exsertis, minutis; ascis anguste cylindraceis, subsessilibus, tortuosis, 150-170 \approx 6-7; sporidiis filiformibus, simplicibus vel guttulatis, ex hyalino

dilute luteolis, fere longitudine asci, 1-1,5 μ . crass.; paraphysibus filiformibus.

Hab. in caulibus emortuis Geranii silvatici ad Mustiala Fenniae — Parum vel vix differt ab *Oph. tenello*.

- * 37. **Ophiobolus Morthieri** Sacc. et Berl. Misc. Myc. pag. 20, n. 87, 7133
tab. X, fig. 20. — Peritheciis gregariis, globoso-conoideis, atris, ostiolo brevi, nudo, $\frac{1}{2}$ mm. diam., demum detectis, hyphis adpressis, radiantibus, ochraceo-fuliginis, tortuosis, septatis, 4-5 μ . cr. vestitis; ascis cylindræis, breve stipitatis, paraphysatis, 100-120 \approx 8-10 p. spor., stip. 30-35 μ . long. v. brevioris; sporidiis cylindræo-bacillaribus, 90-100 \approx 2, 8-multiguttulatis, eximie convolutis, e hyalino dilutissime luteolis.

Hab. ad caules Gentianæ luteæ aux Loges près Neuchâtel Helvetiæ. — Affinis *Oph. persolino* et *O. pellito*, a quibus sporidiis valde curvis et ascis conspicue brevioribus satis differt.

- * 43. **Ophiobolus byssicola** Harkn. New Calif. Fungi pag. 26. — 7134
Peritheciis globosis, ostiolo prominulo, superficialibus, $\frac{3}{4}$ -1 mm. d., in subiculo sordide brunneo nidulantibus; ascis octosporis, cylindræo-clavatis, pedunculo gracili, basi incrassato præditis, 170 \approx 16; sporidiis pallide brunneis, cylindræis, utrinque obtuse attenuatis, 20-30-septatis, constrictis, 120-140 \approx 4-6, loculo apicali et uno v. tribus, inæquali intervallo, globuloso-inflatis.

Hab. in ramis decorticatis Sambuci glaucæ, Blue Canon in California.

- * 44. **Ophiobolus inflatus** Sacc. et Br. in Rev. Myc. 1885. — 7135
Peritheciis sparsis, vix conspicuis, cortice immersis, basi hyphis brunneis cinctis; ostiolo obtuso, punctiformi, epidermidem perforante; ascis cylindræo-clavatis, sessilibus, basi nodulosis, octosporis, 120-160 \approx 8-10, paraphysibus filiformibus obvallatis; sporidiis fasciculatis, parallelis, filiformibus, pallide luteis, multiguttulatis vel simplicibus, subinde medio annulatim inflatulis, curvis vel flexuosis, 100-140 \approx 3.

Hab. in ramis emortuis delapsis Betulæ albæ, Troyes Galliæ (BRIARD).

- * 46. **Ophiobolus salicinus** Rostrup Islands Svampe p. 7. — 7136
Peritheciis sphæroideis, collabascensibus, atro-fuscis, radiato-striatis, ligno adhærentibus, cortice tectis; ascis cylindræo-clavatis, 80-100 \approx 6-9; sporidiis filiformibus, rectis, hyalinis, pluriseptatis, 50-70 \approx 2; paraphysibus filiformibus.

Hab. sub cortice Salicis glaucæ, Langardak Islandiæ.

- * 47. **Ophiobolus melioloides** Rich. Spher. nouv. in Bull. Soc. Bot. Franc. 7137
1885, pag. 11, tab. XI. — Peritheciis gregariis, superficialibus, ovoideis v. turbinatis, subtomentosis, dilute fuscis, apice nigricante; pilis dematiaceis, septatis, plerumque rectis, perithecia ad basin arcte cingentibus et maculas 2-4 mm. diam. metientes, hirtas, nigro-fuscas, orbiculares, sparsas, in pagina inferiore foliorum efformantibus; ascis cylindraceutis vel cylindraceuto-subclavatis, 8-sporis, 100 μ . longis; sporidiis filiformibus, ascos longitudine fere æquantibus, 90 μ . longis, dilute flavescensibus; paraphysibus filiformibus continuis.

Hab. in pag. inf. foliorum plantæ ejusdam in Nova Caledonia.

- * 59. **Ophiobolus compar** Karst. in Hedw. 1884, n. 1, pag. 2. — Rev. 7138
atque Synop. Ascom. fenn. p. 27. — Peritheciis sparsis, maculæ purpurascensibus insidentibus, subsuperficialibus, conoideo-sphæroideis, poro pertusis, atris, 2 mm. latis; ascis cylindraceutis, 120 \approx 5-6; sporidiis octonis, filiformibus, guttulatis, flavescensibus-hyalinis, ascum subæquantibus, 1 μ . crass.

Hab. ad caules Asparagi officinalis emortuos in Mu-
stia Fennicæ.

- * 60. **Ophiobolus versisporus** E. et M. in Journ. of Myc. 1885, p. 99. 7139
— Peritheciis gregariis vel sparsis, $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., epidermide nigrescente, circa ostiolum, breve obtusum, erumpens albescente tectis; ascis 70-80 \approx 8-9; paraphysibus non visis; sporidiis filiformibus, curvatis, primum multinucleatis demum pallide luteis, enucleatis, continuis, 60-70 \approx 2-2 $\frac{1}{2}$.

Hab. in petiolis emortuis Sabalis serrulatæ in Amer. bor. 7140

- * 62. **Ophiobolus Peltigerarum** (Arnold) Berl. et Vogl. *Leptosphaeria*
Peltigerarum Arnold Lichenol. Ausfl. in Tirol XVIII, p. 25, et
Winter Die Pilze II, p. 441. — Peritheciis minutis, sparsis, acervulos erumpentes formantibus, nigris; ascis longe cylindraceutis, 12-16-sporis; paraphysibus filiformibus, longe acicularibus, rectis vel leniter curvatis; sporidiis longe cylindraceutis, rectis vel leniter curvis, guttulis oleosis farctis, 90-100 \approx 3.

Hab. in thallo Peltigeræ aphotosæ in Tirolia. — «An diversus ab *Oph. Peltigeræ?*».

- * 63. **Ophiobolus Steinii** (Körber) Berl. et Vogl. *Leptosphaeria Stei-* 7141
nii Winter Die Pilze II, pag. 443, *Leptorhaphis Steinii* Körb.
in Bericht üb. botan. Lect. Schles. Ges. 1869, p. 67. — Peritheciis sparsis, fere omnino vel $\frac{2}{3}$ thallo immersis, globoso-depressis, ostiolo, atro, vix pertuso tantum prominentibus, molliusculis ob-

scure bruceis, 0,4 mm. diam.; ascis fere obpiriformibus utrinque attenuatis, sessilibus, 8-sporis, 57-61 \approx 9-10; paraphysibus distinctis, filiformibus gracillimis; sporidiis elongato-fusoides, inæquilateralibus vel leniter curvulis, 2-8-cellularibus, hyalinis, 22-40 \approx 2-3.

Hab. in thallo Lecanoræ frustulosæ in Germania.

- *64. **Ophiobolus Körberi** (Stein) Berl. et Vogl. *Leptosphaeria Körberi* 7112
Winter Die Pilze II, pag. 443, *Leptorhaphis Körberi* Stein in *Flechten Schles*, pag. 350. — Peritheciis primo immersis, mox subsuperficialibus, nigris, nitidis, minutis, sphaeroideis, apice poro minuto, sed distincto pertusis, 0,1 mm. diam.; sporidiis longe cylindraccis, plerumque rectis, et uno apice incrassatis, altero sensim attenuato-acutis, 4-8-septatis, hyalinis, 24-30 \approx 1-2, octonis; paraphysibus distinctis.

Hab. in thallo Körberiiellæ Wimmerianæ in Germania.

65. **Ophiobolus palustris** (Schr.) Berl. et Vogl. *Leptospora palustris* 7113
Schroet. über ein von R. Fritze Mad. und. Ten. ges. Pilze p. 4. — Peritheciis matrice immersis, globosis, ostiolo perforato instructis, 0,6 mm. latis, levibus, nigris, fragilibus; ascis cylindraccis, longe pedicellatis, 220-260 \approx 16-20, p. sp. 120-130, octosporis; sporidiis distichis, longe cylindraccis, irregulariter incurvatis, utrinque rotundatis, 60-70 \approx 8-10, continuis granulosisque, hyalinis.

Hab. in Algis gelatinosis exsiccatis in insula Madeira.

- *66. **Ophiobolus staphylinus** E. et E. in *Journ. of Myc. I*, p. 150. 7114
 -- Peritheciis minutis, ligni fibris tectis, ostioli nigris rostellatis, subacutis, prominentibus; ascis linearibus, 120-160 \approx 4, 8-sporis; paraphysibus filiformibus; sporidiis filiformibus, luteolis, nucleolatis, ascorum longitudinem æquantibus.

Hab. in caulibus decorticatis Staphyleæ trifoliæ, West Chester Amer. bor.

LINOSPORA Fuck. — *Sacc. Syll. II*, p. 354.

- *1. **Linospora insularis** Johans. *Swamp. fran. Island p. 171, t. XXIX*, 7245
fig. 13. — Peritheciis sparsis vel gregariis, parenchymate innatis, epidermidem infantibus, depresso-globosis vel elongatis, 330-450 μ . diam., rostro laterali, 200-370 μ . longo, epidermidem perforantibus, pseudostromate vix distincto; ascis cylindraccis, in stipitem acutum attenuatis, octosporis, 135-200 \approx 7-9; sporidiis parallele stipatis, filiformibus, 1-septatis, loculo superiore brevioribus et vix vel lenissime crassioribus, hyalinis, 100-120 \approx 3.

Hab. in foliis emortuis Salicis lanatæ, Eskifjörður Islandiæ orientalis.

- * 14. **Linospora ferruginea** Ell. et Mart. Amer. Nat. 1884, pag. 69. 7146

— Maculis pallidis, luteo-brunneis, obscure marginatis, vix tumidulis, $1\frac{1}{2}$ -2 mm. diam.; peritheciis nigris, subglobosis, 150 μ . d., uno in quaque macula immersis, epidermide nigrescente, ostiolo vix prominulo perforata, tectis; ascis cylindraceutis, 75-80 \approx 7, sessilibus vel brevissime pedicellatis, paraphysibus copiosis, linearibus, obvallatis, octosporis; sporidiis filiformibus, luteolis, obscure nucleatis, utrinque acutis, 35-45 \approx $1\frac{1}{2}$.

Hab. in foliis Andromedæ ferrugineæ, New Florida Americæ borealis.

- * 15. **Linospora Viburni** (Buckn.) Berl. et Vogl. *Hypospila Viburni* 7147

Bucknall. in Grevillea XII, pag. 44. — Epiphylla, sparsa, nigricans; pseudo-peritheciis convexis, subrugosis, folio innatis, prominentibus, astomis, suborbicularibus, cellulosis; ascis cylindraceutis, octosporis; sporidiis stipatis, filiformibus, hyalinis, 160 μ . longis.

Hab. in foliis emortuis Viburni lantanæ, Bristol Britanniæ (C. BUCKNALL).

- * 16. **Linospora? guaranítica** Speg. Fung. Guar. Pug. I, n. 231. — 7148

Maculis vix nubiloso-manifestis, fusciscentibus, indeterminatis; peritheciis hypophyllis, sparsis vel laxissime gregariis, subglobosis, 80-100 μ . diam., parenchymate immersis, ostiolo crassiusculo, mammillato, prominulo, epidermidem perforante exertoque donatis, atris, glabris, coriaceis, contextu indistincto, opaco, fuligineo-olivaceo; ascis cylindraceuto-clavulatis, apice rotundatis vel truncatis, crassiuscule tunicatis, basi vix attenuato-pedicellatis, 65-70 \approx 9, paraphysatis, 8-sporis; sporidiis fasciculatis, aciculari-elongatis, 55-65 \approx 2-2,5, leniter curvulis, utrinque acutiuseculis, melio attenuatis, dense guttulatis (an postremo pluriseptatis?), hyalinis.

Hab. ad folia viva vel languida Myrtaceæ speciei cujusdam in silvis subvirgineis prope Guarapi Bras.

DILOPHIA Sacc. Syll. II, pag. 357.

1. **Dilophia punctata** Winter in Hedwigia 1886, p. 101. — Peritheciis 7149

sparsis vel gregariis, sæpe dense stipatis, omnino immersis, subglobosis, basi applanatis, ostiolo brevi, cylindraceuto, parum prominulo, epidermide circa ostiolum nigrefacta semper tectis, atris, membranaceis, 300 μ . latis; ascis cylindraceuto-lanceolatis, utrinque, deorsum autem magis, attenuatis, sessilibus paraphysatis, vertice

obtusio incrassatoque, 8-sporis, 120-140 \approx 10-12; sporidiis inordinatis, conglobatis, elongato-fusoideis, parum curvatis, utrinque acutiusculus, hyalinis, transverse pluriseptatis, 78-88 \approx 5.

Hab. in petiolis putridis Musæ in insula St. Thomè Africae occidentalis.

CRYPTOSPORA Tul. — Sacc. Syll. II, p. 361.

- *3. **Cryptospora Caryæ** Peck 38 Rep. Stat. Mus. pag. 106, tab. 2, fig. 28-31. — Stromatibus sparsis, epidermide tectis, erumpentibus, linea atra circumscriptis vel sub epidermide crusta atra velatis; peritheciis 4-12 in quoque stromate globosis vel pressione angulosis; ostiolis stipatis, prominulis, subglobosis, æqualibus, nigris; ascis subclavatis, 100-125 \approx 12-15; sporidiis stipatis vel distichis, subcylindraceis in parte inferiore v. utrinque leniter acuminatis, granulosis, denique spurie 3-5-septatis, 40-60 \approx 6-7, hyalinis. 7150

Hab. in ramis Caryæ albæ, Knowersville Amer. bor.

- *5. **Cryptospora corylina** (Tul.) Fuck. — Sacc. Syll. II, p. 363. Huc ducenda est *Sphæria versatilis* Fries S. M. II, 364 et Sacc. Syll. II, p. 372. (Cfr. Cooke in Grevillea XIII, p. 370). — Sporidia sunt cylindracea, flexuosa, nucleata, hyalina, 50 μ . longa. 4144

- *5. **Cryptospora umbilicata** (Pers.) Berl. et Vogl. *Sphæria umbilicata* Pers. Syn. p. 45. Sacc. Syll. II, p. 487 et Cooke in Grevillea XIII, p. 39. — Sporidia ovoidea, hyalina, 6,2 \approx 5. 4210

- *6. **Cryptospora tomentella** (Peck.) Berl. et Vogl. *Valsa tomentella* Peck in Thirty-fifth. Rep. St. Mus. Bot. 1884, pag. 144. — Peritheciis quaterno-octonis, subcircinatis, in parte interiore corticis nidulantibus, nigris, basi tomento albo vestitis, disco lanceolato, albido vel brunneo, rima angusta, utrinque acuta erumpentibus, ostiolis atris, levibus punctulato; ascis oblongis, latis, subcylindraceis, vel fusiformibus, sessilibus, 50-80 μ . longis; sporulis cylindraceis, stipatis, curvulis, utrinque obtusis, sæpe multinucleatis, 50-67 \approx 4-5, hyalinis. 7151

Hab. in cortice Betulæ populifoliæ, New Albany Americae borealis.

- *8. **Cryptospora vasculosa** (Fr.) Cooke in Grevillea XIII, pag. 39, *Sphæria vasculosa* Fries S. M. II, 408, et Sacc. Syll. II, p. 486. — Sporidia cuneata, nucleata, 8-12. 4203

- *9. **Cryptospora Bambusæ** Speg. Fung. Guar. Pug. I, n. 232. — Stromatibus sub vel in cortice nidulantibus, lineari-elongatis, laxe gregariis, parallele longitudinalibus, primo epidermide tectis, dein hy- 7152

steriatim erumpentibus, non vel vix exertulis, extus griseis vel sordide fuscis, intus sordide albo-subceraceis, pauciperithecigeris; peritheciis stromate immersis, ex ovoideo-globosis, 150-300 μ . d., ostiolo minuto, conoideo, subcarbonaceo, stroma perforante ejusdemque superficiem vix attingente donatis, tenui membranaceis, olivaceis, contextu denso, minuto, inconspicuo, fusco; ascis clavatis, utrinque attenuatis, apice truncatis crassissimeque tunicatis perforatisque, basi breviter elongato-stipitatis, 95-100 \approx 12-14, paraphysibus quandoque nullis, quandoque densis, hyalinis, submucosis, simplicibus vel ramulosis, crassiusculis obvallatis, 8-sporis; sporidiis elongato-fusiformibus vel subacicularibus, utrinque acutatis ac leniter curvulis, 40-50 \approx 6-7, fasciculatis, 3-septatis, ad septa non constrictis, loculis crasse 1- vel 2-guttulatis, hyalinis.

Hab. ad culmos dejectos putrescentes *Bambusacæ* cujusdam in silva subvirginea Caa-guazù Bras.

Fam. 3. **Coryneliæ** Sacc. in litt.

Perithecia coriacea, atra, lageniformia, ostiolo elongato, apice perforato, dein late infundibuliformiter expanso.

Clavis analytica Generum

Corynelia. Sporidia spherica, continua, fusca (*Phaeosporæ*).

Tripospora. Sporidia stellata, 4-5-locularia, loculis radiantibus, atra (*Dictyosporæ*).

CORYNELIA Fries Obs. myc. II, p. 343 et S. M. II, p. 535, Winter Ueb. Gatt. Coryn. p. 123 (Etym. a *coryne* clava). — Perithecia lageniformia, coriacea, atra in collum, apice infundibuliformiter expansum, desinentia; in acervulos rotundatos, plerumque sparsos disposita, stromate pulvinate, erumpente insidentia; asci ovati, longe pedicellati, 8-spori; sporidia globosa, fusco-atra, levia, continua.

1. **Corynelia uberata** Fries Obs. myc. II, pag. 343 et Syst. myc. II, 7153 p. 535. Winter Ueb. Gatt. Coryn. p. 123, fig. 4-8, *Mucor clavatus* Lin. Spec. plant. Suppl. p. 453, *Sphaeria turbinata* Pers. Syn. p. 95. — Peritheciis lageniformibus, coriaceis, atris, collo elongato, cylindrico, poro pertuso, demum apice dilatato præditis, acervulos rotundatos, plerumque sparsos, rarius subgregarios, 1-3 mm. latos formantibus, basi stromate pulvinate, erumpente insidentibus; ascis ovatis, longissime pedicellatis, 8-sporis, 36-44 \approx 20-26, (parte

spor.); sporidiis conglobatis, globosis, perparum angulatis, fusco-atris, levibus, continuis, 10-11 μ . diam.; spermatiis oblongo-fusiformibus, continuis, hyalinis, 6-7 \approx 2.

Hab. ad Podocarpi Thunbergii folia, ramulos fructusque in Suecia, Germania, Britannia.

TRIOSPORA Sacc. in litt. (Etym. a *tripos* et *spora*). — Perithecia lageniformia, coriacea, atra, in collum apice infundibuliformiter expansum desinentia, plerumque in series disposita. Asci ampli, longe pedicellati, octospori. Sporidia stellata, 4-5-locularia, oculis radiantibus, atra.

1. **Triospora Cookei** Sacc. in litt. *Corynelia tripos* Cooke in Grevillea VIII, pag. 34, Winter Ueber die Gatt. *Corynelia* pag. 122, fig. 1-3. — Peritheciis lageniformibus, coriaceis atris, nitidis, in collum elongatum, cylindricum, poro pertusum, demum apice dilatatum desinentibus, rarius in acervulos rotundatos, plerumque imo series elongatas, usque 20 mm. longas, lineares formantibus; ascis amplis, ovatis, sursum obtusis, longe pedicellatis, 50-70 \approx 26-35 (p. sp.) octosporis; sporidiis 4-rarissime 5-radiatis, processibus conicis, basibus coalitis constantibus, 21-23 μ . diam., fuscis; spermatiis 4,5 \approx 1,5-2,

Hab. ad Podocarpi elongatæ folia viva in Germania et Britannia.

Fam. 4. Hypocreaceæ DE NOT.

Sect. 1. Hyalosporæ Sacc.

NECTRIELLA Sacc. Syll. II, p. 448.

- * 17. **Nectriella vulpina** (Cooke) Berl. et Vogl. *Peziza vulpina* Cooke 7153
Dialonectria vulpina Cooke in Grev. XII, p. 83. — Sparsa, aurantio-fusca; peritheciis globosis, demum depressis et cupuliformibus, levibus, glabris, vix papillatis 0,3-5 mm.; ascis clavatis; sporidiis hyalinis, continuis, 8 \approx 2,5.

Hab. in frustulis ligneis, New Jersey Amer. bor. (J. B. ELLIS) 7156

- * 22. **Nectriella Helenæ** Sacc. et Roum. in Rev. Myc. 1883, tab. 41, fig. 20. — Peritheciis inter fibras caulis gregariis, superficialibus, globosis vel conoideis dein subcollabascensibus, pallide roseis, hyphulis albis cinctis, $\frac{1}{4}$ mm. diam.; ascis cylindricis, paraphysatis, 90-100 \approx 6-7, octosporis, breve stipitatis; sporidiis oblique 1-sti-

chis, ellipsoideo-oblongis, 10-12 \approx 5-6, utrinque obtusiusculis, hyalinis.

Hab. in caule putri Brassicæ in Gallia. — *Nectriellæ furellæ* similis videtur, sed sporidia in nostra sunt duplo majora.

ELEUTHEROMYCES Fuck. — Sacc. Syll. II, p. 455.

1. **Eleutheromyces longisporus** Phill. et Plowr. in Grevillea XIII, p. 78. 7157

— Peritheciis gregariis, superficialibus, elongatis, pallide luteis, 450-500 μ . latis, 200 μ . longis, basi inflatis; ostiolis acute-terminatis; ascis clavato-elongatis vel subfusiformibus, 130-150 \approx 20-25, plerumque 4-sporis; sporidiis hyalinis, elongato-fusoideis, acutis, uniseptatis, utrinque ciliatis, 50-60 \approx 5-8.

Hab. in reliquiis Myxogastri, Holt House Woods, King's Lynn Britannicæ. — «An novum genus?».

CLEISTOSOMA Hark. in Jour. of Myc. 1885, I, pag. 30 (Etym. *cleistos* clausus et *soma* corpus). — Perithecia orbicularia, membranacea. Asci ex filamentis ramosis orientes, globosi, evanescentes. Sporidia hemisphærica, echinulata.

1. **Cleistosoma purpureum** Hark. in Journ. of Myc. 1885, p. 30. — 7158

Peritheciis purpureo-nigris, tenuissimis in sporodochiis *Thecosporæ bifidæ* orientibus et ea purpuraceo colorantibus, mox deliscentibus; ascis globulosis, hyalinis, 8-sporis, 9-12 μ . diam.; sporidiis purpureis, hemisphæricis, longe echinulatis, 3-4 μ . latis.

Hab. in foliis putridis Eucalypti Globuli, S. Francisco Californiæ. — Status ascophorus verisimiliter *Thecosporæ bifidæ*.

BYSSONECTRIA Karst. — Sacc. Syll. II, p. 456.

*2. **Byssonectria rosella** Cooke et Hark. in Grevillea XII, p. 101. 7159

— Tenuis, effusa, rosella; hyphis repentibus, intertextis; peritheciis minutis, inspersis, obscurioribus (incompletis); comidiis fusarioides lunatis, utrinque acutis, quinquesepatis, plerumque nodulosis hyalinis immixtis, 40 \approx 5-6.

Hab. in herbis emortuis in California (HARKNESS).

Sect. 2. Phæosporæ Sacc.

SPHÆRODERMA Fuck. — Sacc. Syll. II, p. 459.

*2. **Sphæroderma nectrioides** March. Champ. Copr. pag. 25, tab. I, 7160 f. 9-11. — Peritheciis globoso-ovoideis, contextu nectriaceo, molli,

subdiaphanis, aurantiis, sparsa v. subaggregatis, ostiolo brevi, obtuso, 200 μ . diam. metientibus; ascis numerosis, breviter stipitatis, clavatis, apice late rotundatis, octosporis, 75-80 \approx 25-30 μ . paraphysatis; sporidiis primitus hyalinis, intus granulosis, denique atro-olivaceis, limoniformibus, utrinque truncatulis, 18-24 \approx 9-12.

Hab. in stromate Xylariæ Tulasnei, Boeykr prope Hasselt in Belgio. — A *Sphaer. episphaerio* ostioli fabrica, ascorum magnitudine et ascis persistentibus differt, a *Sph. aculeato* vero peritheciis glabris, sporidiis majoribus distinguendum.

MELANOSPORA Corda. — Sacc. Syll. II, p. 461.

- *3. **Melanospora ornata** Zukal Ueb. ein neue Pilze Myx. Bakt. p. 10, 7161
tab. XV, fig. 2. — Peritheciis sparsis, superficialibus, globosis, apice ostiolo, setis luteis cincto, præditis, 180-200 μ . diam.; ascis crasse saccatis, octosporis, mox evanidis, sessilibus 40 \approx 30; sporidiis, ellipticis, utrinque obtuse acuminatis, 14-15 \approx 10-11, brunneis, episporio crasso, reticulato præditis.

Hab. in Polyporo zonato prope Wien Austriæ. — «*M. lagenariæ* propinqua, a qua ostiolo setoso, sporidiis reticulatis distinguitur».

- *9. **Melanospora Solani** Zukal Ueb. ein. neue Pilze, Myc. Bakt. 10. — 7162
Peritheciis gregariis, superficialibus, flaveolis, 160-200 μ . altis, basi hyphis parcis, radiantibus cinctis; ostiolo in collum cylindricum, perithecio duplo longius attenuato, 30-35 μ . lato, sæpius spirali-ter incurvato, apice non ciliatis, sed undique vix lanosulis; ascis octosporis, late clavatis, breviter stipitatis, mox evanidis, 30 \approx 25; sporidiis 2-3-stichis, breviter cylindræis vel fere cuboideis, brunneis, exosporio levi donatis, 5-6 \approx 3-4.

Hab. in tuberibus Solani tuberosi ad colenda *Chaetomia* adhibitis Wien Austriæ.

- *10. **Melanospora sphaerodermoides** Grove New Not. Fungi pag. 4, 7163
n. 60, tab. 256, fig. 4. — Peritheciis liberis, sparsis, fere levibus, pallide luteo-fuscis, dein fuscis, semipellucidis, rotundatis vel ovatis, in rostrum breve, pilis longis, subhyalinis, continuis, apice fimbriatum productis; ascis clavatis, stipitatis, maxime diffluentibus, 8-sporis, 80-90 \approx 30; sporidiis superne visis late fusoideis, e latere oblique ovoideo-oblongis, curvatis, gutta magna instructis, hyalinis, dein olivaceis, subopacis, 30-34 \approx 15-17.

Hab. ad culmos Heraclei apud Bradnok's Marsh (Warwckshire) Brit. — Peritheci contextus e cellulis magnis hexagonis

constat. Huic socium *Sphæronema*. *S. vitreo* subsimile, sporulis oblongis, hyalinis, $6-8 \approx 2\frac{1}{2}$. Quoad perithecium, species hæc *M. Zobelii*; quoad locum natalem, ascos, sporidia *Sphærodermati theleboloidi* magis appropinquat.

- * 11. **Melanospora stysanophora** Matt. in Giorn. Bot. It. 1886, p. 121, 7164 tab. VIII et IX, fig. 1-20. — Peritheciis rufo-brunneis, sphæroidis, $\frac{1}{4}$ mm. diam., in collum breve, apice penicillatum, pertusum desinentibus; ascis ovoideo-elongatis, demum dilabentibus, octosporis; sporidiis ovoideis, utrinque breve acuminatis, $9 \approx 6$, flaveolis.

Hab. in epispermate *Castaneæ vescæ*, Torino It. bor., socio *Echinobotryo atro*. — Status conidicus *Stysanus Stemonites*, deutericonidicus *Acladii* forma.

- * 12. **Melanospora Gibelliana** Matt. in Giorn. Bot. It. 1886, p. 141, t. IX, 7165 fig. 21-39. — Peritheciis ovoideis, striguloso-pubescentibus, subiculo tomentoso insidentibus, flaveolis rostratis, rostro sursum penicillato; ascis ellipsoideis, breviter noduloso-pedicellatis, octosporis; sporidiis ovoideis, utrinque acuminatis, $24-25 \approx 15$, fuliginis.

Hab. in epispermate *Castaneæ vescæ*, Torino Ital. bor.

Sect. 3. Hyalodidymæ Sacc.

HYPOMYCES Fr. — Sacc. Syll. II, p. 466.

- * 1. **Hypomyces spadiceus** Fries in Herb. Berk. Cooke in Grev. XII, 7166 p. 80. — Tenuis, effusus, spadiceus; peritheciis parvulis, $150-200 \mu$. diam., congestis, semiimmersis, ostiolo papillato, concolori; ascis cylindraceutis; sporidiis arcte lanceolatis, uniseptatis, hyalinis, $16-20 \approx 3-3.5$.

Hab. in Agaricis (?) in Suecia (E. FRIES).

- * 23. **Hypomyces flavescens** (Schw.) Cooke in Grevillea XII, p. 80. 7167 — Peritheciis gregariis, distinctis, globoso-ovatis, papillatis, albidis, villo secedente tectis, subiculo lacteo, latissimo, pubescente insidentibus; ascis cylindraceutis; sporidiis arcte ellipticis, hyalinis, immaturis visis.

Hab. in hymenio resupinato Polypori, Bethlehem in America boreali.

- * 24. **Hypomyces apiosporus** Cooke in Grev. XII, p. 80. — Effusus, 7168 pallidus, tenuis; peritheciis semiimmersis, leniter papillatis (in sicco melleis), ostiolis obscurioribus; ascis cylindraceutis, octosporis; sporidiis lanceolatis, supra apiculatis, infra rotundatis, totis asperulis, continuis (apiculo excepto), flavidis, $18 \approx 6.5$.

- Hab.* in *Clavaria pistillari* (?) New York Amer. bor.
- *30. **Hypomyces ater** Fr. Syst. myc. III, Cooke Grev. XII, pag. 80. 7100
— Irregulariter effusus, sæpe totum fungum occupans, nigrum; peritheciis semiimmersis, ostiolo conico, concolore præditis; ascis cylindricis; sporidiis lanceolatis, utrinque acutis atque sæpe apiculatis, continuis, hyalinis, 30-35 \approx 5-6.
Hab. in Agarico non determinato, Carlisle Britannicæ (CARLYLE).
- *31. **Hypomyces xylophilus** Peck in Torr. Bot. Club. 1884, p. 28. — 7170
Subiculo effuso, albedo; peritheciis numerosis, stipatis, parvis, subflavidis, ostiolo obtuso; ascis cylindræcis, 85-110 \approx 6-7; sporidiis simplicibus, monostichis, subfusiformibus, 15-17 \approx 5-6.
Hab. in ligno putri, Ohio Amer. bor.
33. **Hypomyces tomentosus** Fr. Sacc. Syll. II, p. 475, Cooke in Grev. 4643
XII, p. 80. — Asci cylindræci; sporidia lanceolata, utrinque mucronulata, uniseptata, hyalina, 14-16 \approx 3.
35. **Hypomyces Tegillum** Berk. et Curt. Sacc. Syll. II, p. 475, Cooke 4645
in Grev. XII, p. 80. — Asci cylindræci; sporidia arcte lanceolata, uniseptata, hyalina, 14-16 \approx 3.
- *40. **Hypomyces? pannosus** (Schw.) Cooke in Grevillea XII, p. 80, 4162
Sph. pannosus Schw. Car. n. 172. — Sacc. Syll. II, pag. 376.
— Late effusus, albidus, pannosus, tenuis, margine fimbriato-hyssino; perithecia semiimmersa, pallida, ostioliis punctiformibus, fuscis; ascis cylindræci; sporidia immatura.
- NECTRIA** Er. — Sacc. Syll. II, p. 479.
- *1. **Nectria Balansæ** Speg. Fung. Guar. Pug. I, n. 233. — Acervu- 7171
lis primo tectis, dein erumpentibus, epidermide laciniatim disrupta cinctis, mediocribus, 1-2 mm. diam., e convexulo-applanatis, tenuibus, 0,5 mm. crassis, rubro-croceis vel coccineo-aurantiis, pulvere vel squamulis concoloribus vel vix obscurioribus adspersis, peritheciis minusculis, vix apice liberis compositis, e stromate per corticem lignumque serpente pallide croceo exsurgentibus; in pulvinulis stromatis immersis non vel vix prominulis, e globoso ovoideis, 200-250 μ . diam., tenuibus membranaceis, contextu indistincto, fulvello, ostiolo vix mammillato-prominulo, subnigricante; ascis cylindræceo-clavatis, 110-120 \approx 15-16, non vel vix pedicellatis, paraphysatis, octosporis; sporidiis hyalinis, alterne distichis ellipticis vel elliptico-elongatis, 22-30 \approx 8-10, non vel vix inæquilateralibus, utrinque plus minusve acute rotundatis, medio 1-septa-

tis, non constrictis, loculis primo granulosis, dein grosse 1-guttulatis, episporio longitudinaliter tenuissime densiusculeque striato.

Hab. ad corticem arborum dejectarum putrescentium in silvis prope Paraguari Bras.

- *2. **Nectria atrofusca** (Schw.) Ell. et Ev. in Journ. of Myc. 1885, 4227
pag. 140. *Sphaeria atrofusca* Schw. Syn. N. An. n. 1429. Sacc. Syll. II, p. 391. — Perithecia in stroma tuberculiforme, 1½ mm. latum, lignum facile relinquens dense stipata, 24-40, in quoque stromate, minuta, ⅙ mm. diam., depressa, conica, nigra, ostiolo subconico, expolito, sursum radiato-sulcato excepto indeque rugosa; ascis circiter 75 ≈ 16, oblongo-cylindraceutis; sporidia hyalina vel subhyalina, maturitate dilute luteola, oblongo-ellipsoidea vel sæpe una extremitate acutiora, 1-septata, vix constricta, 10-12 ≈ 4,5-5, utrinque obtusa.

- *3. **Nectria Rousseauana** Sacc. et Roum. in Rev. Myc. 1883, t. 41, 7172
fig. 19. — Peritheciis in cæspitulos discoideos, 2 mm. latos collectis, stromate flavido suffultis, globoso-depressis, ⅓-½ mm. diam., levibus, rubescentibus, dein fusco-lateritiis, collabascendo umbilicato-cupulatis, ostiolo brevi, obscuriore; ascis... jam resorptis; sporidiis tereti-fusoideis, utrinque obtusiusculis, medio 1-septatis, vix constrictis, 20-24 ≈ 5,5-6, hyalinis.

Hab. in caule putri Brassicæ oleracæ in Belgio. — A *N. punicea*, cui affinis, sporidiis longioribus matriceque mox dignoscitur.

- *10. **Nectria hypocreoides** Berk. et Cooke in Grevillea XII, p. 81. 7173
— Cæspitosa, erumpens, pallida; peritheciis subglobosis, mox confluentibus, 25 mm. diam. in stroma tuberculoide densissime congestis, furfure flavo-pallescente conspersis; ostiolis nudis, obscurioribus; ascis cylindraceutis, octosporis; sporidiis ellipticis, hyalinis, endochromate bipartito, nec vere uniseptatis, 12 ≈ 4.

Hab. in corticibus, Bombay in Africa (H. J. CARTER).

- *11. **Nectria collabens** Berk. et Cooke in Grev. XII, p. 81. — Cæspitosa, erumpens, mellina; peritheciis in stroma tuberculoide, congestis, subglobosis dein collabascensibus difformibusque, glabris, tenuissimis, 2 mm. diam.; ascis cylindraceutis, octosporis; sporidiis late ellipticis, utrinque attenuatis, loculis subconicis, uniseptatis, hyalinis, magnitudine valde variabilibus, 12-14, rarius 18 ≈ 6.

Hab. in corticibus, Bombay in Africa (H. J. CARTER).

- *12. **Nectria alutacea** Berk. et Cooke in Grevillea XII, pag. 81. — 7175
Cæspitosa, erumpens, alutacea v. incarnata; peritheciis in stroma el-

lipsoideum vel elongatum congestis, subglobosis, papillatis, levibus, glabris, 0,25 mm. diam., translucetibus; ascis clavatis, octosporis; sporidiis biseriatis, ellipticis, uniseptatis, hyalinis, 10-12 \approx 3.

Hab. in corticibus, Neilgherries in India (E. S. BERKELEY).

* 15. **Nectria paraguayensis** Speg. Fung. Guar. Pug. I, n. 238. — 7176

Acervulis hemisphærico-pulvinatis, superne depressulis, inferne leniter coarctatis, 1-2 mm. diam. 0,5 mm. crass., compactis, sordide lateritiis, obsolete minuteque fusco-punctulatis, vix granulosis, glabris, intus gilvis; peritheciis elliptico-obovatis, in acervulorum stromate peripherice immersis, vix prominulis, disco libero applanatulo, medio ostiolo minute papillulato, fusco ornatis, 150 μ . diam., 200 μ . altis, carnosulis, contextu subindistincto, vivide fulvo-melleo, ascis cylindræco-subclavatis, mox diffluentibus, octosporis; sporidiis ellipticis vel elliptico-elongatis, 14-18 \approx 5-7, primo 2-4-guttatis dein medio 1-septatis, constrictis, hyalinis, episporio longitudinaliter striato, loculis 1-2-guttulatis.

Hab. ad corticem ramorum putrescentium in dumetis, Cerro Hu Bras. — Species primo obtutu pro *N. vulgari* facillime sumenda sed satis ab illa abhorrens.

* 16. **Nectria guarapiensis** Speg. Fungi Guar. Pug. I, n. 235. — 7177

Stromatibus cortice innatis, latissime ac plus minusve profunde serpentibus, sordide e roseo lateritiis; peritheciis in stromatis vel matricis mutatae superficie densissime gregariis, acervulos plus minusve pulvinatos, 1-3 mm. diam., 0,5 mm. crass., rugoso-rimulosos, discretos vel confluentes vel plagulas effusas, scruposo-undulatas, 5-25 mm. diam., efficientibus, udis, globosis vel globoso-depressis, 300-350 μ . diam., pallide fulvis, glabris, levibus, siccis cupulato-collapsis, rugulosis, membranaceo-carnosulis, contextu percrasse parenchymatico-celluloso, cellulis 15 μ . diam., fulvo-lateritio, ostiolo minute papillato, pallescente, subfimbriatulo, prosenchymatico-subhyalino donatis; ascis clavulatis, antice truncato-rotundatis, postice breviter crasseque attenuato-stipitatis, 55-65 \approx 10-14, aparyphysatis, octosporis; sporidiis distichis vel submonostichis, ellipticis vel obovatis, utrinque late rotundatis, 14 \approx 7, medio 1-septatis, non vel vix constrictis, hyalinis, levibus, loculis 1-guttulatis vel granulosis, subæqualibus.

Hab. ad truncorum cortices putrescentes in silvis prope Guarapi Bras.

* 26. **Nectria infusaria** Cooke et Hark. in Grevillea XII, p. 101. — 7178

Cæspitosa, erumpens, pallide rubra; peritheciis paucis, ovalibus,

ceraceo-mollibus subconfluentibus, levibus, glabris, 5-10 in stromate; ascis cylindræis octosporis; sporidiis uniseriatis ellipticis, obtusis, uniseptatis, nec constrictis, hyalinis demum pallidis, $10 \approx 4,5$. — Status conidicus: **Fusarium Acaciæ**: conidiis plerumque consociatis vel in pustulis præcedentibus, fusarioideis curvulis, utrinque acutis, triseptatis, gracilibus, hyalinis, 30-40 $\approx 2,5$; stromate pulvinato, rubro-palléscente.

Hab. in ramis Acaciæ, in California.

- *27. **Nectria ferruginea** Cooke in Grevillea XIII, p. 8. — Erumpens, 7179
cæspitosa; peritheciis ceraceis, subglobosis, atro-fuscis, ob pressionem difformibus, primo pulvere ferrugineo tectis, demum nudis, ostiolo pertuso; ascis clavatis, octosporis; sporidiis fusiformibus, uniseptatis, hyalinis, 25 ≈ 6 .

Hab. in foliis vivis, bracteis etc. Stypheliæ (verisimiliter S. viridifloræ), Omeo Australiæ.

- *44. **Nectria Epichloe** Speg. Fungi Guar. Pug. I, n. 240. — Peritheciis 7180
matrice sæpius infuscata (macula effusa, brunnea, non determinata) insidentibus, hypothallo furfuraceo-pruinuloso, candido donatis, densissime subcrustaceo-aggregatis, pallide aurantiacis vel fulvo-melleis, siccis subcupulato-collapsis, ruga transversa prominula percursis, udis globosis, 80-120 μ . d., glabris, levibus, carnosis, contextu minutissime ac indistincte parenchymatico-celluloso, fulvello; ascis fusoidæo vel cylindræo-clavatis, apice truncatis crassiusculeque tunicatis, deorsum modice attenuato-stipitatis, 50-55 $\approx 7-8$, paraphysibus paucis, filiformibus simplicibus obvallatis, octosporis; sporidiis ellipticis v. elliptico-ovoideis, utrinque acute rotundatis, 9-11 $\approx 3-4$, primo continuis, dein medio 1-septatis, non constrictis, loculis non v. guttulatis, hyalinis.

Hab. ad folia viva Andropogonis speciei cujusdam in pratis prope Guarapí Bras. — Species pulcherrima distinctissima, habitu *Epichloem typhinam* perfecte æmulans, characteribus fructificationis tamen mox distinguenda, facile in novo genere constituenda.

- *45. **Nectria xanthostigma** Berk. et Cooke in Grevillea XII, p. 83. 7181
— Sparsa, superficialis, flavida; peritheciis levibus, glabris subglobosis, 2 mm. diam., leniter papillatis; ascis clavatis, octosporis; sporidiis biseriatis, arcte ellipticis, utrinque rotundatis, uniseptatis, hyalinis, 10 ≈ 3 .

Hab. in caulibus herbaceis, Neilgherries in India (E. S. BERKELEY).

- * 47. **Nectria Umbellulariæ** Plow. et Harkn. New Calif. Fungi p. 9. 7182
 — Peritheciis superficialibus, sparsis, 200-230 μ . diam., globosis, subhyalinis v. roseis, hyphis mycelicis parvis externe cinctis; ostioli obtusis; ascis clavatis, 50 \approx 10-15; sporidiis hyalinis, ovoideis, uniseptatis, 10-12 \approx 5-8.
Hab. in *Umbellularia californica* in California.
- * 48. **Nectria depallens** Cooke et Harkn. in *Grevillea* XIII, p. 82. — 7183
 Sparsa gregariave, superficialis, testaceo-rubra, depallens; peritheciis subglobosis, glabris, nudis, opacis, $\frac{1}{4}$ - $\frac{1}{5}$ mm. d.; ascis clavatis, octosporis; sporidiis lanceolatis, utrinque subacutis, uniseptatis, nec constrictis, hyalinis, 22-24 \approx 4-5.
Hab. in caulibus *Lupini* in California (HARKNESS).
- * 51. **Nectria Galii** Plowr. et Hark. New Californ. Fungi pag. 9. — 7184
 Peritheciis sparsis, immersis, demum erumpentibus, obtusis, pallide rubris; ascis cylindræis, delicatis, 60 \approx 5-8, octosporis; sporidiis monostichis, pallide flavis, oblongo-ovoides, utrinque acutis, 10 \approx 5.
Hab. in *Galio trifolio* in California. — Sporidia demum uniseptata?
- * 52. **Nectria conigena** Peck in Torr. Bot. Club. — Minuta, membranacea, levis, aurantio-lutea, siccitate collapsa; peritheciis basi setis radiantibus, parvis præditis, ostiolo papilliformi, minuto; ascis circiter 50 \approx 7; sporidiis monostichis vel sursum subdistichis, acute ellipsoideis, binucleatis, demum 1-septatis (?), 7-8 \approx 3-3,5. 7185
Hab. in conis delapsis *Magnoliæ glaucæ*, Newfield Amer. bor. — Differt a *N. vulpina* peritheciis minoribus pallidioribusque et sporidiis acutioribus nec non matrice.
- * 56. **Nectria Dorcas** (B. et Br.) Cooke in Grev. XII, p. 82, *Peziza* 7186
Dorcas B. et Br. Ceylon Fungi 944. — Superficialis, sparsa, globosa, demum collapsa et cupuliformis; peritheciis extus cervinotomentosis, ostiolo fusco; sporidiis subellipticis, medio constrictis, biseriatis, uniseptatis, hyalinis, 12 \approx 4,5.
Hab. in *Monocotyledoneis* plantis in insula Ceylon.
- * 60. **Nectria silacea** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. Ill. 7187
 fung. Slav. n. 925. — Peritheciis gregariis, discretis, superficialibus, globoso-depressis, 300-330 μ . diam., ostiolo vix manifesto, ochraceo-argillaceis, levibus, nitidulis, denique collabascentibus; ascis tereti-clavulatis, breve stipitatis, aparaphysatis, octosporis; sporidiis distichis v. oblique monostichis, ellipsoideis v. breve oblongis, 10-14 \approx 3-4, 1-septatis, vix constrictis, biguttatis, hyalinis.

Hab. in ligno corrupto Carpini Betuli prope Vinkovce Slavoniæ. — Species bene distincta.

- * 68. **Nectria Passeriniana** Cooke in Grev. XII, p. 81, *Nectria viticola* Pass. in Pirotta Fungi Vit. pag. 45. — Subcæspitosa, erumpens; peritheciis subglobosis, carneis, in stroma pulvinatum con-natis; ascis cylindræis, octosporis; sporidiis ellipticis, uniseptatis, hyalinis, 20 \approx 9. 7188

Hab. in sarmentis Vitis, Parma Ital. bor.

- * 69. **Nectria lætifulva** Berk. et Cooke in Grevillea XII, p. 12. — 7189
Gregaria sparsave, lætifulva; peritheciis superficialibus, globosis, papillatis, glabris, levibus, 0,2-0,25 mm. diam.; ascis clavatis, octosporis; sporidiis biseriatis, breviter lanceolatis, uniseptatis, hyalinis, 14 \approx 4.

Hab. in corticibus, Neilgherries in India (E. S. BERKELEY).

- * 71. **Nectria Coccorum** Speg. Fungi Guar. Pug. I, n. 234. — Peri- 7190
theciis globosis, minutis, 180-200 μ . diam., levibus, glabris, aurantiacis vel aurantio-roseis, solitariis vel laxè 2-5-aggregatis, stromate tenui vix manifesto, matricem obtegente, concolore semi-immersis, ostiolo minuto, vix fuscidulo et papillulato donatis, carnosulo-submembranaceis, contextu dense parenchymatico flavescenti-aurantio, ad ostiolum fuscescente præditis; ascis cylindræo-clavatis, aparaphysatis, octosporis, mox diffluentibus; sporidiis cylindræo-fusoideis vel elliptico-elongatis, utrinque obtuse acutatis, 22-25 \approx 5, medio uniseptatis, non v. leniter constrictis; loculis crasse 1-guttulatis, hyalinis. An postremo 3-septatis?

Hab. ad Cocos emortuos putrescentes in foliis dejectis putrescentibus laurineæ cujusdam in silvis montanis de Peribebuy Bras.

79. **Nectria episphæria** Fries Sacc. Syll. II, p. 497. *Var. verruculosa* Cooke in Grev. XII, pag. 82. — Peritheciis obtuse verruculosis, vix collascentibus; ascis sporidiisque ut in typo. 4710

Hab. in peritheciis Cucurbitariæ? confinis, Java Australiæ.

- * 81. **Nectria ostiolorum** Berk. et Cooke in Grevillea XIII, p. 8. — 7191
Parasitica, sparsa, ochroleuca; peritheciis globosis, minutis, 100-200 μ . diam. leniter furfuræis, superficialibus, ostiolo pertuso; ascis cylindræo-clavatis, octosporis; sporidiis ellipticis, hyalinis, uniseptatis, 12 \approx 5.

Hab. in Xylariæ rhopaloidis stipitibus in Cuba.

- * 91. **Nectria filicina** Cooke et Hark. in Grevillea XII, pag. 101. — 7192
Sparsa vel gregaria, aurantia, intra squamulas filicis nidulans; pe-

ritheciis obovatis, levibus, glabris subnitidis, vix papillatis; ascis cylindraceutis, octosporis; sporidiis elliptico-cylindricis, utrinque obtusis, hyalinis, $8 \approx 2,5$.

Hab. in stipite filicino in California.

- * 96. **Nectria parvispora** Winter in Hedwigia 1886, pag. 33. — Peritheciis gregariis seu dense sparsis, superficialibus, subiculo tenuissimo, longe lateque effuso, aureo-fulvo, insidentibus, e basi globosa in ostiolum conoideum attenuatis, haud collabascens, aureis, demum obscurioribus, fulvescentibus, glabris, membranaceo-subcarnosis, $230-240 \mu$. altis, 200μ . crassis; ascis cylindraceutis, deorsum stipitiformiter attenuatis, 8-sporis; sporidiis monostichis, oblongo-subcylindraceutis vel subclavatis, utrinque rotundatis, medio uniseptatis, non vel rarum constrictis, cellula inferiori parum angustiori, hyalinis, levibus, $8,5-9,5 \approx 2,5-3$. 7193

Hab. in hymenio Sterei subpileati, St. Thomè Africæ occidentalis.

99. **Nectria chrysocoma** (Cooke et Harkn.) Berl. et Vogl. *Byssonectria chrysocoma* Cooke et Harkn. in Grevillea XII, pag. 101. — Lignicola; stroma fibroso-byssoidium, aureum, effusum; peritheciis minutis, gregariis $0,1-0,5$ mm. diam., obovatis, tenuibus, flavido-fuscis, stromate semiimmersis; ascis clavatis, octosporis; sporidiis biseriatis arcte ellipticis, uniseptatis, hyalinis, $10 \approx 2-2,5$. 7194

Hab. in ligno Eucalypti in California.

- * 105. **Nectria asperula** Winter in Hedwigia 1886, p. 93. — Peritheciis dense sparsis seu gregariis, superficialibus, e basi globosa conoideis, in ostiolum conicum vel breve cylindricum, dilutius, fere hyalinum, attenuatis, mollibus rugosiusculis, carnosis, helvolis, $260-290 \mu$. altis (cum ostiolo), 200μ . diam.; ascis cylindraceutis, deorsum parum attenuatis, 8-sporis, $80-90 \approx 5-7$; sporidiis monostichis, oblongo-cylindraceutis, parum inæquilateralibus, utrinque rotundatis, deorsum parum attenuatis, medio uniseptatis sed non constrictis, dense verrucosis, hyalinis, $14-16 \approx 4,5$. 7195

Hab. in hymenio Sterei subpileati, St. Thomè Afr. occ.

- * 114. **Nectria Mercurialis** Boud. in Rev. Myc. 1885, p. 226, tab. LVI, fig. 2. — Peritheciis sparsis, $200-250 \mu$. latis, ochraceis vel ochraceo-aurantiacis, erumpentibus aut liberis, ovatis vel ovato-conicis, supra parce et minute pilosellis, pilis concoloribus, brevibus, ad basim crassioribus, septatis, $60-70 \approx 5-7$; paraphysibus tenuibus, septatis, intus granulosis, ascos superantibus; ascis cylindrico-fusiformibus, clavatis, octosporis, $70-80 \approx 10$; sporidiis oblongo-fu- 7196

soideis, rectis aut subcurvatis, quadrinucleatis, ad medium septatis, non aut vix constrictis, 16-18 \approx 4-5.

Hab. ad caules exsiccatos Mercurialis perennis in umbrosis, Montmorency Galliae.

- * 116. **Nectria poliosa** E. et E. in Journ. of Myc. 1886, p. 39. — 7197
Peritheciis sparsis, membranaceis, aurantio-rubris, globoso-ovatis, $\frac{1}{6}$ mm. diam., setis rectis, hyalinis, radiantibus, septatis, glandularibus, circiter diametrum perithecii longitudine æquantibus, ostiolo papilliformi excepto tectis; ascis sessilibus oblongo-cylindraceis, circiter 75 \approx 12; sporidiis distichis, oblongis vel oblongo-subfusoides, subinæquilateralibus, hyalinis, uniseptatis, septo leniter constrictis, irregulariter nucleatis, 18-22 \approx 7-8; utrinque rotundatis vel subacutis.

Hab. in stromatibus *Diatrypes platystomæ*, Florida Amer. bor. — Setæ primo sunt 7 μ . latæ, apice obtusæ, incrassatæque, demum verum sursum elongantur et attenuantur.

- * 117. **Nectria vagabunda** Speg. Fungi Guar. Pug. I, n. 239. — 7198
Peritheciis epiphyllis, sparsis, solitariis vel 2-5-aggregatis, hypothallo candido furfuraceo- vel velutino-tomentosulo insidentibus basi que vestitis, siccis cupulato-collapsis, udis globulosis, 150-350 μ . diam., ex albo aurantiacis, levibus, glabris vel puberulis tenuissime ceraceo-membranaceis, contextu indistincto; ascis clavatis, antice rotundatis, postice breviter crasseque stipitatis, 50-55 \approx 15, paraphysibus densis, filiformibus, simplicibus, obvallatis, octosporis; sporidiis distichis vel inordinate polystichis, ellipticis, utrinque obtusiusculis, 12 \approx 4,5, medio 1-septatis, constrictis, hyalinis.

Hab. ad folia viva *Bambusaceæ* cujusdam in Pastoreo de Caaguazû Bras. — Species pulchella, mox dignoscenda ac novi generis (*Lasionectria*) facillime typum sistens. — Jodii ope nulla.

- * 119. **Nectria aureola** Winter in Hedwigia 1885, pag. 261. — 7199
Peritheciis gregariis, brevissime globoso-conoideis, undique, præcipue autem in parte superiori pilis brevibus, rigidis, simplicibus, hyalinis, apice rotundatis obsitis, pallide aureolis, diaphanis; ascis oblongo-fusiformibus, stipite brevissimo crassoque præditis, 8-sporis, 47-53 \approx 7; sporidiis fusoides, utrinque parum attenuatis, anguste rotundatis, medio uniseptatis, non constrictis, hyalinis, 14 \approx 2,5.

Hab. in Mycelio *Meliolæ* parasitans.....

- * 121. **Nectria Eucalypti** Cooke et Harkn. in Grev. XII, pag. 82. — 7200
Sparsa, superficialis, ochracea; peritheciis globosis, demum subde-

pressis, 2 mm. diam., primum pilis papillosis, sparsis hyalinis obsitis, mox denudatis; ascis clavatis, octosporis; sporidiis lanceolatis, uniseptatis, nec constrictis, hyalinis, 16-18 \approx 4.

Hab. in cortice ramorum Eucalypti in California (HARKNESS). 4797

136. **Nectria decolorans** Fries Scler. Succ. n. 184, Cooke in Grev. XII, pag. 81. — Ascis cylindrico-clavatis; sporidia octona elliptica, utrinque rotundata-uniseptata, leniter constricta, hyalina, 23-25 \approx 7,5.

* 140. **Nectria rubefaciens** Ellis n. 32 (Sec. cl. Rehm in litt. sed deest 7201 in Herbario Saccardiano).

143. **Nectria balsamea** Cooke et Peck. in Grevillea XII, p. 81, Sacc. 4704 Syll. p. 511. — Erumpens, cæspitosa, suborbicularis; peritheciis parvulis, levibus, coccineis, papillatis, demum collapsis, in stroma pallidum congestis; ascis cylindræo-clavatis, octosporis; sporidiis fusiformibus, quinqueseptatis, hyalinis, 30 \approx 7,7.

Hab. in cortice Abietis balsameæ in Amer. bor.

145. **Nectria oropensis** Ces. in Rabh. Herb. mycol. n. 524. — Sacc. 4806 Syll. II, p. 511. — Subiculum araneosum, albidum, tenuissimum, primo crustam lichenosam induens; perithecia subiculo insidentia, mollia, rosea seu carneola, ovato-conica, puberula, papilla paullisper obscuriori prædita, vix $\frac{1}{2}$ mm. diam.; ascis tunica tenuissima donati, subclavato-cylindræi 40 μ . longi, octospori; sporidia (in statu imperfecto) ovalia, hyalina, continua?

HYPOCREA Fr. — Sacc. Syll. II, p. 520.

* 1. **Hypocrea subrufa** Berk. et Cooke in Grev. XII, p. 79. — Gre- 7202 garia vel sparsa, superficialis, hemisphærico-depressa, subdiscoidea, rufa 1-2 mm. diam. ostiolis minimis, obscurioribus; ascis cylindræis; sporidiorum articulis subæqualibus, globosis, hyalinis, 3 μ . d.

Hab. in ramis, Neilgherries in India.

* 4. **Hypocrea splendens** Phillips et Plowr. in Grevillea XIII, p. 79. 7203 — Subglobosa, quandoque expansa, lutea v. rubro-aurantia, senescens brunnea, hemisphærica, quandoque convexa, 3-6 mm. diam.; peritheciis in parte superiore stromatis nidulantibus, minutis, atris; ascis cylindræis, octosporis, 80-90 \approx 5-6; sporidiis hyalinis in duas partes globosas divisus, nucleatis, $4\frac{1}{2}$ -5 μ . diam.

Hab. in ramis Lauri, Leicestershire Britanniae (Howe).

* 11. **Hypocrea strobilina** Phill. et Plowr. in Grevillea XIII, p. 79. 7204 — Stromate discoideo, albedo, subtili, 1-4 mm. lat.; peritheciis fla-

veolis; ascis cylindræis, octosporis; sporidiis in duas partes subglobosas, hyalinas, 5-6 = 5-5,5 secedentibus.

Hab. in conis *Abietis pectinatæ*, Hereford et Belmont Britannia.

- * 15. **Hypocrea argillacea** Phill. et Plowr. in *Grevillea* XIII, p. 79. 7205
— Pulvinata, cretaceo-colorata, subtilis, 1-3 mm. diam.; peritheciis latis, obscurioribus, prominulis, pallide brunneis; ostioliis minutis, prominulis; ascis cylindræis, octosporis, 60-70 = 8; sporidiis in 16 secedentibus, subglobosis, hyalinis, sæpe longioribus quam latis, 4-5 = 4.

Hab. in lignis putrescentibus, Dersingham Britannia.

- * 16. **Hypocrea placentula** Grov. *New Not. Fung.* p. 5, n. 41, t. 256, 7206
f. 5. — Stromatibus sparsis, tenuibus, discoideis, suborbicularibus, applanatis, matrice facillime separandis, albis, primo obtutu polyporoideis; margine byssaceo, dein nudo 1-3 mm. latis; peritheciis stipatis, minutis, hyalino-pallidis (melleis), rotundatis, fere totis immersis; ostioliis impressis, punctiformibus; ascis cylindricis, 80-90 = 3-4; sporidiorum monostichorum articulis globosis, hyalinis, 2½-3 µ. diam.

Hab. ad basim culmorum *Junci effusi* apud Olton Reservoir Britannia. — Adest simul status conidicus stromatibus minus limitatis, candidissimis; hyphis teneris, repentibus, intricatis; conidiis sporidiorum articulis similibus, conglobatis, pulveraceo-adspersis.

- * 17. **Hypocrea umbrina** Cooke in *Grevillea* XII, pag. 78, *Hypocrea* 7207
gelatinosa var. *umbrina* Cesati, *Sacc. Syll.* II, p. 524. — Convexa sublobata, 1-2 cm. lata, umbrina, leniter rugulosa, ostioliis punctiformibus, obscurioribus ornata; ascis cylindræis; sporidiis in cellulas 16, globosas, hyalinas, 4 µ. diam., dissilentibus.

Hab. in ligno putri in insula Ceylon (CESATI).

- * 18. **Hypocrea rugulosa** Berk. et Cooke in *Grev.* XII, p. 79. — Gre- 7208
garia, superficialis, pulvinata vel hemisphærica, rotundata, sicco rugulosa, carnosula, fusco-nigrescens, 1-2 mm. diam.; stromatibus laxè adhærentibus, nudis, intus fuscis; ostioliis vix prominulis; ascis cylindræis, circa 0,8 mm. long.; sporidiorum articulis æqualibus, quadrato-globosis, fuliginis, 4-4,2 µ. diam.

Hab. in ligno putri, Neigherries in India. — *Var. major* Cooke stromatibus minus rugulosis, 3-4 mm. diam., articulis sporidiorum majoribus, 5 µ. diam. In cortice arborum ibidem.

- * 19. **Hypocrea dacrymycella** Cooke et Plow. in *Grev.* XII, p. 100. 7209

— Stromatibus gregariis, 3-4 mm. superficialibus pulvinatis, humidis tremelloideis, subrufis, demum siccis collabascentibus, ex ostiis obscurioribus, punctiformibus punctatis; ascis cylindraceutis, sporidiorum articulis æqualibus, 16, subglobosis leniter granulatis, olivaceis, 6-8 \approx 6.

Hab. in Abiete, Brandon Britannicæ (C. B. PLOWRIGHT).

- *20. **Hypocrea flavo-virens** Berk. in Herb. Cooke in Grevillea XII, 7210
p. 100. — Pulvinata, orbicularis, demum centro depressa, 1-3 mm., flavo-virescens, ostiis punctiformibus, atro-viridibus; ascis cylindraceutis; sporidiorum articulis subglobosis, truncatis, olivaceis.

Hab. in corticibus, Nilgherries in India.

- *24. **Hypocrea viscidula** Phill. et Plowr. in Grevillea XIII, p. 79. 7211
— Stromate primum globoso, superne plano, postea discoideo, dein cupulato, 5-10 mm. crass., margine subtili, revoluta, primum luteo, viscido, nitente, carnosulo, albido, demum luteo, disco peritheciis obscure viridibus punctulato; ascis cylindraceutis, octosporis, 130-150 \approx 10-11; sporidiis olivaceo-viridibus, in duas partes globosas, nucleatas, 6-8 μ . diam. secedentibus.

Hab. in ligno atque cortice Pini silvestris, Brandon Britannicæ.

- *28. **Hypocrea Cesatiana** Cooke in Grevillea XII, p. 79, *Hypocrea* 7212
multiformis Cesati. — Applanata, rubro-fusca, subelliptica vel irregularis, margine flavido; ostiis vix distinctis; ascis cylindraceutis; sporidiis in cellulas globosas hyalinas, 5 μ . diam. dissilentibus.

Hab. in ligno, Sarawak (CESATI).

- *29. **Hypocrea consimilis** Ell. Nort. Amer. Fungi n. 158 et Cooke 7213
Grev. XII, p. 79. — Stromate erumpente, rufo suborbiculari, prominulo, applanato; peritheciis minutis stromate immersis, inconspicue papillulatis, poro minuto pertusis, contextu parenchymatorufulo; ascis cylindraceutis, aparthysatis, sæpe basi coalitis, 60-70 \approx 5-6, 8-sporis; sporidiis oblongo-ellipsoideis, continuis (plasmate bipartito?), hyalinis, 6-7 \approx 3.

Hab. in ramis Azaleæ viscosæ in Amer. bor. — Affinis *H. Richardsoni*.

- *30. **Hypocrea Carteri** Berk. et Curt. in Herb. Cooke in Grevillea 7214
XII, pag. 29. — Effusa, indeterminata, $\frac{1}{4}$ -1 diam. ochracea, undulata, margine tenui; ostiis punctiformibus, fuscis; peritheciis subglobosis, immersis; ascis subcylindraceutis; sporidiis ellipticis, uniseptatis, hyalinis 15 \approx 5.

Hab. in corticibus, Bombay Africae (H. Z. CARTER).

- *32. **Hypocrea cubispora** E. et Holw. in Journ. of Myc. 1885, p. 4. 7215
 — Stromate tuberculiformi, obconico, subplicato, circiter $1 \approx \frac{3}{4}$ cm., luteo-citrino, superficie ostiolis nigris punctulato; peritheciis periphericis, globosis; ascis cylindraceutis, 8-sporis; sporidiis subcuboideis, olivaceo-brunneis v. brunneo-nigris, binucleatis, $4-6 \approx 3-4$, nonnullis obscure uniseptatis.

Hab. in truncis annosis, Jowa Amer. bor.

- *40. **Hypocrea digitata** Ell. et Ev. in Journ. of Myc. 1885, p. 42. — 7216
 Stromate luteolo, digitato, radiante, in lobos copiosos, 2 mm. diam., semicylindraceutos, digitiformes, 5 cm. longos abeunte; peritheciis numerosis, immersis, globosis, minutis, nucleo albo farctis, nigris, ostiolis minutis, leniter prominulis, atris; ascis cylindraceutis, $80-90 \mu$. longis; sporidiis monostichis vel imbricatis, oblongis vel late ellipticis, hyalinis, 1-septatis, granulosis, leniter curvulis, $20-26 \approx 6-8$.

Hab. in ramulis emortuis, Withe mountains in America boreali (S. MINNS).

- *42. **Hypocrea papyracea** Ell. et Holw. in Journ. of Myc. 1886, 7217
 p. 66. — Stromate membranaceo, subtili, separabili, 2-3 cm. crasso, margine ex albo lutescente, substerili; peritheciis superficialibus, obscuris, minutis, 150μ . diam., crebre in stromate sparsis; ascis gracilibus, circiter $75 \approx 3$, p. sp. 60μ . longa, aparaphysatis; sporidiis fusoides, hyalinis, 1-septatis, $8-10 \approx 2,5-3$, facile in duas partes ad septum dissilientibus.

Hab. in parte inferiore trunci vetusti, Decorah Jowa Amer. bor. (HOLWAY).

- *43. **Hypocrea corticola** Ell. et Ev. in Journ. of Myc. 1885, p. 140. 7218
 — Stromate subtili, albo, margine subtiliter fimbriato, floccis continuis, 13 cm. vel amplius longis formato, demum sordide albo, in areas minutas ut *Corticium polygonium* diffracto; peritheciis globosis, pallidis, 75μ . diam., stromate immersis; ascis clavato-cylindraceutis, $20-22 \approx 3\frac{1}{3}$, sessilibus; sporidiis partim distichis, octonis, ovoideis, uniseptatis, facile in articulos globosos, 1μ . diam., dissilientibus, hyalinis.

Hab. in ligno ramorum emortuorum Magnoliæ glaucæ in Amer. bor. — Adsunt in stromate basidia clavato-cylindrica, sporas subglobosas, 3μ . diam. gerentia. Verisimiliter stroma est *Corticium*, fungillus vero a genere *Hypomyces* fructificatione abhorret.

- *53. **Hypocrea epimyces** Sacc. et Pat. Tab. An. Fung. fasc. IV, 7219
 pag. 175, fig. 387, *Hypocrea vinosa* Pat. in Rev. Myc. 1881, fasc. 12, pag. 11 (non Cooke Grevillea VIII, 65). — Stromate carnosio,

primum rotundato dein turbinato vel attenuato in stipitem brevem, 1-2 mm. long. attenuato, in discum circularem vel elongatum, 4-8 mm. diam. dilatato, plano aut centro depresso, primum rubro dein subnigro; peritheciis numerosis, nigris, ostiolis leniter prominulis; ascis elongatis, cylindraceis, octosporis, paraphysibus, sursum clavatis obvallatis, $50 \approx 2$; sporidiis ovoideis, uniseptatis, in duas partes globosas, nucleatas, hyalinas, facile dissilentibus, $6 \approx 3$.

Hab. in Polyporo nigricante, Poligny, Jura, Galliæ.

- *50. **Hypocrea colliculosa** Fr. in Herb. Berk. Cooke in Grev. XII, 7220
p. 79. — Pallida, effusa, planiuscula, tomentosa, 12-25 mm. lata; peritheciis convexis, magnis, 1 mm. diam.; ostiolis papillatis, atris; ascis cylindraceis; sporidiorum articulis subglobosis, 5μ . diam., hyalinis.

Hab. in Polyporo in Suecia (E. FRIES).

- *62. **Hypocrea undulata** Berk. et Cooke in Grev. XII, p. 79. — Effusa, 7221
pallide ochracea, subtenuis, undulata, margine pallidiore tomentoso; ostiolis papillatis, numerosis, fusco-atris; ascis cylindraceis; sporidiis ellipticis, diu continuis, demum uniseptatis, utrinque rotundatis, hyalinis, $17 \approx 5$.

Hab. in ligno putri, Neilgherries in India.

- *63. **Hypocrea Fendleri** Berk. et Curt. in Herb. Cooke in Grev. XII, 7222
pag. 80. — Subeffusa, plana, demum atro-fusca, margine obtuso, contextu albo; peritheciis immersis, subglobosis; ascis cylindraceis, octosporis; sporidiis ellipticis, hyalinis, 5-6 μ . longis.

Hab. in corticibus, Venezuela.

- *64. **Hypocrea Neilgherrensis** Berk. et Curt. — Cooke in Grev. XII, 7223
p. 79. — Tenuis, effusa, 1 cm. lata, convexo-applanata, ochraceo-flavida, centro fusca margine pallidiore, sterili; ostiolis papillatis, fuscis; ascis breviter cylindraceis, 50 μ . longis, octosporis; sporidiis ovalibus vel subglobosis, continuis, hyalinis, 5-6 μ . longis.

Hab. in corticibus, Neilgherries in India.

- *67. **Hypocrea pallida** Ell. et Ev. in Journ. of Myc. 1886, pag. 65. 7224
— Peritheciis ochraceo-brunneis, subglobosis, 250 μ . diam., mycelio (stromate) parco albo, tomentoso laxo hymenii superficie ac perithecia obtegente immersis; ascis cylindraceis, 65-75 \approx 4-4 $\frac{1}{2}$, octosporis; sporidiis oblongo-ellipsoideis, bicellularibus, hyalinis, articulis subcuboideis, vel vix globosis, 3 μ . diam., facile secedentibus.

Hab. parasitice in Polyporo caesio putri, Newfield Amer. bor. — Ab *H. polyporoidea*, sporidiis minoribus et crusta stromatica nulla differt.

68. **Hypocrea ochroleuca** B. et Rav. — Sacc. Syll. II, p. 534, Cooke 4901
in Grev. XII, p. 78. — Sporidiorum articuli, 6 μ . diam. hyalini.
71. **Hypocrea armeniaca** B. et C. — Sacc. Syll. II, p. 534, Cooke in 4904
Grev. XII, p. 78. — Sporidiorum articuli globosi, hyalini, 4 μ . d.
72. **Hypocrea polyporoidea** B. et C. — Sacc. Syll. II, p. 534, Cooke 4905
in Grev. XII, pag. 78. — Sporidiorum articuli globosi, hyalini, 4
 μ . diam.
74. **Hypocrea insignis** B. et C. — Sacc. Syll. II, p. 534, Cooke in 4907
Grevillea XII, p. 78. — Sporidiorum articuli subglobosi, hyalini,
3,5 μ . diam.
76. **Hypocrea sulphurea** Schw. — Sacc. Syll. II, pag. 535, Cooke in 4909
Grevillea XII, pag. 78. — Sporidiorum articuli globosi, hyalini,
5 μ . diam.
82. **Hypocrea Stereorum** Schw. — Sacc. Syll. II, p. 536, Cooke in 4915
Grev. XII, p. 78. — Sporidiorum articuli, subglobosi, hyalini.
83. **Hypocrea peltata** Jungh. — Sacc. Syll. II, p. 536, Cooke in Grev. 4916
XII, p. 78. — Articuli sporidiorum globosi, hyalini.

HYPOCREOPSIS Karst. — Sacc. Syll. II, Addenda LXVIII.

- *2. **Hypocreopsis solida** (Schw.) Berl. et Vogl. *Hypocrea solida* 1352
(Schwein.) Cooke in Grevillea XIII, pag. 8, *Hypoxylon solidum*
(Schw.) Berk. — Sacc. Syll. I, p. 358. — Asci clavati octospori;
sporidia disticha, lanceolata, uniseptata, medio constricta hyalina,
pallide fusca, 35 \approx 6-7.

LETENDRÆA Sacc. Syll. II, pag. 538.

1. *Neoskofitzia* Schulz. in *Æst. Bot. Zeitschr.* n. 8, p. 250, (1880) vi- 7225
detur idem genus ac *Letendræa* Sacc. Mich. II, p. 73. — Sporidia
quoque in *Neoskofitzia* demum fuscescunt.

Sect. 5. Phragmosporæ Sacc.

CALONECTRIA De Not. — Sacc. Syll. II, p. 540.

- *1. **Calonectria melioloides** Speg. Fungi Guar. Pug. I, n. 246. — Epi- 7225
phylla, mycelio orbiculariter expanso, 2-5 mm. diam., tenui, ara-
chnoideo-velutino, sordide albescente v. albo, ambitu effuso evane-
scente, ex hyphis gracilibus, 3-4 μ . crass. hyalinis, repentibus, dense
ramoso-intricatis, matrice arcte adnatis efformato, centro hyphis
piliformibus, erectis, subcrassiusculis, 300-400 \approx 7-8, concoloribus,
dense septatis, apice obtusis ornato; peritheciis centro laxè aggre-
gatis, siccis contracto-rugulosis, udis globuloso-depressis, 200-250 μ .

diam. subsuccineis, levibus glabris v. hyphis paucis, repentibus v. brevissime erectis donatis, tenui membranaceis, contextu indistincto, e hyalino fulvello; ascis obclavatis, sursum longe attenuatis, apice rotundatis, crasse tunicatis, deorsum subcoarctatis, brevissime noduloseque stipitatis, 105-120 \approx 14-15, apapophysatis, octosporis; sporidiis in ascorum parte infera oblique distichis, fusideo-clavulatis, utrinque obtusiusculis, 30-35 \approx 7, 5-septatis ad septa non constrictis.

Hab. ad folia viva Myrtaceæ cujusdam in silvis prope Guarapí Bras.

- *15. **Calonectria fulvida** (E. et E.) Berl. et Vogl. *Nectria fulvida* 7227
E. et E. in Journ. of Myc. 1885, pag. 140. — Peritheciis superficialibus, gregariis, subglobosis, minutis, $\frac{1}{6}$ mm. diam., tuberculoso-squamulosis, luteolis, siccitate sursum collapsis, ostiolis latis sed non prominulis; ascis oblongo-cylindraceis, subsessilibus, obtusis, circiter 75 \approx 10-12, paraphysibus indistinctis obvallatis; sporidiis octonis, fusiformibus, hyalinis vel subhyalinis, leniter curvulis, 38-50 \approx 3-3,5, biconoideis, nucleatis, demum circiter 8-septatis.

Hab. in corticibus ramulorum putrescentium *Quercus*, Newfield Amer. borealis.

- *16. **Calonectria canadensis** (Ell. et Ev.) Berl. et Vogl. *Nectria ca-* 7228
canadensis Ell. et Ev. in Torr. Bot. Club. 1884, p. 74. — Peritheciis cæspitosis, ovatis, 330 μ . diam., circiter 500 μ . altis, dense tuberculoso-granulosis, rufulis; ostiolis latis, obtusis, non prominentibus, distincte stellato-rimosis, siccis vix collapsis; ascis evanidis, 75-80 \approx 10-12 p. sp.; sporidiis irregulariter stipitatis, hyalinis, oblongis, triseptatis, leniter curvulis, utrinque obtusis. 18-21 \approx 7-9.

Hab. in corticibus Ulmi, Ottáwa, Canada Amer. bor. — Status conidicus: **Tubercularia canadensis** Ell. et Ev: sporodochiis 0,5-2 mm. altis, aurantiacis rufo stipitellatis; conidiis oblongis, 5-7 \approx 1,5. Cum statu ascophoro ibidem.

- *22. **Calonectria inconspicua** Winter in Rev. Myc. 1885. — Mycelio 7229
tenuissimo, maculas minutissimas, oculo nudo non visibiles, albas, granulatas formante, ex hyphis repentibus, ramosis, septatis, hyalinis, dense intricatis constante; peritheciis superficialibus, aggregatis, e globoso brevissime conicis, pallide-roseis, poro pertusis, vertice pilis brevibus, rigidis, non septatis, simplicibus, hyalinis, apice truncatis, emarginatisque dense obsitis, deorsum hyphis longioribus, repentibus, flexuosis, laxè vestitis; ascis lanceolatis vel

elongato-oblongis, sursum valde, deorsum parum attenuatis, sessilibus, 8-sporis, 32-37 \approx 7; sporidiis oblongo-bacillaribus, utrinque rotundatis, 4-cellularibus, 4-guttulatis, hyalinis, 10-11 \approx 2,5-3.

Hab. ad folia viva plantæ ignotæ in *Meliola* parasitans in Paraguay Amer.

*23. **Calonectria guarapiensis** Speg. Fungi Guaranitici Pug. I, n. 244. 7230

— Peritheciis hypophyllis, densiuscule aggregatis, globulosis, 80-100 μ . d. succineis, pilis brevissimis, simplicibus, 20-30 \approx 2, hyalinis laxissime ornatis, ostiolo vix prominulo, subfuscidulo, subfimbriato donatis, contextu dense subindistincteque parenchymatico-sinuoso, fulvello, in hypothallo arachnoideo-fufurello, radiatim expanso, 2-6 mm. diam., matrici arcte adnato, peripherice candido, centro fulvescente insidentibus; ascis fusoideo-cylindraceutis, antice truncato-rotundatis, postice breviter attenuato-stipitatis, 35-42 \approx 5-7, aparaphysatis, octosporis; sporidiis distichis, fusoideis v. cylindraceuto-fusoideis, rectis v. sæpius inæquilateralibus, utrinque obtusatis, 8-10 \approx 2-2,5, medio 1-septatis non constrictis, hyalinis; loculis primo 2-guttulatis, dein 1-septatis non constrictis.

Hab. ad folia viva v. languida *Sapindaceæ* speciei cujusdam in silvis prope Guarapi Bras. — Cum peritheciis ascophoris adsunt perithecia spermogonica.

*26. **Calonectria diminuta** (Cooke) Berl. et Vogl. *Dialonectria di-* 4743

minuta Cooke in Grev. XII, p. 83, *Nectria diploa* var. *diminuta* B. et C. N. Am. Fungi n. 818, *Nectria diminuta* Sacc. Syll. II, pag. 498. — Sporidia demum triseptata, hyalina, 25-30 \approx 8.

34. **Calonectria leucorrhodina** (Mont.) Speg. — Sacc. Syll. II, p. 548, 4955

var. *minor* Speg. Fungi Guar. Pug. I, n. 246. — Peritheciis laxissime aggregatis, siccis cupulato-collapsis, udis globoso-lenticularibus, 50-70 μ . d., vix papillulato-ostiolatis, dilute aurantiacis v. roseis, glabris, levibus v. vix pruinulosis, tenuissime membranaceis, contextu densissime carnosulo-indistincto, subhyalino, hypothallo furfuraceo v. arachnoideo in *Meliolarum* subiculo parasitice insidentibus; ascis fusoideo-subclavatis, antice obtuse rotundatis, postice breve crasseque stipitatis, 40 \approx 7, aparaphysatis, octosporis; sporidiis oblique distichis, subfusoideis, 11-12 \approx 3, vel cylindraceuto-clavulatis, utrinque obtusiusculis, medio 1-septatis, leniter constrictis, primo 6-guttulatis dein tenuiter 5-7-septatis, non constrictis.

Hab. ad folia viva *Aurantiaceæ* cujusdam prope Guarapi Bras.

*50. **Calonectria? guaranitica** Speg. Fungi Guar. Pug. I, n. 247. — 7231

Acervulis epiphyllis, superficialibus, minutis 0,5-1 mm. diam., sub-orbicularibus v. ellipticis, modice pulvinatis, basi coarctatulis, sparsis, in folio irregulariter longitudinaliterque subseriatis, sordide fusco-vel rubescenti-atris, glabris, ruguloso-scrupulosis, peritheciis globulosis, in acervulorum stromate immersis, plus minusve prominulis, globulosis, 300-350 μ . d., non v. vix papillato- v. mammillato-ostiolatis, membranaceo-carnosulis, mollibus, roseo- v. carneo-succineis, contextu fusco-fuligineo v. fulvescente; ascis cylindraceutis, utrinque leniter attenuatis, antice rotundatis, basi breviter stipitatis, 80-85 \approx 12-14; paraphysibus filiformibus, tenuibus tenue obvallatis, octosporis; sporidiis recte distichis, elliptico-elongatis, inæquilateralibus vel allantoideis, utrinque obtuse rotundatis, 25-28 \approx 6-6,5, 3-septatis, ad septa non constrictis, loculis guttulatis, hyalinis.

Hab. ad folia viva *Bambusa* cæcujusdam in uliginosis silvæ Naranjo Bras. — Species prædistincta a *Nectriaceis* nonnihil recedens et generi *Calonectriæ* per dubie adscripta. An melius *Broomella*?

PARANECTRIA Sacc. Syll. II, p. 552.

- *1. **Paranectria parasitica** Winter Ex. Pilze in Flora 1884, p. 7. — 7232
Peritheciis superficialibus, gregariis, globosis, astomis (ut videtur) minutissimis, 120-140 μ . diam., albis, pilis sublongis, hyalinis, sæpe crispatis, undique (parte superiore excepta) obsitis; ascis oblongis, in stipitem brevem attenuatis, 8-sporis, 44-52 \approx 12-14; sporidiis inordinatis, oblongis, utrinque attenuatis acuminatisque, seta hyalina sporidium subæquante præditis, inæquilateralibus sæpeque curvatis, triseptatis, hyalinis, 16-17,5 \approx 5-6.

Hab. in foliis et ramulis junioribus *Osyridis compressæ* in Promontorio Bonæ Spei Afr. austr.

- *2. **Paranectria? albo-lanata** Speg. Fungi Guar. Pug. I, n. 248. — 7233
Acervulis amphigenis, lineari-ellipticis, minutis, 0,5-1,5 mm. long., modice pulvinatis, basi non coarctatis, dilutissime e carneo-ferrugineis v. subrubiginosis, sæpius macula pallescente v. fuscescente, plus minusve effusa, indeterminata insidentibus, granuloso-papillulosis, superne villo densiusculo, candido, e pilis erectis, rectis v. undulatis, longiusculis, tenuibus, 200-450 \approx 2,5, hyalinis, parce septatis, simplicibus composito vestitis, peritheciis in acervulorum ambitu constipatis, monostichis, prominulis, villo absconditis, globulosis, 150-200 μ . diam., glabris, levibus, ostiolo vix manifesto, impresso pertusis, subhyalinis v. pallescenti-ceraceis, tenui-membranaceis, contextu delicatis-

simo, parum distincto, hyalino; ascis cylindraceutis v. cylindraceuto-subclavulatis, antice obtuse rotundatis crasseque tunicatis, luce refracta 1-foveolatis, postice leniter attenuatis basi que in pedicellum brevissimum, crassiusculum abrupte productis, 75-80 \approx 18-20, paraphysatis, octosporis; sporidiis oblique distichis, ellipticis v. fusoido-ellipticis, 28-32 \approx 10-12, triseptatis, ad septa leniter constrictis, utrinque appendice cylindraceuta, apice sæpius rotundato-incrassatula (an loculis extimis?), recta, 5-7 \approx 1,5-2 ornatis, rectis v. leniter inæquilateralibus, hyalinis.

Hab. ad folia viva Bambusaceæ cujusdam in silvis uliginosis prope Perybebuy Bras. — Species mox dignoscenda, pulchella, a genere nonnihil recedens sporidiis non sigmoideis.

BROOMELLA Sacc. Syll. II, p. 557.

* 1. **Broomella Muncikii** Speg. Fungi Guar. Pug. I, n. 249. — Macu- 7231
lis nullis v. epiphyllis, parum manifestis, minutis, 1-2 mm. diam., cinerescenti-arescentibus, subdeterminatis, areola plus minusve effusa, obscuriore cinctis; stromatibus hypophyllis, superficialibus, densiuscule sparsis, orbicularibus, minutis, 0,5-2 mm. diam., pulvinato-applanatis v. lenticularibus, margine obtuse rotundatis, basi non v. vix coarctatulis, matrici arcte adnatis, minutissime furfuraceo-squarrulosis, laxissime papillulosis, obsolete nigropunctatis, extus intusque cinerescentibus vel fusciscenti-griseis; peritheciis stromate immersis, globoso-obovatis, 120-200 μ . diam., dense stipatis, tenuissime membranaceis, fuscidulis, vix a stromate distinctis contextu indistincto, albo-farctis, ostiolo mammillato, nigricante, subcarbonaceo, in stromatis superficie prominulo, non vel leniter exerto donatis; ascis e basi peritheci fasciculatim exsurgentibus, cylindraceutis, 85-100 \approx 10, apice obtuse rotundatis, crasse tunicatis, luce refracta 1-foveolatis, basi plus minusve longe attenuato-pedicellatis, paraphysibus parcis, crassiuscule filiformibus obvallatis, octosporis; sporidiis hyalinis, rectis v. oblique monostichis, ellipticis, 13-15 \approx 5-6,5, utrinque obtuse rotundatis, 2-septatis, ad septa non v. vix constrictis, septis a centro remotis, loculis densiuscule guttulatis, medio cæteris duplo longiore, sæpiusque tumidiore.

Hab. ad folia viva Bignonix speciei cujusdam in dumetis pr. Guarapi Bras. — Species pulcherrima inter *Hypocreaceas* et *Dothideaceas* nutans; primis adscripta facie externa: specimina, quæ adsunt, adhuc immatura, facile hyemali tempore tantum mature-

scientia: ostiola quandoque 2-3-fasciculata: sporidia rarius 20 μ . longitud.

Sect. 4. Dictyosporæ Sacc.

PLEONECTRIA Sacc. Syll. II, p. 559.

*2. **Pleonectria guaranítica** Speg. Fungi Guar. Pug. I, n. 250. — 7235

Acervulis majusculis, 3-15 mm. diam. crasse pulvinatis, 2-5 mm. sparsis v. confluentibus repando v. gyroso-sinuosis, matrice immutata arcte adnato-superficialibus, densissime granulosis, udis carnosulis, siccis duris, extus sordide griseo-lateritiis, intus ligneo-fuscescentibus; peritheciis carnosulo-coriacellis, in pulvinula peripherica densissime constipatis, ad tertium superum vel ultra prominulis, globosis, 300-350 μ . d., glabris, levibus, ostiolo non mammillato, non v. vix acutatulato, sæpius fuscescente donatis, contextu subimperspicuo, densissimo, aurantio-fulvo; ascis cylindraceutis v. cylindraceuto-clavatis, apice truncato-rotundatis, deorsum longe attenuato-pedicellatis, p. sp. 40-55 \approx 8-12, ped. 35-40 \approx 2-3, paraphysibus crassiuscule filiformibus, guttulatis, parcissimis immixtis, octosporis; sporidiis globoso-ellipticis, utrinque obtusissime rotundatis, 8-11 \approx 6-7, primo cribrose guttulatis, dein densissime sed obscure muraliter cellulosis, hyalinis.

Hab. ad cortices truncorum putrescentium in silvis uliginosis prope Guarapí Bras.

*3. **Pleonectria fenestrata** (Berk. et Curt.) Berl. et Vogl. *Nectria* 7236

fenestrata Berk. et Curt. in Herb. et Cooke in Grev. XII, p. 81. — Cæspitosa, cinnabarina, erumpens; peritheciis globosis, levibus, glabris, vix papillatis, in stroma tuberculoideum aggregatis; ascis clavatis, octosporis; sporidiis biserialibus, ellipticis, 5-septatis muriformibusque, hyalinis, 30 \approx 10.

Hab. in corticibus, Canada et in insula Ceylon.

*4. **Pleonectria denigrata** Winter in Torr. Bot. Club. 1883, p. 49. 7237

— Peritheciis cæspitulosis densissimos, erumpenti-superficiales, pulvinato-subhemisphæricos, usque 5 mm. diam. metientes formantibus, stromatis pulvinati, intus rufescenti-lutei superficie insidentibus, fere globosis, extus griseis, eleganter nigro-papillatis, demum vertice depressis et umbilicatis, nigrescentibus, 360-470 μ . diam.; ascis cylindraceutis, breviter pedicellatis, 8-sporis, 70 \approx 8-10 (in aqua demum usque 100 μ . elongatis); sporidiis plerumque monostichis, valde difformibus, rotundato-angulatis, 3-5 transverse septatis et

muriformibus, ad septa plus minusve constrictis, pallidissime flavidulis, 10-16 \simeq 7-10; paraphysibus filiformibus, longissimis.

Hab. in ramis corticatis *Gleditschiæ Triacanthi* prope Lexington Amer. bor. (W. A. KELLERMANN).

PLEOGIBBERELLA Sacc. in litt. (Etym. *pleon* et *Gibberella* quasi *Gibberella* dictyospora). — Characteres *Gibberellæ* sed sporidia celluloso-muriformia.

* 5. **Pleogibberella calamia** (Cooke) Berl. et Vogl. *Gibberella calamia* 7238

Cooke in *Grevillea* XIII, p. 8. — Peritheciis gregariis, confertis, vertice obtuso, conico, demum subcollabentibus, opacis, violaceo-cœruleis; ascis clavatis, mox diffluentibus; sporidiis nunc ellipsoideis, nunc cylindræis, medio constrictis, valde irregularibus, muriformi-cellulosis, hyalinis, 25-30 \simeq 22, vel 40-50 \simeq 20-22.

Hab. in fructibus *Calami fasciculati*, Vizagapatam in India.

Sect. 6. Scolecosporæ Sacc.

OPHIONECTRIA Sacc. Syll. II, p. 563.

1. **Ophionectria tropicalis** Spég. *Fungi Guar.* Pug. I, n. 251. — Peri- 7239

theciis hypophyllis, sparsis, globosis, minutis, 100-180 μ . d., in sicco subsuccineis, ruguloso-contractis, udis globosis, e hyalino opacis, subiculo parcissimo, vix manifesto, tenuissimo, arachnoideo-reticulato insidentibus, glabris, levibus, ostiolo minuto, vix impresso, tenuissime membranaceis, contextu parenchymatico, sinuosulo-anguloso, e hyalino fulvescente; ascis fasciculatim e basi perithecorum exsurgentibus, cylindræis, non v. vix fusoides, apice late rotundatis, basi attenuatis, 75-80 \simeq 9-10, minute brevissimeque stipitatis, aparaphysatis, octosporis; sporidiis acicularibus v. filiformibus, 50 \simeq 2,5, 5-10-septatis, utrinque obtusis, in ascis longitudinalibus apice recte fasciculatis, basi tortis.

Hab. ad folia viva *Blechni* speciei cujusdam, sociâ *Uredineâ* depauperatâ, in silvis prope Mbatobi Bras.

2. **Ophionectria cylindrospora** (Sollm.) Berl. et Vogl. *Nectria cylin-* 7240

drospora Sollm. *Bot. Zeit.* 1864, p. 265. — Cæspitulis subrotundis vel oblongis, cortice interiore insertis, ex 6-24 peritheciis constantibus, peritheciis subrotundis, vel obovatis, obscure rubris, levibus, indistincte papillatis, tenui-membranaceis; ascis clavatis, octosporis, paraphysibus parvis, simplicibus, hyalinis obvallatis; sporidiis cylindricis, leniter curvis, utrinque rotundatis, 8-16-loocularibus, hyalinis, 40-50 \simeq 2-2½.

Hab. in ramulis siccis Pini silvestris prope Herbartsdorf.

3. **Ophionectria Briardi** Boud. in Rev. Myc. 1885, p. 226, tab. LVI, 7241
fig. 3. — Minuta, sparsa vel subgregaria, superficialis; peritheciis rotundatis aut siccitate turbinatis, 150-350 μ . latis, aureo-puberulis, ostiolo applanato, levi, nigrescente et parum conspicuo; pilis minutissimis, continuis, 20-40 \approx 5-6; ascis cylindricis, octosporis, ad basim vix attenuatis, 90-100 \approx 10-13; paraphysibus tenuibus, filiformibus obvallatis; sporidiis elongatis, ad apices attenuatis, intus granulatis, denique 7-11 septatis et oculis sæpe guttula unica repletis, 45-55 \approx 3-4.

Hab. ad Eutypellas et lignum putridum in silva Carnelle prope Montmorency Galliæ.

4. **Ophionectria coccicola** (Ell. et Ev.) Berl. et Vogl. *Nectria cocci-* 7242
cola E. et E. in Journ. et Myc. 1886, pag. 39. — Peritheciis cæspitosis, membranaceis, circiter $\frac{1}{3}$ mm. diam., $\frac{1}{2}$ mm. altis, flavolis, maturitate sordide luteo-brunneis, obovatis, astomis, rugosiusculis, setis parvis, albis, sparsis, minutis vestitis v. demum calvis; ascis clavato-cylindraceis, 150-190 \approx 20, paraphysibus crasiusculis, copiosis obvallatis; sporidiis octonis, clavato-cylindraceis, multinucleatis, hyalinis, 110-140 \approx 6-7, deorsum attenuatis.

Hab. in larvis Coccorum in cortice vivo Citri aurantii, Florida Amer. bor.

BARYA Fuck. — Sacc. Syll. II, pag. 563.

1. **Barya parasitica** Fuck. Sacc. l. c. — Huc teste Cooke (Cfr. Grevillea XII, p. 101) ducenda sunt *Acrospermum stromaticum* Cooke 5003
in Grevillea VIII, pag. 38, *Epichlœ virescens* Quelet in Grevillea VIII, pag. 38, et *Acrospermum virescens* Sacc. Syll. II, p. 808.

MICRONECTRIA Speg. Fungi Guar. Pug. I, n. 252 (Etym. *micro* parvus et *Nectria*). — Perithecia simplicia, epidermide tecta, contextu molli nectriaceo. Asci octospori; sporidia filiformia plus minusve manifeste septata. — Est *Ophionectria* peritheciis tectis, non superficialibus donata.

1. **Micronectria guaranítica** Speg. Fung. Guar. Pug. I, n. 252. — 7243
Maculis nullis; peritheciis sparsis v. hinc inde laxissime aggregatis, rarissime 2-3-cæspitosis, hypodermicis, primo tectis dein erumpenti-prominulis, epidermide laciniatim minute fissa cinctis, globulosis, 150-200 μ . d., fulvo-melleis, glabris, ostiolo vix papillato ac visibili donatis, membranaceo-carnosulis, contextu minutissime pa-

renchymatico, subindistincto, dilute fulvo v. melleo-fuligineo; ascis cylindræis, 125-150 \approx 4-4,5, utrinque leniter attenuatis, apice truncatis v. rotundato-truncatis, luce refracta foveolatis, postice brevissime stipitatis, aparaphysatis, octosporis; sporidiis filiformibus ascorum longitudine, tenuissimis, 0,6-0,8 crass., plus minusve manifeste septatis, hyalinis.

Hab. ad folia dejecta putrescentia Luheæ divaricatæ in nemorosis prope Guarapi Bras.

CLAVICEPS Tul. — Sacc. Syll. II, p. 564.

- *3. **Claviceps Wilsoni** Cooke in Grevillea XII, pag. 77. — Mycelio 7244 sclerotioideo, cylindrico, subarcuato, atro-purpureo, nigrescente; stromatibus solitariis vel binatis vel ternatis, simplicibus, carnosiss, albo-flavidis, clavula elongato-clavata, flavo-carnea, e peritheciis laxis, subliberis, prominentibus asperula, peritheciis 0,4 \approx 0,18 mm. diam.; stipite flexuoso, abbreviato, cylindrico, primum albido; ascis angustissimis, linearibus; sporidiis filiformibus, 140 μ . longis.

Hab. in sclerotio Glyceriæ fluitantis in Britannia (J. WILSON).

CORDYCEPS Fr. — Sacc. Syll. II, p. 566.

- *3. **Cordyceps insignis** Cooke et Rav. in Grev. XII, p. 78. — Livido- 7245 purpurea; stipite recto, 3-4 cm. longo, pallido, sulcato, æquali, capitulo subgloboso ovato, ob perithecia leniter asperulo; peritheciis minimis, confertis, ovatis, ostiolo punctiformi, obscuriore; ascis cylindræis, longissimis, 600 μ . long.; sporidiis filiformibus, 450, articulis dissilientibus, 12 μ . long.

Hab. in larvis emortuis humo tectis, Seaboard Car. inf. (RAVENEL). — *C. entomorrhizæ* similis sed latior firmiorque. Stipes circiter 4-5 mm. altus, longitudinaliter striatus; capitulum 1½ cm. longum, 1 cm. latum, livido-purpureum.

- *5. **Cordyceps typhulæformis** Berk. et Cooke in Grevillea XII, p. 78. 7246 — Stromate clavato, gracili, carneo-rubro, in stipitem æqualem attenuato, carnosissimo, circa 1,25 cm.; peritheciis subprominulis; ascis cylindræis; sporidiis filiformibus.

Hab. in larvis?, Java.

- *6. **Cordyceps Odyneri** Quèl. in Bull. Soc. Myc. Franc. 1886, p. 80. 7247 — Stipite gracili, 1-2 cm. longo, pruinoso, griseo, e mycelio floccoso-farinoso, albo oriente; capitulo ovoideo, olivaceo-griseo; peritheciis ovato-conicis, semiliberis, prominentibus, parvis, concoloribus; sporidiis filiformibus, 80 \approx 5, hyalinis.

Hab. in nymphe Vesparum sub cortice trunci Betulæ pr. Saint-Prix Galliæ.

42. **Cordyceps sinensis** Berk. — Sacc. Syll. II, p. 577. — Asci cylindracei, apice capitati; sporidia filiformia, in fragmenta dissiliencia. 5051
44. **Cordyceps dipterigena** Berk. et Br. — Sacc. Syll. II, p. 577. — Asci lineares, subflexuosi; sporidia filiformia, articuli breves, subquadrati. 5053

TORRUBIELLA Boud. in Rev. Myc. 1885, p. 227, t. LVI, fig. IV (Ety. a Rev. J. *Torrubia*). — Perithecia superficialia, sessilia, stromate byssino tenui, membranaceo, nullomodo clavato suffulta. Paraphyses conspicuæ, tenuissimæ, ad apicem incrassatæ. Asci lineares, octospori. Sporidia filiformia, obscure septata et granulosa. Entomogena.

1. **Torrubiella arancida** Boud. in Rev. Myc. 1885, p. 227, tab. LVI, fig. IV. — Entomogena, in aranea quadam lucifuga reperta; peritheciis elongato-conicis, subflexuosis, 0,65-0,70 mm. altis, 0,30-0,35 mm. crassis, levibus ochraceis vel ochraceo-aurantiis, in stromate byssino, albido, tenui, numerosis sed sparsis aut cæspitosis; paraphysibus conspicuis, ascorum longitudine, gracillimis, apice clavula, 3 μ . crassa terminatis; ascis linearibus, longissimis, octosporis, 330-350 = 5-6, apice rotundato, non tumescente; sporidiis filiformibus, tenuissimis, ascos longitudine æquantibus aut superantibus «(?)», obscure septatis et granulosis, 300-400 = $\frac{1}{2}$ -2. 7248

Hab. ad araneam lucifugam sub trunco putrido mortuam, Montmorency Galliæ.

BALANSIA Speg. Fungi Guar. Pug. I, n. 253 (Ety. a cl. botanico *Balansa*). — Stromata stipitato-capitata, extus atra, intus pallidiora, in matrice fere sclerotiacea, nigrefacta dense gregaria. Perithecia in capitulis stromatis peripherica. Asci cylindracei, paraphysati, octospori. Sporidia filiformia ascorum longitudine, hyalina. — Genus singulare, in spicis graminacearum viventium vigens, *Clavicipiti* peraffine, ab eo tamen satis recedens.

1. **Balansia Claviceps** Speg. Fungi Guar. Pugill. I, n. 253. — Spicis ad rachidem reductis; rachidibus incrassatulis, longitudinem normalem superantibus, 15-20 cent. long. 2-4 mm. crass., intus albis, lignoso-fibrosis, duris extus fusco-atris v. atris, levibus, barbulis denudatis ac, spicularum loco, stromata gerentibus; stromatibus hemisphæricis v. globulosis, 1,5-3 mm. diam. stipite plus minusve 7249

abbreviato, 0,5-3 mm. long., crassiusculo, 1-1,5 mm. crass. insidentibus, intus albo-fuscescentibus, sublignoso-carnosulis, duriusculis, extus atris, glabris, levibus, vix sub lente valida densissime minuteque granuloso-punctulatis, peritheciis sub cortice in stromatum capitulis periphericis, densissime constipatis e substantia vix distincta, obovatis, 200-220 μ . alt. 120-140 μ . diam., ostiolo perforato, superficiem stromatis vix attingente donatis; ascis cylindraceutis, apice rotundatis, tunica valde incrassata, basi leniter attenuatis, brevissime rotundatis, 150-160 \approx 5-6, aparaphysatis, octosporis, e fundo peritheciorum fasciculatim exsurgentibus; sporidiis filiformibus, fasciculatis, longitudine ascorum, tenuibus, 0,6-0,8 crass., densiuscule ac parum manifeste septatis, hyalinis.

Hab. ad spicas evolutas *Setariæ* v. *Penniseti* speciei cujusdam in dumetis ripariis fluminis Pirayú Bras. — Species pulcherrima habitu fere *Sclerotii clavi*, formam giganteam clavulis ascigeris, confertissimis ornatam simulans; rachide spicarum vix deformata, barbulis amissis, spiculis in capitula stromatica mutatis. Ob perithecia parum a stromatis substantia distincta ad *Dothidea-ceas* nonnihil vergens.

EPICHLÖE Fr. — Sacc. Syll. II, p. 579.

*3. **Epichloe? nigricans** Speg. Fungi Guar. Pug. I, n. 254. — Stro- 7250
matibus partem breviusculam, 5-10 mm. long., sub nodis culmorum infectantibus non v. vix eam tumefacientibus sed nigrificantibus, tenuibus, 250-300 μ . crass., in juventute molliusculis, intus albis in senectute subcrustaceo-fragilibus, intus fuscescentibus, levibus; peritheciis (an oculis?) stromate immersis, densissime constipatis, elliptico-ovatis, basi sæpius truncatis, minutis, 140-150 \approx 50-80, ostiolo perforato, stromatis superficiem vix attingente donatis; ascis cylindraceutis vel subfusoides-cylindraceutis, antice-rotundatis crassissimeque tunicatis, luce refracta bifoveolatis, postice attenuatis ac breviter pedicellatis, p. sp. 90-100 \approx 4-5, ped. 15-20 \approx 1-2, aparaphysatis, octosporis; sporidiis fasciculatis, filiformibus, 70-80 \approx 0,6-0,8, laxe septulatis, rectis, hyalinis.

Hab. ad culmos vivos *Graminaceæ* minoris cujusdam in pratis prope Guarapí Bras. — Species pulchella et facile ad *Dothidea-ceas* transferenda; ab *E. strangulante* ut videtur, satis recedit. Inter perithecia ascigera adsunt nonnulla spermatiphora, omnia simillima, spermatia fusoides-clavulata, utrinque attenuata, apice truncato-rotundata basi-elongato-acutata, subinæquilateralialia, 15-

20 \approx 1-1,5, non v. pluriguttulata, hyalina, in sterigmatibus fusoides, 7-8 \approx 1, utrinque attenuato-truncatis exurgentia.

HYPOCRELLA Sacc. Syll. II, p. 579.

- *1. **Hypocrella? guaranitica** Speg. Fungi Guar. Pug. I, n. 256. — 7251
Stromatibus hypophyllis, globosis 1,5-2,5 mm. diam., densiuscule gregariis, rarius confluentibus, superficialibus, minute laxeque papillulatis v. granulosis, glabris, extus fusco-ferrugineis v. fusco-atris, intus albo-fuscescentibus, vivis carnosulis, siccis duris; peritheciis in stromate periphericis, globosis v. ellipticis, 150-180 μ . diam., laxe constipatis parum a substantia stromatica distinctis, ostiolo perforato, stromatis superficiem attingente ac minute papillato-prominulo donatis; ascis cylindraceutis v. subfusoides-cylindraceutis, apice crassissime tunicatis, luce refracta 1-foveolatis, basi breviter crasseque attenuato-pedicellatis, 130-150 \approx 5-7 octosporis apapophysatis; sporidiis fasciculatis, ascorum longitudine, filiformibus, mox in articula 3-7 \approx 1, utrinque truncata, crasse 2-4-guttulata secedentibus.

Hab. ad folia viva Euphorbiaceæ (Colliguaja spec.) in silvis subvirgineis prope Villa-Rica Bras. — Species pulcherrima et ad *Dothideaceas* vergens; stromata in foliis dejectis maturantia sed facillime a matrice secedentia.

GLAZIELLA Berk. — Sacc. Syll. II, p. 581.

5. **Glaziella vesiculosa** Berk. Fungi Bras. in Vedens. Meddel. Nat. Kjobenhavn, 1879-80, p. 751, Sacc. Syll. II, p. 582, Cooke in Grevillea XII, p. 78. — 5075
Subglobosa, ochraceo-flavida, vesiculosa, magna, 75-100 mm. diam., glabra binc illinc rugulosa, contextu carnosio; peritheciis periphericis, immersis, pallidis, immaturis.

Hab. in provincia Rio de Janeiro (A. GLAZIOU).

Fam. 5. **Dothideaceæ** NITS. et FUCH.

Sect. 1. **Hyalosporæ** Sacc.

BAGNISIELLA Speg. — Sacc. Syll. II, p. 589.

- *1. **Bagnisiella tessellata** (Lév.) Berl. et Vogl. *Dothidea tessellata* 7252
Cooke in Grevillea XIII, pag. 66, *Hormosphaeria tessellata* Lév. Ann. Sc. Nat. 1863, p. 297. — Conceptaculis gregariis, discretis, erumpentibus, globosis, tessellato-rimosis, macula albida convexa,

demum nigra insidentibus, ostiolis (quando conspicuis) papillatis; ascis pallide viridibus; sporidiis globosis, concatenatis, levibus, hyalinis.

Hab. ad folia *Thibaudia* floribundæ, Nova Granada.

- *2. **Bagnisiella Rhamni** (Mont.) Berl. et Vogl. *Dothidea Rhamni* Mont. 7253
in herb. Berk. Cooke in Grev. XIII, p. 66, *D. clavuligera* B. et Br. in herb. Berk. — Erumpens; stromate discoideo vel elliptico, rugoso-papillato, atro, opaco, 2 mm. diam.; ascis cylindrico-clavatis, octosporis; sporidiis sublanceolatis, continuis, hyalinis, sæpe 2-4-nucleatis, 20-22 \approx 5.

Hab. ad corticem *Rhamni*, France England.

- *6. **Bagnisiella Cercidis** (Cooke) Berl. et Vcgl. *Dothidea Cercidis* 7254
Cooke in Grev. XIII, p. 66. — Erumpens, orbicularis, hemisphærica, demum centro depressa, atra, opaca, loculis paucis; ascis clavatis; sporidiis biserialibus, elliptico-lanceolatis, continuis, hyalinis, 30 \approx 10.

Hab. in ramis *Cercidis canadensis* in Carolina Amer. bor.

MAZZANTIA Mont. — Sacc. Syll. II, p. 591.

- *4. **Mazzantia Brunaudiana** Sacc. et Berl. Misc. Myc. II, pag. 23, 7255
tab. X, f. 25. — Stromatibus clypeatis, oblongis, 3 \approx 1,5-2 mm., aterrimis, nitidis, paucilocellatis, loculis globosis, in superficie stromatis subinde leniter prominulis, ostiolis obsolete; ascis teretibus, stipitatis, 70-80 \approx 10-12, aparaphysatis; sporidiis distichis, oblongis, utrinque rotundatis, 9-10 \approx 4, biguttulatis, hyalinis, strato mucoso initio obvolutis.

Hab. in caule *Umbelliferarum*, Saintes Gallie (BRUNAUD).
A *Mazz. sepium* stromatibus multo majoribus, sporidiis initio mucosis etc. differt.

SCIRRHIELLA Speg. Fungi Guar. Pug. I, n. 258 (Etym. a *Scirrhia* cui hoc genus affine). — Stroma epidermide tectum, lineare, rimose erumpens, extus atrum, intus subceraceum, fuscum; loculi (an perithecia?) tunica in juventute cum stromatis substantia continua, dein superne carbonacea, atra, continua, inferne membranacea, tenui discreta ac distincta; asci cylindraneo-clavati, octospori, paraphysati; sporidia elliptico-clavata inferne subattenuato-curvata, simplicia hyalina. — Genus singulare inter *Dothideaceas* et *Nectriaceas* nutans; sporidiis generi *Apiosporæ* etiam peraffine, ab omnibus tamen satis recedens.

1. **Schirrhella curvispora** Speg. Fungi Guar. Pug. I, n. 258. — Stromatibus linearibus, 1-6 mm. long. 0,5-0,7 crass. tectis, subseriatis, rimose erumpentibus, non exertis, extus atris, glabris, rugulosis, intus ceraceo-fuscis, per ætatem sæpe cavis; loculis (peritheciis?) dense constipatis, tunica primo tota cum stromatis substantia continua, dein superne continua, atra, carbonacea, inferne discreta membranacea, tenui, majuscule parenchymatica, olivaceo globoso-depressis, 200-300 μ . d. 150-200 μ . alt., e mutua pressione angulosis, ostiolo minuto, parum perspicuo, stroma perforante, sed non exerto donatis; ascis cylindraneo-clavatis v. toruloso-cylindraceutis, antice rotundatis, postice breve crasseque stipitatis, 100-105 \approx 25-28, crasse tunicatis, octosporis, muco granuloso ac paraphysibus crassis, septulatis, densis, subfluxilibus obvallatis; sporidiis distichis, elliptico-elongatis, sursum rotundatis ac non v. vix acutatis, deorsum leniter attenuatis, rotundato-acutatis, abruptiusculis, e latere incurvatis, 40-42 \approx 10-11, percrasse 1-guttulatis, hyalinis.

Hab. ad culmos dejectos putrescentes Bambusaceæ cujusdam in silvis prope Carapeguá Bras.

PHYLLACHORA Wits. — Sacc. Syll. II, p. 595.

- *1. **Phyllachora opaca** Speg. Fungi Guar. Pug. I, n. 270. — Maculis nullis vel vix manifestis, pallescentibus; stromatibus plus minusve dense sparsis, irregulariter suborbicularibus, 0,5-2 mm. diam., e lenticulari applanatis, matrice innatis, epiphyllis vel amphigenis, glabris, levibus, vix sub lente validissima obscure punctulatis, atris, opacis, extus atro-carbonaceis, intus fusco-fuligineis, contextu indistincto; loculis densissime constipatis, ex ovato-ellipticis, minutis, 100-150 μ . diam., nucleo albo farctis; ascis fusoido-cylindraceutis, antice truncatis, postice breviter crasseque attenuato-stipitatis, 80-85 \approx 6-8, octosporis, aparaphysatis vel vix paraphysibus nonnullis filiformibus, simplicibus obvallatis; sporidiis ellipticis, non vel vix ovoideis, utrinque plus minusve acutiuscule rotundatis, 10 \approx 4-4,5, oblique monostichis, hyalinis.

Hab. ad folia viva Myrtaceæ cujusdam in silva subvirginea Caagurazú Bras.

- *2. **Phyllachora Sinik-Lagaraik** Speg. Fungi Guar. Pug. I, n. 273. — Maculis nullis; stromatibus epiphyllis non vel vix ad hypophyllum manifestis, orbicularibus, 300-700 μ . diam., lenticulari vel subconoideo-pulvinatis, glabris, levibus, atris, satis nitentibus, sparsis vel rarius confluentibus, 2-4 mm. diam., carbonaceis, contextu in-

distincto; loculis 1-4 in quoque stromate, gyroso-angulosis, 100-150 μ . diam. nucleo albo farctis; ascis cylindraceo-obclavatis, antice rotundato-truncatis, postice breviter attenuato-pedicellatis, 65-72 \approx 12-13, paraphysibus filiformibus, densis obvallatis, octosporis; sporidiis oblique vel transverse monostichis, ellipticis, utrinque rotundato-subtruncatis, 11-12 \approx 7-8, granuloso-farctis, hyalinis.

Hab. ad folia viva *Myrsines floribundæ* in dumetis prope Guarapí Bras. — Sub nomine *Sinik-lagaraik* (trad. litt. *pestis nigra*) incolæ barbari omnes morbos foliorum plantarum indicant.

- *3. **Phyllachora pirifera** Speg. Fungi Guar. Pug. I, n. 277. — Ma- 7250
culis nullis; stromatibus sparsis, rarius 2-5-gregariis vel confluentibus, parvulis, 300-500 μ . diam., matrici innatis, epiphyllis vel amphigenis, vix prominulis, atris, glabris, non v. vix nitentibus, pauciloculatis, contextu atro, subcarbonaceo, indistincto; loculis globosis vel e mutua pressione angulosis, 80-120 μ . diam., nucleo albo farctis; ascis cylindraceis, antice rotundatis vel truncato-rotundatis, postice breviter attenuato-pedicellatis, 70-80 \approx 7-12, octosporis, paraphysibus filiformibus, densiusculis obvallatis; sporidiis oblique monostichis vel rarius subdistichis, piriformibus vel sphæroideo-piriformibus, 12-13 \approx 6-8, primo granulosis, dein limpidis, hyalinis.

Hab. ad folia viva *Verbesinæ* cujusdam in dumetis prope Guarapí Bras.

- *4. **Phyllachora pulchra** Speg. Fung. Guar. Pug. I, n. 276. — Ma- 7260
culis nullis vel vix manifestis, pallescenti-fuscescentibus, indeterminatis; stromatibus hypophyllis, hemisphærico-pulvinatis, 500-800 μ . diam., sæpius orbiculariter expansis, sæpe 2-3-confluentibus e brunneo atris, glabris, levibus, matrici innatis, forma conidica immixtis, 3-8-ocularibus, contextu indistincto, extus atro, intus albo; loculis constipatis, sæpe e mutua pressione angulosis, 150-180 μ . diam., nucleo albo farctis; ascis clavatis, antice acutatis, crassiuscule tunicatis, postice longiuscule attenuato-pedicellatis, 75-80 \approx 12-16, paraphysibus paucis, filiformibus obvallatis, octosporis; sporidiis mono-vel distichis, ellipticis vel rhomboideo-ellipticis, utrinque plus minusve abrupte rotundato-subtruncatis, 16-18 \approx 8, hyalinis, strato mucoso, concolore, crassiusculo obvolutis.

Hab. in foliis vivis *Sapoteaceæ* cujusdam in dumetis, Cerro pelado prope Paraguari Bras.

- *5. **Phyllachora peribebuyensis** Speg. Fungi Guar. Pug. I, n. 274. 7261
— Maculis orbicularibus, densiuscule sparsis amphigenis, subdeterminatis, centro arescenti-fulvescentibus, fusco- vel purpureo-

areolatis, 3-4 mm. diam.; stromatibus hypophyllis in centro macularum solitariis, rarius 2-3-aggregatis, lenticularibus vel globulosis, parvulis, 0,5-1 mm. diam., superne applanatulis, inferne a matrice liberis, vix centro subpedicellato-adnatis, convexulis, glabris non vel minutissime rugulosis, atris, cortice subcarbonaceo, pulpa subcarnosula, olivaceo-fuliginea donatis, contextu indistincte parenchymatico-celluloso, loculis in disco supero dense constipatis, globulosis vel e mutua pressione angulosis, 150-250 μ . diam., nucleo albo farctis; ascis cylindraceutis, antice rotundatis, postice longiuscule attenuato-pedicellatis, p. sp. 80-90 \approx 9-11, octosporis, paraphysibus filiformibus, simplicibus, densiusculis obvallatis; sporidiis oblique monostichis, ellipticis, utrinque acutiuscule rotundatis, 15-18 \approx 6-8, primo granuloso-farctis, dein crasse 1-guttulatis, hyalinis vel dilutissime olivascentibus.

Hab. ad folia viva Melastomaceæ cujusdam in silvis prope Perybebuy et Carapeguá Bras. — Species ab hoc genere nonnihil desciscens et generi *Bagnisiellæ* accedens, ab utroque tamen satis distincta; an novum genus? Externa facie *Phacidii* species nonnullas simulans. Jodi ope tunica ascorum vix cœrulescit.

- *6. **Phyllachora gibbosa** Winter in Rev. Myc. 1885, p. 207. — Stromatibus hypophyllis, sparsis, in superiore facie foliorum non v. macula minuta, fusca indicatis, erumpentibus, superficialibus, pulvinatis vel tuberculosis, atris, rugulosis, 1- $\frac{1}{4}$ mm. latis 0,6 mm. altis; loculis in singulo stromate 6-8, angulato-sphæroideis vel mutua pressione irregulari-oblongis, ostiolo conico, pertuso prominulo, sepimentis tenuibus, fuscis, membranaceis, separatis, 260-320 μ . latis; ascis cylindraceutis, vertice obtusis, fere truncatis, deorsum longe attenuatis, 8-sporis, 90-100 μ . longis (p. sporif.), 9,5-10,5 μ . latis; paraphysibus filiformibus, ascos longe superantibus; sporidiis monostichis, ellipsoideis vel ovoideis, 1-cellularibus, utrinque late rotundatis, hyalinis, 12-16 \approx 8-9. 7262

Hab. ad folia viva speciei cujusdam adhuc indeterminatæ Melastomatium Paraguay et Brasile Amer. austr.

- *8. **Phyllachora tenuis** Speg. Fungi Guar. Pug. I, n. 278. — Maculis nullis v. vix manifestis, indeterminatis, pallescentibus; stromatibus sparsis, epiphyllis, bullose prominulis, minutis, 200-400 μ . d., innatis, tenuissimis, extus atris, glabris non v. vix subnitentibus, intus albis; loculis minutis, 120-150 μ . diam., dense constipatis, ostiolo subimperspicuo nucleoque albo donatis; ascis cylindraceutis v. cylindraceuto-clavatis, antice rotundatis, crasseque tunicatis, postice 7263

attenuato-pedicellatis, 70-75 \approx 10; paraphysibus parum manifestis, subfluxilibus obvallatis, 8-sporis; sporidiis elliptico-navicularibus, curvulis, utrinque plus minusve acutato-rotundatis, 10-13 \approx 4-4,5. intus granulosus v. crasse 1-guttulatis, hyalinis.

Hab. ad folia viva Bignoniaceæ cujusdam in silvis subvirginis prope Ibitimis Bras. — Sporidia an postremo excentrice 1-septata? An forma juvenilis *Munkiellæ*?

*9. **Phyllachora Pestis-nigra** Spieg. Fung. Guar. Pug. I, n. 275. — Stro- 7264

mate parum manifesto, innato, ramulos foliaque omnia ac tota ambiente eaque tamen vix deformante, sed intense nigrificante; loculis parenchymate immersis, vix ad epiphyllum prominulis ac perspicuis, minutis, globoso-lenticularibus, 100-150 μ . diam., densiuscule sparsis, non confluentibus, epidermide tectis, atris, glabris vel vix rugulosis, coriaceo-carnosulis, contextu indistincto, extus nigro, intus albo; ascis clavulatis vel cylindraceo-clavatis, antice obtuse rotundatis, postice vix attenuatis, breviter crasseque pedicellatis, 40-50 \approx 10-12, aparamphysatis, octosporis; sporidiis distichis vel oblique monostichis, ellipticis, utrinque plus minusve acutato-rotundatis, 8-10 \approx 3,5, hyalinis.

Hab. ad folia viva Malpighiaceæ? arbustivæ cujusdam in dumetis prope Guarapí Bras. — Sporidia an primo strato mucoso, tenui obvolutis?

9. **Phyllachora laurina** Cooke in Grevillea XIII, pag. 63. — Hypo- 7265

phylla, gregaria, erumpens; stromatibus minutis, in maculas orbiculares dispositis, atris, subangulosis, hemisphæricis, intus albis; ascis clavatis, subsessilibus; sporidiis ellipticis, continuis, byalinis, 16-18 \approx 5.

Hab. in foliis Lauraceæ, Barra Amer.

*10. **Phyllachora intermedia** Spieg. Fungi Guar. Pug. I, p. 241. — 7266

Maculis nullis v. vix manifestis, pallescentibus; stromatibus foliicolis, epi-v. hypophyllis, v. ramuliculis, 1-6 mm. diam., in foliis bullosis, in ramulis crassiuscule pulvinatis, suberumpenti-innatis, scrupuloso-tuberculosis, atris, opacis, subcarnosulis, contextu indistincto; loculis irregulariter subglobosis, e mutua pressione tortuoso-sinuosis, sæpe confluentibus, ostiolo minuto, non papillato donatis, nucleo albo farctis; ascis cylindraceo-subfusoides, antice truncato-rotundatis crassissimeque tunicatis, luce refracta 1-foveolatis, postice attenuato-pedicellatis, p. sp. 50 \approx 10, ped. 20 μ ., 8-sporis, paraphysibus filiformibus laxissime obvallatis; sporulis ellipticis,

utrinque rotundatis v. plus minusve obtusatis, $12 \simeq 5$, non v. crasse 1-guttulatis, in ascis oblique monostichis v. distichis.

Hab. ad folia, petiolos nec non ramulos Sapindaceæ speciei cujusdam in silvis prope Guarapî.

* 15. **Phyllachora amphigena** Speg. Fungi Guar. Pug. I, n. 259. — 7267

Maculis nullis v. vix manifestis, 2-10 mm. diam., pallescentibus v. fuscescentibus, indeterminatis, epiphyllis v. rarius amphigenis; stromatibus minutulis, e globoso lenticularibus, 150-200 μ . diam., densiuscule gregariis, suborbiculariter in maculas dispositis, in matrice utrinque prominulis, levibus, glabris, atris, nitentibus, coriaceo-subcarbonaceis, opacis, contextu indistincto; loculis solitariis v. rarius binis in quoque stromate, ostiolo latiuscule hiante, epiphyllum spectante donatis; ascis subclavatis v. obclavatulis, antice rotundatis v. subtruncatulis, postice brevissime crasseque pedicellatis, 50-60 \simeq 12-16, subcrassiuscule tunicatis, octosporis, paraphysibus raris, filiformibus, guttulatis obvallatis; sporidiis distichis v. subtristichis, utrinque obtusatis, 16-19 \simeq 6-8, inæquilateralibus v. subcymbæformibus, non v. crasse 1-guttulatis, hyalinis.

Hab. ad folia viva Bignoniæ speciei cujusdam in dumetis pr. Guarapî et Paraguari Bras.

* 16. **Phyllachora Ruprechtiae** Speg. Fungi Guar. Pug. I, n. 263. — 7268

Maculis nullis aut vix manifestis, epiphyllis, fumoso-fuscescentibus, indeterminatis; stromatibus parvulis subhemisphæricis, lenticularibus, 350-400 μ . d., in maculis irregulariter densiusculeque sparsis, non confluentibus, matrice semiimmersis, in epiphyllis exertis, in hypophyllo epidermide tectis et vix prominulis, levibus, glabris, atris, nitentibus, coriaceo-subcarbonaceis, opacis, contextu indistincto, loculis in stromatibus solitariis, nucleo albo farctis, ostiolo vix vel non papillulato donatis; ascis cylindræis, antice truncato-rotundatis, postice breviter attenuatis ac crassiuscule pedicellatis, 60-65 \simeq 8-12, octosporis, aparaphysatis; sporidiis oblique v. transverse (extimis exceptis) monostichis, ellipticis, non v. vix ovoideis, medio non v. lenissime subattenuatis, 11 \simeq 6-6,5 episporio tenui, nubiloso-ruguloso? (an protoplasmate?) donatis, hyalinis.

Hab. ad folia viva Ruprechtiae speciei cujusdam in silvis subvirgineis prope Paraguari Bras.

* 17. **Phyllachora Engleri** Speg. Fungi Guar. Pug. I, n. 265. — Ma- 7269

maculis nullis v. vix pallescentibus, indeterminatis, non v. vix subbullosis, stromatibus densiuscule gregariis, amphigenis, matrici innatis, vix lenticulari-pulvinatis, 3-5 mm. diam., 0,40-0,45 mm.

crass., irregulariter orbicularibus ambitu, plus minusve obtuse anguloso-repandulis, extus glabris, levibus, atris, nitentibus, intus amphigenis, peritheciigeris, cortice atro, medulla alba; loculis immersis, dense constipatis, lenticulari-conoideis, parvulis, 120-140 μ . d., ostiolo minutissimo, stromatis superficiem attingente et non exserto donatis; ascis cylindraceutis, apice truncato-rotundatis, postice breviter crasseque attenuato-stipitatis, 56-60 \approx 6-7, paraphysatis, octosporis; sporidiis recte distichis, ellipticis v. elliptico-navicularibus, utrinque acutiusculis, 10-13 \approx 3-4, rectis v. curvulis, primo protoplasmate granuloso-farctis dein crasse 2-guttulatis, hyalinis.

Hab. ad folia viva Spathycarpæ lanceolatae ad ripas fluminis S. Antonio prope pagum Villeta Bras. — Specimina nonnihil immatura videntur, et facile stromata, post foliorum delapsum, maturescentia: sporidia tandem didyma (?) et species ad genus *Dothidella* transferenda.

- * 18. **Phyllachora Astronii** Speng. Fungi Guar. Pug. I, n. 262. — Maculis nullis aut vix manifestis, pallescentibus v. fusciscentibus, sparsis, indeterminatis; stromatibus parvulis, subgloboso-lenticularibus 200-300 μ . d., in maculis 1-5 laxè aggregatis, rarissime confluentibus, matrice innatis, utrinque prominulis, levibus, glabris, atris, nitentibus, coriaceo-carbonaceis, opacis, contextu indistincto; loculis solitariis in quoque stromate, nucleo albo farctis, ostiolo sæpius epiphylo, parvulo ornatis; ascis cylindraceutis, sæpe subtorulosis, antice rotundatis, postice brevissime crassissimeque attenuato-stipitatis, 50 \approx 20, octosporis, paraphysibus filiformibus, densiusculis obvallatis; sporidiis irregulariter distichis, extimis exceptis, ellipticis (an leniter obovatis?) utrinque obtusissime rotundatis, 12-14 \approx 8-9, episporio tenuiusculo (an minute denseque punctulato?), non v. 2-guttulatis, hyalinis.

Hab. ad folia viva Astronii juglandifolii in silvis montanis de Peribeby Bras.

- * 20. **Phyllachora aspideoides** Sacc. et Berl. in Rev. Myc. 1885, t. LIV, f. 7. — Picea; stromate orbiculari, applanato, maculis foliorum luteis insito, loculis minutis, vix prominulis; ascis cylindraceutis, breve stipitatis, paraphysatis, 100-110 \approx 12-14; sporidiis oblique monostichis, ovoideis, crasse uni guttatis, continuis, 20 \approx 10, hyalinis.

Hab. in pagina inf. foliorum Fici..... Santos Bras. — *Ph. Aspidew* peraffinis, a qua ascis apice rotundatis differt. An satis?

- * 21 **Phyllachora exanthematica** (Lév) Cooke in Grevillea XIII, p. 64,

Dothidea exanthematica Berk. in Herb. — Hypophylla vel amphigena; stromate elliptico, convexo, 3 ≈ 4 mm. atro, nitido, levi; ascis subclavatis; sporidiis ellipticis, continuis, hyalinis, 13-18 ≈ 6.

Hab. in foliis coriaceis in insulis Marquesas et Mauritius.

- *22. **Phyllachora infectoria** Cooke in Grevillea XIII, p. 63. — Epi- 7273
phylla; stromatibus pulvinatis, convexis, irregularibus, confluentibus, atris, nitidis, loculis immersis, numerosis, ostiolis obscuris; ascis clavato-cylindræis; sporidiis ellipticis, continuis, hyalinis, 12 ≈ 5.

Hab. in foliis Fici infectoriæ, Ceylon.

- *26. **Phyllachora sphærosperma** Wint. in Hedw. 1884, pag. 170. — 7274
Stromatibus sparsis, rotundatis seu ellipsoideis. interdum confluentibus, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., atris, parum nitidis, ob ostiola prominula subtuberculatis, loculos globoso-angulatos, dense stipatos includentibus; ascis cylindræis, breviter stipitatis, 8-sporis, 84-96 ≈ 10-10,5; sporidiis monostichis, subglobosis, hyalinis, demum autem fuscis, levibus, plerumque 9 μ . diam.; paraphysibus filiformibus.

Hab. in foliis vivis Cenchri echinati prope S. Francisco Calif. — «An potius *Auerswaldiæ* species?».

- *27. **Phyllachora? Alpinæ** Sacc. et Berl. Misc. Myc. II, pag. 5. — 7275
Stromatibus oblongis, obtuse colliculosis, nitidissimis, nigris epiphyllis, macula decolorata sæpius insertis; loculis majusculis, paucis; ascis...

Hab. in foliis Alpinæ cœruleæ emortuis Tallebud Australiæ. — Affinis videtur *Ph. phylloplacæ*, sed fructificatio ignota.

- *28. **Phyllachora interstitialis** (B. et C.) Cooke in Grev. XIII, p. 64, 7276
Dothidea interstitialis B. et C. in Herb. Berk. — Hypophylla; maculis atris, irregularibus, foliorum nervulis limitatis, 2-3 mm., diam., loculis paucis, stroma elevantibus, subnitidis; ascis clavatis; sporidiis ellipticis, continuis, hyalinis, immaturis, circ. 10 μ . long.

Hab. in foliis, Cuba.

- *33. **Phyllachora Zanthoxyli** (Lév.) Cooke in Grevillea XIII, pag. 63. 4453
Sphaeria Zanthoxyli Lév. Ann. Sc. Nat. 5, 1846, p. 261, et Sacc. Syll. II, p. 435. — Asci clavati, octospori; sporidia biseriata, sublanceolata, continua, hyalina, 13 ≈ 3.

- *35. **Phyllachora Copaiferæ** Speg. Fungi Guar. Pug. I, n. 267. — 7277
Maculis mediocribus, 5-6 mm. diam., expallentibus indeterminatis; stromatibus matrice innatis, dense aggregatis, sæpe leniter 2-5-confluentibus, totam maculam occupantibus, epiphyllis v. subamphigenis, ad hypophyllum non vel vix prominulis, epidermide macula nigra

notata adnato-tectis, e globosis lenticularibus, 250-400 μ . d., glabris, atris, nitentibus, coriaceo-subcarbonaceis, contextu indistincto, opaco; loculis solitariis v. 2-3 in quoque stromate, globulosis v. e mutua pressione difformibus, 200-300 μ . d., nucleo albo farctis, ostiolo in stromate vix v. non papillulato donatis; ascis cylindræis, antice truncato-rotundatis, postice brevissime crasseque attenuato-stipitatis, 70-80 \approx 10-12, octosporis, paraphysibus filiformibus, septulatis, densiusculis, conspicue longioribus obvallatis; sporidiis oblique monostichis, elliptico-inæquilateralibus, v. subnavicularibus, utrinque subacutato-rotundatis, 15-18 \approx 6-8, non v. 2-guttulatis, hyalinis.

Hab. ad folia viva *Copaifera* speciei cujusdam in silvis montanis de Peribeby Bras.

- *34. **Phyllachora Guatteria** (Berk.) Cooke in *Grevillea* XIII, p. 68, 7278

Dothidea Guatteria Berk. in *Herb.* n. 9082. — Amphigena; stromate convexo, atro, nitido, 5 mm. diam.; ascis clavatis; sporidiis biseriatis, ellipticis, continuis, hyalinis, 16-18 \approx 8.

Hab. in foliis *Guatteria*, Ceylon.

- *41. **Phyllachora Balansæ** Speg. *Fung. Guar. Pug.* I, n. 260. — Ma- 7279

culis majusculis, 5-20 mm. diam., expallentibus, sæpe confluentibus, indeterminatis, stromatibus matrice innatis, parvulis, globulosis, 120-250 μ . d., in maculis irregulariter suborbiculatim dispositis, densiuscule aggregatis, non v. rarius 2-3-confluentibus, utrinque prominulo-exertis, superne subpapillulatis, levibus, glabris, atris, nitentibus, coriaceo-carbonaceis, opacis, contextu indistincto; loculis solitariis in quoque stromate, nucleo albo-farctis, ad epiphyllum ostiolo minuto non v. vix prominulo donatis; ascis cylindræis v. obelavato-cylindræis (rarissime saccato-clavatis, 50 \approx 14 cum sporidiis transverse distichis), antice obtuse rotundatis, postice breviter crasseque pedicellatis, 55-60 \approx 10-12, octosporis; paraphysibus filiformibus, guttulatis densiuscule obvallatis; sporidiis transverse, rarius oblique monostichis, ellipticis, utrinque obtusissime rotundatis, 8-10 \approx 6-7, episporio tenui, protoplasmate sæpe granuloso donatis, non v. 1-3-guttulatis, hyalinis.

Hab. ad folia viva *Cedrelæ brasiliensis* in silvis subvirginis prope Guarapí Bras. — Species habitu *Ph. amphigenæ* simillima, notis tamen fructificationis rite distincta.

42. **Phyllachora Graminis** (Pers.) Fuck. — *Sacc. Syll.* II, p. 602. *Var.* 5132

Tupi Speg. *Fungi Guar. Pug.* I, p. 241. — Maculis nullis; stromatibus amphigenis, minutis, irregulariter ellipticis, 0,5-1 mm. long. 0,2-0,4 lat. mm., longitudinaliter densiuscule sparsis, non raro con-

fluentibus, matrice innatis, vix prominulis, glabris, atris, opacis, subcarbonaceis, contextu indistincto; loculis immersis, amphigenis, minutis, 100-120 μ . diam., confertiuscule constipatis, ostiolo vix manifesto donatis; ascis cylindraceis v. cylindraceo-subclavatis, antice subtruncatis crasseque tunicatis, postice breviter attenuatis crasseque stipitatis, 60-75 \approx 8-12, 8-sporis, paraphysibus filiformibus, simplicibus, plus minusve densis obvallatis; sporulis quandoque distichis quandoque oblique v. transverse monostichis, ellipticis v. ovatis, utrinque acutiuscule rotundatis, 10-12 \approx 5-6, primo granuloso-farctis, hyalinis.

Hab. ad folia viva Oplismeni, Paspali, Andropogonis specierum quarumdam prope Paraguari, Guarapí et S. Thomas. — In forma *Paspali* sporidia videntur strato mucoso tenui obvoluta.

- * 43. **Phyllachora Luzulæ** (Rabh.) Cooke in Grev. XIII, p. 64, *Sphaeria* 7280
Luzulæ Rabh. Fungi Eur. n. 533. Bot. Zeit. 1863, p. 229. — Stromatibus substriæformibus, atris, carnosis, nucleo atro; ascis clavatis; sporidiis ellipticis, utrinque rotundatis, continuis, hyalinis, 10 \approx 5.

Hab. in foliis *Luzulæ* in Germania.

- * 44. **Phyllachora Brachypodii** Roum. in Rev. Myc. 1885, p. 170. — 7281
Stromatibus vero in lineas dispositis, rarioribus; ascis minoribus, 74 \approx 6-7, paraphysibus sursum ramosis obvallatis; sporidiis ovoideis, 12 \approx 7-8.

Hab. in foliis vivis *Brachypodii pinnati*, Seine Infer. Galliæ. — Affinis *Phyll. Bromi*.

- * 45. **Phyllachora setariæcola** Speg. Fungi Guar. Pug. I, n. 279. — 7282
Maculis nullis v. vix manifestis, pallescentibus vel rubescentibus, indeterminatis; stromatibus amphigenis, ellipticis, longitudinalibus, dense sparsis, vix pulvinatis, atris, glabris, non nitentibus, subcarbonaceis, intus albis, 0,5-2 mm. long., 0,2-0,3 mm. lat., loculis dense constipatis, globulosis, 120-150 μ . diam., nigro-tunicatis, nucleo albo-farctis; ascis cylindraceo-clavatis, antice truncatis, tunica incrassatula, postice attenuato-pedicellatis, 90-95 \approx 10-12, paraphysibus paucis obvallatis, 8-sporis; sporidiis ellipticis, utrinque acutatis, rectis v. vix inæquilateralibus, 13-15 \approx 6-6,5, distichis v. rarius submonostichis, hyalinis, granuloso-farctis v. 1-guttulatis.

Hab. ad folia viva v. languida *Setariæ* speciei cujusdam in pascuis Pastoreo de Caá-guazú Bras. — Species ambigua ob loculos fusco-tunicatos, sed tunica pulpa e stromatis arcte adnata ac concreta! An melius *Gibelliæ* species? An *Ph. Setariæ* hujus spermogonium?

- * 52. **Phyllachora bambusina** Speg. Fungi Guar. Pug. I, n. 266. — 7283

Maculis nullis; stromatibus epiphyllis, linearibus, 1-2 mm. long., 0,5 lat., pulvinatulis, primo tectis dein rimose dehiscentibus, matrici longitudinalibus, facillime scutato-dimidiatis (microthyriaceis), atris, glabris, rugulosis, loculis minutis, 150-200 μ . d. nucleo albo faretis, ostiolo parum perspicuo, vix pertuso donatis; ascis cylindraceis, antice truncato-rotundatis crassiusculeque tunicatis, postice attenuatis, brevissime crasseque stipitatis, 55-60 \approx 7-8, octosporis, paraphysibus densissimis, filiformibus obvallatis; sporidiis oblique monostichis ellipticis v. elliptico-clavulatis, utrinque rotundato-acutatis, 12-13 \approx 5-5,5, 2-guttulatis medio subconstrictulis et facile postremo 1-septatis, hyalinis.

Hab. ad folia viva Bambusaceæ speciei cujusdam in silva Naranajo Bras.

91. **Phyllachora exsculpta** (Berk.) Sacc. Syll. II, p. 613, Cooke in Grevillea XIII, p. 64. — Stroma orbiculare, nigrum, margine radiatim exsculptum, ostiolis papilliformibus, centralibus; asci breviter clavati, sessiles; sporidia elliptica, continua (immatura), hyalina, circa 12 \approx 4. 5181
93. **Phyllachora Musæ** (Klotsch.) Sacc. Syll. p. 613 et 625, Cooke in Grevillea XIII, p. 64. — Asci clavati; sporidia elliptica, rotundata, continua, hyalina, 10-12 \approx 7. 5183
- * 94. **Phyllachora Taruma** Speg. Fungi Guar. Pug. I, n. 264. — Maculis epiphyllis plus minusve manifestis, expallentibus v. fusciscentibus, indeterminatis, stromatibus parvulis, subglobosis v. lenticularibus, 300-450 μ . d., in maculis irregulariter densiusculeque sparsis, sæpe confluentibus, matrice immersis in hypophyllo prominulo-exsertis, in epiphyllis non papillulatis sed epidermide punctiformi-nigrefacta adnato-tectis, glabris, subrugulosis, atris, opacis v. vix subnitentibus, carbonaceis, coriaceis, contextu indistincto; loculis 2-3 in quoque stromate e mutua pressione difformibus, 150-200 μ . d. nucleo-albo gelatinoso faretis, ostiolis discretis vel fasciculatis ad epiphyllum vergentibus donatis; ascis cito diffluentibus, cylindraceis v. cylindraceo-subclavatis, apice rotundato-truncatis, deorsum breviter crasseque attenuato-stipitatis, 65-70 \approx 10, octosporis, paraphysibus filiformibus, diffluentibus, densis obvallatis; sporidiis oblique monostichis (extimis exceptis), ellipticis, utrinque rotundatis, 12-14 \approx 6-7, sæpe leniter inæquilateralibus, hyalinis. 7284

Hab. ad folia viva Viticis (incol. Taruma) speciei cujusdam in Asuncion del Paraguay Bras.

94. **Phyllachora Trifolii** (Pers.) Fuck. Symb. myc. p. 218. Sacc. Syll. 5184

II, p. 613. — Asci clavati; sporidia elliptica, continua, hyalina, 10-12 \approx 5. (Ex speciminibus Herbarii Cl. Berkeleyi Confert Cooke in Grevillea XIII, p. 93).

* 94. **Phyllachora Lespedezæ** (Schw.) Cooke in Grevillea XIII, p. 63. 4269

Sphaeria Lesp. Schw. Syn. Amer. p. 400. Sacc. Syll. II, p. 400. — Asci clavati; sporidia elliptica, continua, hyalina 20 \approx 10.

* 95. **Phyllachora paraguayæ** Speg. Fung. Guar. Pug. I, n. 272. — 7285

Maculis nullis vel epiphyllis, parvulis, 1-2 mm. diam., atris, radianti-indeterminatis, ad hypophyllum non vel vix manifestis; stromatibus epiphyllis, leniter conoideo-lenticularibus, parvulis, 0,3-1 mm. diam., densiuscule sparsis, glabris, levibus, atris, nitentibus, 1 vel 2-5 locularibus, loculis ovatis, e mutua pressione sæpe angulosis, 120-180 μ . diam., nucleo albo farctis; ascis cylindræis vel obclavulatis, antice obtuse rotundatis crassiuscule tunicatis, postice leniter attenuatis, pedicello brevi, noduloso donatis, p. sp. 50-75 \approx 14-18, octosporis, paraphysibus densissimis, filiformibus, subdividentibus obvallatis; sporidiis di-vel tristichis, ellipticis, utrinque rotundatis sæpeque subtruncatis, 11-15 \approx 6-8, hyalinis, protoplasmate dense granuloso farctis vel crasse 1-guttulatis.

Hab. ad folia viva Luheæ divaricatæ in silvis prope Guarapí et Paraguari Bras.

* 149. **Phyllachora nervisequia** Wint. in Hedw. 1885. — Stromatibus 7286

elongato-lanceolatis, utrinque longe attenuatis, nervos sequentibus, nitide atris, loculis hemisphærice prominulis, papilla distincta, nitida præditis, dense stipatis vel 3-seriatis, sæpe confluentibus, granulatis, macula indeterminata, fusca, demum obscuriore, epiphylla, 4-5 mm. longa, plerumque 1 mm. lata insidentibus; ascis elongato-oblongis, sursum perparum, deorsum magis attenuatis, 8-sporis, 87-110 \approx 16; sporidiis subdistichis, oblongo-subclavatis, unicellularibus, hyalinis, 19-21 \approx 7-7,5; paraphysibus copiosis, filiformibus.

Hab. ad folia viva aridaque Cordylines cannifoliæ, Rockhampton in Australia (MÜLLER).

152. **Phyllachora Caricis** (Fr.) Sacc. Syll. II, p. 625. — Asci clavati; 5242

sporidia elliptica, continua, hyalina. (Confr. Cooke Grevillea XIII, p. 63).

* 153. **Phyllachora? palmicola** Speg. Fungi Guar. Pug. I, n. 271. — Ma- 7287

culis parum manifestis, sæpe totum folium ambientibus, expallentibus, circa stromata sæpe fuscescentibus; stromatibus innato-immersis, tectis, vix e parenchymate tumefactulo manifestis, atris, subcarbo-

naceis, contextu indistincto; loculis stromate immersis, globulosis, 90-100 μ . d. ostioliis crassis, superficiem epidermidis attingentibus ac leniter papillato-prominulis, levibus matricem supra stromata, minute ac confertiuscule atro-granuloso-punctulatam efficientibus, apice obtusis vel applanatis, perforatisque, nucleo mucoso, albo faretis; ascis clavatis, antice obtusatis, postice attenuato-pedicellatis, p. sp. 52 \approx 15-20, ped. 20-25 \approx 5, paraphysibus filiformibus, densiusculis obvallatis, octosporis; sporidiis inordinate distichis, elliptico-subcylindraceis, utrinque obtuse rotundatis, 18-20 \approx 9, hyalinis.

Hab. ad folia languida Coperniciæ ceriferæ et Trithrinacis brasiliensis in montuosis, Cerro Arro-ahi prope Yaguaron Bras. et prope Argentina. — Species pulchella, mox dignoscenda ostioliis tantum manifestis, amphigenis, densiuscule supra stromata exertulis, subseriatis.

- * 154. **Phyllachora leptostromoidea** Cooke in Rav. N. A. Fungi et 7288
in Grevillea XIII, p. 64. — Stromate irregulari, minuto, applanato, atro, subinde confluyente, ostioliis vix conspicuis; ascis clavatis, octosporis; sporidiis ellipticis, continuis, hyalinis, 8 \approx 3.

Hab. in frondibus Pteridis in Carolina inf. — Habitus *Leptostromatis*.

EURYACHORA Fuck. — Sacc. Syll. II, p. 628.

- * 1. **Euryachora Lathyri** (Lèv.) Cooke in Grevillea XIII, p. 65, Herb. 7289
Berk. n. 9198. *Dothidea Lathyri* Lèv. Demid. Voy. II, 106, t. 5, f. 8. — Hypo-vel epiphylla; peritheciis sparsis, hemisphæricis, prominulis, astomis, albo faretis, stromate maculæformi, irregulari, aterrimo immersis; ascis elongatis, cylindricis; sporidiis ovatis, sporidiolis duobus includentibus, 12 \approx 8.

Hab. in foliis Lathyri, Son-dagh.

Sect. 2. Phæospora Sacc.

AUERSWALDIA Sacc. Syll. II, p. 626.

2. **Auerswaldia Chamæropis** (Cooke) Sacc. Syll. II, p. 626, Sacc. et 5248
Berl. Miscell. Myc. II, p. 28, n. 125, tab. VIII, fig. 8. — Tandem ascos in hac specie reperire contigit: sunt obovati, sessiles, apice obtuse rotundati, 60-70 \approx 40-45, aparaphysati, octospori; sporidia ellipsoidea, 24-26 \approx 14-16, polysticha, ochraceo-fusca; stromata clypeata, oblonga, atro-nitida 1,5 \approx 1 mm.; loculi globosi, pauci, ostio-

lis vix manifestis. — An species hæc cum Cookeana congruat verisimile est, sed sporidia non prorsus amygdaloidea, ut Cooke describit, et asci insuper ab hoc auctore non descripti. Num *Sphaeropsis? dothideoides* Sacc. et Roum. Mich. II, p. 348, eadem res sit v. tantum status pycnidicus, ob specimina obsoleta, dubium.

Hab. in utraque pag. foliorum emort. *Chamæropis humilis*, S. Giovanni pr. Oristano Sardiniaë (MAGNUS).

- *2. **Auerswaldia palmicola** Speg. Fungi Guar. I. n. 281. — Stromatibus amphigenis, innato-superficialibus, irregulariter elongato-pulvinatis, inferne sæpius subcoarctatulis, 1-3 mm. long., 1 mm. lat. 0,5-0,8 mm. crass., longitudinalibus, superne scrupuloso-nudulatis, atris, subcarbonaceis, fragilibus, glabris, sparsis v. laxe gregariis; loculis stromate immersis, vix prominulis, globosis, 100-130 μ . diam., nucleo albo fartis; ascis clavatis, antice rotundatis, postice longe attenuato-pedicellatis, 120-130 \approx 14-16, aparaphysatis, octosporis; sporidiis distichis, elliptico-inæquilateralibus v. cymbæformibus, utrinque obtusatis, 15 \approx 6-7, primo hyalinis dein opace fuliginis, non v. 2-4-guttulatis, strato mucoso, hyalino, persistente, plus minusve crasso, obvolutis.

Hab. ad folia viva Cocos Yatay prope Pirayù in paludosis, Bras. — Species prædistinguenda, an huc *Hyp. palmicola* (B. et C.)?

- *3. **Auerswaldia disciformis** Winter in Hedw. 1884, p. 170. — Stromatibus amphigenis, rotundatis seu irregularibus, sæpe angulatis, disciformibus, erumpentibus, epidermide fissa laciniis latis, recurvatis, atratis cinctis, atris, opacis sæpe rugulosis, multilocularibus, usque 5 mm. lat. sæpe confluentibus; loculis omnino immersis, haud prominulis, dense stipatis, globosis; ascis numerosissimis, cylindraceis, deorsum parum attenuatis, 8-sporis, 100-136 \approx 14-16; sporidiis oblique monostichis seu subdistichis, ellipsoideis, continuis, olivaceis, 17-19 \approx 8-9; paraphysibus non distinctis.

Hab. in foliis vivis *Myricæ* cujusdam prope Capetown in Promontorio Bonæ Spei.

- *4. **Auerswaldia puccinioides** Speg. Fungi Guar. Pug. I, n. 282. — Maculis nullis v. parvulis, vix manifestis, pallescentibus; stromatibus superficialibus, hypophyllis v. rarius amphigenis, globosis v. hemisphærico-sublenticularibus 0,5-1,5 mm. diam., glabris, levibus (sub lente minute rugulosis), intus extusque fusco-ferrugineo-atris, sparsis v. laxe gregariis, non confluentibus, basi rotundato-coarctatis, puncto centrali tantum matrici adnatis, coriaceo-carnosis, contextu indistincto; loculis periphæricis, globosis, minutis, 140

μ . diam., pulpa fusca repletis; ascis clavato-cylindraceis, tunica crassissima, antice rotundatis, postice longe attenuato-pedicellatis p. sp. 70-80 \approx 18, ped. 50-60 \approx 5, 8-sporis, paraphysibus paucis obvallatis; sporidiis recte distichis, ellipticis v. elliptico-ovoideis, rectis v. leniter inæquilateralibus, utrinque obtusiusculis, 12-15 \approx 6, olivaceis, eguttulatis.

Hab. ad folia viva coriacea plantæ cujusdam in silva Abbocaiatè prope Villa Rica Bras. — Species pulcherrima, prædistincta, primo obtutu facillime pro *Pucciniæ* specie quadam sumenda, generibus *Hypoxylone* vel *Hypocreella* pluribus characteribus accedens.

5. **Auerswaldia? bambusicola** Speg. Fungi Guar. Pug. I, n. 280. — 7293

Stromatibus superficialibus, pulvinato-effusis, matrice arcte adnatis (non innatis nec erumpentibus), elliptico-elongatis, 1-2 mm. long. 0,7-1 mm. lat., sparsis v. 3-4-confluentibus, longitudinalibus, fusco-atris, glabris, levibus, coriaceo-subcarbonaceis, contextu subindistincto, minute celluloso-parenchymatico, fusco v. atro; loculis numerosissimis, minutis 150 μ . diam., e mutua pressione angulosis, nucleo opalescenti-albo farctis; ascis cylindraceis, apice obtuse rotundatis, tunica incrassata, postice breviter noduloseque attenuato-stipitatis, 65-70 \approx 7-10, aparaphysatis, 8-sporis; sporidiis cymbæformibus, utrinque acute obtusatis, 12-13 \approx 5, non v. minute 2-guttulatis, fuliginis.

Hab. ad culmos dejectos putrescentes *Bambusaceæ* sarmen-tosæ cujusdam in silva subvirginea Caà-guazù prope Arroyo-guazù Bras. — Species a genere nonnihil deflectens et facile generi *Hypoxylo* adscribenda; characteres tamen loculorum fere sine dubio dothideacei: an huc *Hyp. culmorum* v. *Hyp. perforatum*?

Sect. 3. *Hyalodidymæ* Sacc.

MUNKIELLA Speg. Fungi Guar. Pug. I, p. 248, (Ety. a viro sapientissimo D. EBERHART MUNK VON ROSENSCHELD Sueciæ filio, naturæ guaraniticæ sedulissimo perscrutatore). — Stromata, loculi et asci ut in *Dothidella*; sporidia elliptica v. ovoidea, recta v. inæquilateralia, bilocularia, loculo altero maximo, altero minuto, fere appendiculari, hyalina.

1. **Munkiella Caà-guazù** Speg. Fungi Guar. Pug. I, n. 283. — Macu- 7294
lis nullis; stromatibus sæpius epiphyllis, dense sparsis, pulvinulatis, plus minusve orbicularibus, 0,5-1,5 mm. diam., matrici arcte adnatis (an scutatis?), extus atris, ruguloso-gibbulosis, ostiolis pa-

rum perspicuis, cortice coriaceo, contextu indistincto, intus albocarnosulis; loculis numerosis, sublenticularibus, 150-200 μ . diam., nucleo gelatinoso, subhyalino farctis, ostiolo minuto, non vel vix papillulato donatis; ascis cylindraceutis v. cylindraceuto-subclavulatis, antice obtusissimis v. subtruncato-rotundatis crassissimeque tunicatis, postice brevissime pedicellatis, paraphysibus simplicibus, flexuosis, parvis obvallatis, 8-sporis; sporidiis recte vel oblique distichis, naviculari-elongatis v. naviculari-subclavulatis, utrinque obtusiusculis, 12-13 \approx 4-5, loculo infero minore, tertium vel quartum superioris vix æquante, hyalinis.

Hab. ad folia viva *Apocynearum* in silva subvirginea Caaguazù, nec non prope Guarapi, Bras.

2. **Munkiella guaranítica** Speg. Fungi Guar. Pug. I, n. 284. — 7295
Stromatibus maculiformibus, innato-effusis, sæpe totum folium ambientibus, epiphyllis, rarius ad hypophyllum nonnihil manifestis, non pulvinatis, fusco v. rubiginoso-atris, non v. vix granulosis, non nitentibus, cortice coriaccello, pulpa alba; loculis sparsis, lenticularibus, 150-200 μ . d., non v. vix prominulis, nucleo albo farctis, ostiolo parum perspicuo donatis; ascis cylindraceutis, antice truncato-rotundatis crasseque tunicatis, deorsum breviter crasseque attenuato-pedicellatis, 55-65 \approx 6-8, aparaphysatis, 8-sporis; sporidiis oblique monostichis v. rarius distichis, ovoideo-inæquilateralibus, 10 \approx 5, loculo supero octies quam infero longiore, hyalinis.

Hab. ad folia viva *Teconiæ* speciei cujusdam pr. Peribeby Bras. — *Var. major* Speg. l. c. n. 285: Stromatibus ut in typo sed ad hypophyllum magis perspicuis; ascis obclavatis, v. subfusoides, 70-80 \approx 10-14, pedicello nonnihil longiore ac graciliore donatis; sporidiis elliptico-ovoideis, paullo majoribus, 12-13 \approx 6, loculo supero quintuplo v. sextuplo quam infero longiore crassioreque. Ad folia viva *Tabebuia* *Avellaneda* in Cerro pelado prope Paraguari Bras.

3. **Munkiella topographica** Speg. Fungi Guar. Pug. I, n. 286. — 7296
Maculis nullis; stromatibus amphigenis, sed præcipue hypophyllis, irregulariter orbiculari-ellipticis, 0,4-2 mm. diam., sæpius confluentibus et secus nervos hinc inde gregariis, vix pulvinatis, fusco-atris, levibus, glabris, contextu indistincto, coriaceo-membranaceis; loculis confertis, immersis, pro ratione majusculis, 200-250 μ . diam., nucleo gelatinoso, albo farctis; ascis cylindraceutis, antice obtuse rotundatis crasseque tunicatis, postice modice attenuato-pedicellatis, 65-70 \approx 9-12, 8-sporis, paraphysibus filiformibus, densissimis, sub-

coalescentibus obvallatis; sporidiis monostichis v. subdistichis, ovoideo-elongatis v. subfusoido-clavulatis, antice obtusiuseulis postice acutis, 15-16 \approx 5-6, loculo supero quintuplo v. sextuplo quam infero longiore, granuloso-farctis, hyalinis.

Hab. ad folia viva Fici species cujusdam in silvis subvirginis prope Guarapi Bras.

DOTHIDELLA Speg. — Sacc. Syll. II, p. 627.

- *1. **Dothidella Berkeleyana** (Cooke) Berl. et Vogl. *Phyllachora Berkeleyana* Cooke in Grevillea XIII, p. 65, *Dothidea Baccharidis* B. et C. in Herb. Berk. n. 9161. — Amphigena, gregaria; stromate elevato, hemisphærico, 4-7 mm. diam., papillato-rugoso, opaco; loculis minutis, plurimis immersis; ascis clavatis; sporidiis ellipticis, uniseptatis, hyalinis, 25 μ . longis.

Hab. in foliis Baccharidis, Cuba.

- *2. **Dothidella endocrypta** (Mont.) Berl. et Vogl. *Phyllachora endocrypta* Cooke in Grevillea XIII, pag. 65, *Dothidea endocrypta* Mont. in Herb. Berk. n. 9115. — Epiphylla; stromate discoideo, atro, opaco, 5-8 mm. diam., loculis minutis, immersis; ascis cylindrico-clavatis, octosporis; sporidiis biserialibus, ellipticis uniseptatis, utrinque rotundatis, hyalinis, flavescens, 20 \approx 5.

Hab. in foliis, Guiana (LEPERIEUR).

- *6. **Dothidella Salvadoræ** (Cooke) Berl. et Vogl. *Phyllachora Salvadoræ* Cooke in Grevillea XIII, p. 65. — Amphigena, irregularis, prominula, atra, rugosa, hinc illinc in circulos disposita, loculis tenuibus albis; ascis clavatis, 60 \approx 14, octosporis; sporidiis ellipticis, uniseptatis, utrinque rotundatis, hyalinis, 12-14 \approx 6.

Hab. in foliis Salvadoræ persicæ, Socotra.

- *9. **Dothidella apiculata** Sacc. et Berl. F. Austral. p. 4, t. LII, f. 8. — Stromatibus epiphyllis, in maculis ochraceo-brunneis, variis laxe gregariis, epidermide tenuissima, saltem initio, velatis, pulvinato-depressis, ambitu irregulariter rotundatis, atro-nitidis, 1-1.3 mm. d., intus pauci-locellatis, ostioliis brevissimis obtusis; ascis subteretibus, apice rotundatis, breve abrupte stipitatis, 75-80 \approx 18-20 aparyphsatis, 4-sporis; sporidiis subdistichis, ovato-oblongis, utrinque rotundatis et breve obtusoque apiculatis, 1-septatis et leniter constrictis, 26-28 \approx 11-13, hyalinis.

Hab. in foliis languidis Litseæ dealbatæ, Samford Australiæ. — Affinis *Dothidellæ australi*, a qua sporidiorum fabrica statim dignoscitur.

- * 15. **Dothidella Osyridis** (Cooke) Berl. et Vogl. *Phyllachora Osyridis* 7301
Cooke in Grevillea XIII, p. 64. — Epiphylla, orbiculata, applanata, atra, punctato-rugosa, regulariter disciformis, 2-3 mm. diam., loculis numerosis, minimis; ascis clavatis, octosporis; sporidiis biserialibus, ovatis, uniseptatis, uno loculo multo minori, hyalinis, 12 ≈ 6.

Hab. in foliis vivis Osyridis compressæ, Cape of Good Hope Africa.

- * 19. **Dothidella Eugeniæ** (Thüm.) Berl. et Vogl. *Phyllachora Eugeniæ* 7302
(Thüm.) Cooke in Grevillea XIII, p. 65, *Asterina Eugeniæ* in Herb. Thüm. (non Mont.). — Amphigena; stromate orbiculari, atro, ruguloso, subdepresso, ambitu nudo, loculis minutis; ascis clavatis, octosporis; sporidiis ellipticis, utrinque rotundatis, uniseptatis, hyalinis, 18 ≈ 8.

Hab. in foliis Eugeniæ planipedis, Chili, Valdivia.

- * 27. **Dothidella? caaguazuensis** Speg. Fungi Guar. Pug. I, n. 287. — 7303
Maculis nullis v. pallescenti-subarescentibus indeterminatis; stromatibus epiphyllis, rarissime hypophyllis, hinc inde dense gregariis, bullas majusculas, sæpe totum folium ambientes efficientibus, hemisphærico-pulvinatulis, parvulis 0,5-15 mm. diam., sæpe confluentibus, granulosis, atris v. atro-velutinis cellulis elongatis, dense papilloso-prominentibus, 10 ≈ 4, contextu coriaceo-subcarbonaceo, indistincto, atro; loculis parce prominulis, globulosis, 130-140 μ . diam., dense constipatis, nucleo albo faretis, ostiolo non v. vix manifesto donatis; ascis cylindræco-subfusoides, mox fluxilibus, 8-sporis; sporidiis distichis, elongato-clavulatis, utrinque obtusatis, 18-20 ≈ 5, primo hyalinis dein dilute e hyalino fuscis v. chlorinis.

Hab. ad folia viva Compositæ cujusdam in dumetis Pastoreo de Caâ-guazû Bras.

- * 28. **Dothidella confluens** (W. et C.) Sacc. *Phyllachora confluens* 7304
Welw. et Cur. F. Angol. p. 285, t. 17, fig. 16-18. — Peritheciis spuriis e substantia folii formatis, globosis vel oblongis, in tubercula nigra, rugosa minuta confluentibus; tuberculis approximatis acervulos 12-24 mm. latos formantibus; nucleis biformibus, altero e tela floccosa sporulas nudas gerente constante, altero ascigero; sporidiis oblongis, utrinque acutiusculis, biserialibus, 1-septatis, non constrictis, subhyalinis, 17-18 ≈ 5-6.

Hab. ad foliola fruticis scandentis Leguminosæ floribus paniculatis albis præditæ, Golungo alto Angolæ.

ROSENSCHELDIA Speg. Fungi Guar. Pug. I, p. 250 (Etym. ab eximio EBERHARD MUNK VON ROSENSCHELD de re naturali meritissimo). — Stromata erumpentia, elongata. Loculi stromate totaliter exserti, globosi, dense congesti sed non confluentes. Ascii cylindranei, 8-spori, aparaphysati. Sporidia fusosideo- vel clavulato-acicularia, utrinque acuta, medio 1-septata, hyalina. — A genere *Montagnella* sporidiis hyalinis, 1-septatis distinctum, a *Dothidella* loculis exsertis, a *Munkiella* sporidiis medio septatis.

1. **Rosenscheldia paraguayana** Speg. Fungi Guar. Pug. I, n. 288. — 7305
Stromatibus hypodermicis, inter corticem et lignum late serpenticibus, innatis, primo epidermide non deformata tectis, dein rimose longitudinaliter erumpentibus, pulvinulis sæpius confluentibus, ramos ramulosque totos ambientibus; loculis primo stromate immersis dein totaliter exsertis, globosis, 250-350 μ . diam., densissime constipatis, nunquam confluentibus, glabris, levibus, vix sub lente validissima minute papillosis, tunica coriaceo-spongiosa, contextu crasse celluloso-parenchymatico (cellulis 15 μ . diam.), subopaco, atro-fuligineo; ascis cylindraneis, antice truncato-rotundatis crassiusculeque tunicatis, postice brevissime attenuato-pedicellatis, 120-130 \approx 5, aparaphysatis, 8-sporis; sporidiis fusosideis v. clavulato-acicularibus, utrinque acutissimis, 24-30 \approx 2-2,5 non v. vix inæquilateralibus, medio 1-septatis, non constrictis, loculis minutissime biguttulatis, hyalinis.

Hab. ad ramos ramulosque vivos Hyptidis speciei cujusdam in dumetis silvæ subvirginæ Caá-guazú Bras. — Species pulcherrima, habitu externo *Dimerosporium Collinsii* v. *Parodiellæ* speciem quamdam fere æmulans.

PLOWRIGHTIA Sacc. Syll. II, p. 635.

- *5. **Plowrightia Calystegiæ** (Cooke et Harkn.) Berl. et Vogl. *Dothidea* 7306
Calystegiæ Cooke et Harkness in Grevillea XIII, p. 8. — Subgrevigaria; stromatibus ellipticis, erumpentibus, atris, opacis, 1-2 \approx 1/2 mm., cellulis immersis, epidermide rupta cinctis; ascis clavatis, octosporis vel tetrasporis; sporidiis elongato-ellipticis, inordinatis, uniseptatis, nec constrictis, hyalinis, 22 \approx 7; conidiis ovalibus, continuis, 5 \approx 3, pallidis, consociatis.

Hab. in caulibus *Calystegiæ* sepium in California (HARKNESS).

- *6. **Plowrightia Balanseana** Sacc. Roum et Berl. in Rev. Myc. 1885, 7307
p. 157, t. LIV, f. 8. — Stromatibus pulvinato-orbicularibus, extus

cinereo-rufis, $\frac{1}{2}$ -2 mm. diam., loculis minutis, 100-200 μ . diam., nucleo albido et ostiolo prominulo instructis, atris; ascis cylindraceis vel cylindraceo-clavatis, breviter et crasse pedicellatis, paraphysibus filiformibus obvallatis, tunica crassa præditis, 70 \simeq 15, octosporis; sporidiis inordinate distichis vel oblique monostichis, ellipsoideis, prope imam basim (spuriæ?) uniseptatis, 15 \simeq 10, hyalinis.

Hab. in pagina inf. foliorum Bignoniæ..... Santos in Brasilia. — In pagina superiore foliorum fungillus maculas nigrescenti-griseas efficit.

*7. **Plowrightia phyllogena** Harkness Fungi Pac. Coast. p. 166. — 7308

Hypophylla, mycelio denso insidens; peritheciis discretis, minutis, nigris, rugosis, depressis; paraphysibus delicatis; ascis cylindraceis, 120 \simeq 16, 8-sporis; sporidiis ovato-oblongis, hyalinis, prope basim septatis, 16 \simeq 8.

Hab. in ramulis Amelanchieris alnifoliæ, Sierra Nevada Californiæ.

SCIRRHIA Nits. — Sacc. Syll. II, p. 635.

*1. **Scirrhia Groveana** Sacc. Misc. Myc. II, p. 23, tab. IX, f. 18. — 7309

Stromatibus linearibus, plurimis, in utraque foliorum pagina parallele gregariis, epidermide initio velatis, 1-1,5 mm. longis, atris; loculis confertis subglobosis; ostiolis breve papillato-prominulis, pertusis; ascis fasciculatis, fusoideis, sessilibus, utrinque obtusiusculis, 60 \simeq 12, aparaphysatis; sporidiis distichis, oblongis, v. subclavulatis, 14-16 \simeq 3,5-4, 1-septatis, non constrictis, nubilosus, hyalinis.

Hab. in foliis languidis Typhæ latifoliæ, sociâ *Leptosphaeriâ Michotii*, Langle Pool prope Birmingham Britanniæ, (W. B. GROVE).

*2. **Scirrhia infuscata** Winter in Hedwigia 1886, p. 102. — Stro- 7310

matibus amphigenis, seriatis, lineas breves, valde prominentes, usque 2 mm. longas, atras formantibus; loculis parvis, monostiche denseque stipatis, subglobosis, ostiolo papilliformi, vix prominulo præditis, 100-180 μ . latis; ascis cylindraceis, deorsum parum attenuatis, fere sessilibus, 8-sporis, 56-65 \simeq 9-10; sporidiis subdistichis, oblongo fusoideis, utrinque attenuatis, sed rotundatis, inæquilateralibus, medio uniseptatis, non constrictis, hyalinis, 16-18 \simeq 3,5-4; paraphysibus tenuissimis, filiformibus.

Hab. in foliis Gramineæ cujusdam, St. Thomè Afr. Occid.

Sect. 4. Phæodidymæ Sacc.

DOTHIDEA Fr. — Sacc. Syll. II, p. 639.

- *1. **Dothidea Loniceræ** Cooke in Grevillea XIII, p. 66. — Erumpens, 7311
suborbicularis, sæpe confluens, pulvinata, planiuscula, atra 1 mm.
diam., loculis sparsis, periphæricis; ascis clavatis, octosporis; spo-
ridiis sublanceolatis, medio constrictis, uniseptatis, fuscis, 22-24 \approx 9.

Hab. in sarmentis Loniceræ sempervirentis in Pensyl-
vania Amer. bor. (MICHENER).

- *2. **Dothidea viridispora** (Cooke) Berl. et Vogl. *Phyllachora viridi-* 7312
spora Cooke in Grevillea XIII, pag. 65. — Epiphylla, sparsa,
orbicularis, hemisphærica, 1-2 mm. diam., atra, rugosa, intus alba;
ascis clavatis, octosporis; sporidiis biserialibus, ellipticis, diu con-
tinuis, binucleatis, hyalino-virescentibus, 16-18 \approx 7,5-8, demum uni-
septatis.

Hab. in foliis vivis, Jamaica (D. MORRIS).

- *4. **Dothidea Artemisiæ** (Schw.) Cooke in Grevillea XII, p. 5, *Sphæ-* 1544
ria Artemisiæ Schw. Amer. bor. n. 1227, *Nummularia Artemi-*
sicæ Sacc. Syll. I, p. 401.

- *16. **Dothidea Munckii** Speg. Fung. Guar. Pug. I, n. 298. — Macu- 7313
lis nullis vel hypophyllis, parvulis, fuscescentibus, indetermina-
tis; stromatibus epiphyllis, sparsis, innatis, tecto-erumpentibus,
irregulariter elongatulis, 0,5-2,5 mm. long., 0,5-1 mm. lat., pul-
vinato-prominulis, glabris, subcarbonaceis, extus atris, intus fu-
scis; loculis densis, stipatis, in stromate leniter prominulis, ir-
regulariter globosis, 180-300 μ . diam., ostiolo papillulato, vix
perspicuo, nucleo fusco faretis; ascis cylindræo-subclavatulis, an-
tice obtuse rotundatis, crassiuscule tunicatis, postice breviter at-
tenuatis, 65 \approx 8-9, paraphysisibus parcis obvallatis; sporidiis distichis
v. oblique monostichis, ovoideis, utrinque rotundatis, superne sæpe
subtruncatis, 8-9 \approx 3,5-4, 1-septatis, septo nonnihil excentrico, lo-
culis crasse 1-guttulatis, supero fere altero duplo majore, fuliginéis.

Hab. ad folia viva Quebrachiæ spec. cujusdam in silvis sub-
virginéis prope Guarapí Bras.

Sect. 5. Phragmosporæ Sacc.

MONTAGNELLA Speg. — Sacc. Syll. II, p. 646.

- *1. **Montagnella Castagnei** Speg. Fungi Guar. Pug. I, n. 290. — Ma- 7314

culis nullis v. vix manifestis, pallescentibus; stromatibus amphigenis, sæpius tamen hypophyllis, subneurophilis, innato-erumpentibus, parvulis, 0,5-1 μ . diam., irregulariter orbicularibus, sparsis, rarius aggregatis v. confluentibus, subpuccinioideis, pulvinatulis, primo tomento albo tectis (an status conidici residuis?), dein nudis, fusco-rubiginosis, postremo fusco-atris, granulosis (e loculis prominulis), coriaceis, contextu indistincto, opaco; loculis dense constipatis, ad tertium vel medium usque prominulis, ovato-subconicis, 150-200 μ . diam., nucleo albo faretis; ascis sursum rotundatis crasseque tunicatis, deorsum breviter attenuato-pedicellatis, paraphysibus filiformibus, simplicibus, densis obvallatis, 8-sporis; sporidiis distichis, elliptico-elongatis v. subfusoides, utrinque acutiuscule rotundatis, 18-20 \approx 4-5, rectis v. leniter inæquilateralibus, primo medio 1-septato-constrictis, loculis majuscule 2-guttulatis, utrinque appendice globuliformi, parvula ornatis, hyalinis, dein exappendiculatis, 3-septatis, ad septa non constrictis, dilute fumosis.

Hab. ad folia viva Eupatorii tinctorii in uliginosis prope Peribebuy Bras.

- *2. **Montagnella tumefaciens** (E. et Harkn.) Berl. et Vogl. *Sphæria* 7315
tumefaciens Ell. et Harkn. in Journ. of Myc. 1886, pag. 41. — Peritheciis crustaceis, hemisphæricis, $\frac{1}{3}$ - $\frac{1}{5}$ mm. diam., nigris, rugosis, stipatis, crusta stromatica per rimas longitudinales corticis erumpente, seriesque dense compactas, continuas v. interruptas efficiente, 3-5 cm. longas unitis; ascis 100-120 \approx 10-12, subcylindraceis, copiose paraphysatis; sporidiis sæpe distichis, cylindraceo-fusoides, leniter curvis, 3-septatis, lutescentibus, 25-30 \approx 6-7.

Hab. in ramulis emortuis Artemisiæ californicæ in Monte Diabolo et Cala Amer. bor. — Habitu *Dothideæ morbosæ* similis a qua peritheciis seriatim dispositis, nec non sporidiorum fabrica differt. « An *Rhopoglyphus?* ».

HOMOSTEGIA Fuck. — Sacc. Syll. II, p. 649.

- *1. **Homostegia Pelvetii** (Hepp) Linds. Trans. Roy. Soc. Ed. XXIV, 7316
 p. 450, Cooke in Grevillea XIII, p. 66. *Celidium Pelvetii* Hepp Eur. n. 589. — Ascis clavato-saccatis, 45 \approx 12, octosporis; sporidiis ellipticis, uniseptatis, hyalinis v. subluteolis, 11 \approx 6.

Hab. parasitice in *Sticta aurata* in Germania et Britannia.

- *3. **Homostegia Albizziæ** (Cooke) Berl. et Vogl. *Phyllachora Albiz-* 7317
ziæ Cooke in Grevillea XIII, p. 65, *Dothidea viventis* var. *Albizziæ* Cooke. — Epiphylla, minuta, convexa, nitida, vix 1 mm.

diam.; loculis paucis, 1-4; ascis clavatis, breviter stipitatis; sporidiis lanceolatis, medio constrictis, uniseptatis, binucleatis, demum triseptatis, hyalinis, 25-27 \approx 7.

Hab. in foliis vivis Albizziæ, Natal (J. M. Wood). — «Quum sporidia in typo *Homostegia* sint colorata, sectio *Roumegueria* forte genus distinctum constituere meretur».

- *5. **Homostegia dendritica** (Cooke) Berl. et Vogl. *Phyllachora dendritica* Cooke in Grevillea XIII, p. 65. — Epiphylla, subrotunda, elliptica vel confluens, convexa, atra, nitida, in maculas dendroides collecta, præcipue supra nervulos foliorum disposita, intus alba; cellulis paucis; ascis clavatis; sporidiis sublanceolatis, medio leniter constrictis, uniseptatis, binucleatis, demum triseptatis, hyalinis, 20-22 \approx 5.

Hab. in foliis coriaceis in Brasilia.

EURYTHECA De Seynes — Sacc. Syll. II, pag. 651.

- *1. **Eurytheca? abyssinica** Pass. in litt. Martelli in Flor. Bog. p. 145. — Stromatibus superficialibus, oblongis vel globulosis, sæpius depressis, rugulosis, atris, intus albidis, loculis stipatis, immersis, monoascis, ascis obpiriformibus, membrana apice incrassata, octosporis, 20-22 \approx 13-16; sporidiis subtristichis vel conglobatis, oblongo-cuneatis, hyalinis, primo medio septatis, dein bi-triseptatis.

Hab. in ramis corticatis, Keren Africæ (BECCARI).

Sect. 6. Scolecosporæ Sacc.

OPHIODOTHIS Sacc. Syll. II, p. 653.

- *1. **Ophiodothis tarda** Harkn. New Calif. Fungi pag. 26. — Hypophylla, in maculis irregularibus, angularibus, 3-4 mm. latis, sæpius confluentibus; stromatibus papillatis, nitentibus, nigris; ascis 8-sporis, cylindræis, basi abrupte truncatis bulbosisque, curvis, 57 \approx 9; sporidiis linearibus, pluriguttulatis, 42 \approx 2.

Hab. in foliis *Rhois diversilobæ*, San Francisco Californiæ.

- *2. **Ophiodothis paraguariensis** Speg. Fungi Guar. Pug. I, n. 292. — Maculis minutis, 1-15 mm. diam., epiphyllis, rarius amphigenis, indeterminatis, arescenti-fuscis v. cinereo-atris, dense gregariis, rarius confluentibus, substromaticis; stromatibus minutis, epiphyllis, rarius hypophyllis, subepidermicis, cum macularum substantibus confluentibus, globulosis, minutis, parce prominulis, 100-120 μ . diam., atris, glabris, subnitentibus, 1-ocularibus; loculis minutis, e glo-

boso lenticularibus, 80-100 μ . diam., solitariis, nucleo albo farctis, ostiolo minuto non v. vix papillulato-perforato donatis; ascis fusoides v. fusoides-subclavatis, sursum truncatis crassissimeque tunicatis, late perforatis, deorsum attenuatis, pedicello parvulo, noduloso instructis, 50-52 \approx 7-9, aparaphysatis vel pseudoparaphysatis, 8-sporis; sporidiis fusoides-acicularibus, utrinque acutato-rotundatis, rectis v. leniter curvulis, 40-45 \approx 2-2,5, primo multiguttulatis, dein obscure polyblastibus, (an pluriseptatis?), hyalinis.

Hab. ad folia viva Anonaceæ cujusdam in silvis prope Paraguarî Bras.

- *3. **Ophiodothis Balansæ** Speg. Fungi Guar. Pug. I, n. 291. — Maculis stromaticis, amphigenis, suborbicularibus, 5-15 mm. diam., atris, indeterminatis; stromatibus innatis (in maculis vel circum circa) densiuscule gregariis, suborbicularibus, rarius confluentibus, vix prominulis, sæpius 1-ocularibus, coriaccis, contextu indistincto, atro, opaco; loculis e globuloso lenticularibus, 200-300 μ . d., ostiolo parum manifesto, nucleo albo farctis; ascis obclavatis, apice attenuato-truncatis, leniter incrassato-tunicatis, basi subabrupte coarctatis, minute noduloseque pedicellatis, 65 \approx 10, aparaphysatis, 8-sporis; sporidiis fasciculato-polystichis, acicularibus, utrinque attenuato-acutatis, 35-40 \approx 2,5, lenissime curvulis, medio 1-septatis, non constrictis, loculis granuloso farctis, hyalinis. 7322

Hab. ad folia viva Bignoniaceæ cujusdam in silvis secus flumen Pirayû Bras. — Species ob sporidia bilocularia inter genera *Ophiodothis* et *Dothidella* nutans.

Fam. 6. Microthyriaceæ FR.

Sect. 1. Hyalosporæ. Sacc.

MYIOCOPRON Speg. — Sacc. Syll. II, p. 659.

- *12. **Myiocopron Palmarum** Wint. in Hedw. 1885, p. 25. — Peritheciis superficialibus, dense sparsis seu gregariis, scutiformibus, orbicularibus vel ellipticis, ostiolatis, atris, opacis, contextu membranaceo, fusco, parenchymatico, cellulis marginalibus plerumque bifidis, 120-260 μ . diam.; ascis ovatis, obovatis vel e basi ventricosa sursum parum attenuatis, sessilibus, 8-sporis, 40-50 \approx 23-26; sporidiis conglobatis, subovatis, unicellularibus, hyalinis, intus granulosis, 16-17 \approx 8-9; paraphysibus parcissimis, filiformibus. 7323

Hab. in partibus exsiccatis foliorum *Palmarum*, pr. S. Francisco Bras. (E. ULE).

* 13. **Myiocopron? crustaceum** Speg. Fungi Guar. Pug. I, n. 293. 7324

— Maculis nullis; peritheciis amphigenis, sæpius hypophyllis, densissime aggregatis, subconfluentibus, late folia crusta fusco-atra, continua obtegentibus ac nigrifacientibus, discoideis, dimidiato-scutatis, parvulis, 150-180 μ . diam., coriacellis, contextu radiante, subindistincto, ostiolo parum conspicuo, subrotunde v. stellatim dehiscente donatis; ascis subsaccatis, ovatis v. obovatis, apice obtusatis, basi abrupte coarctatis minuteque stipitatis, 40-50 \simeq 15-20; paraphysibus simplicibus, parcissimis immixtis, 8-sporis; sporidiis oblique distichis, ovoideis v. clavulatis, leniter inæquilateralibus, utrinque obtusiusculis, non v. medio subcoarctatulis (an demum 1-septatis?) granuloso-farctis, hyalinis, 15-20 \simeq 7-8.

Hab. ad folia viva *Palmarum* in silvis uliginosis prope *Peribebuy* Bras.

PIPTOSTOMA Berk. et Br. Fungi of Ceylon n. 1135 (Etym. *pipto* cado et *stoma* ostiolum). — Perithecia minuta, plana; sporidia oblonga, curvula. — Genus hoc a *Piptostomo* Lév. Ann. Sc. Nat. 1846, p. 65, vero est distinguendum quia ascigerum (Cfr. Sacc. Syll. III, p. 183).

1. **Piptostoma spilotum** Berk. et Br. Fung. of Ceylon. n. 1135. — 7325

Minutum planum, cito circumscissum; ascis lanceolatis; sporidiis oblongis, curvulis, 6 μ . long.

Hab. in insula Ceylon.

Sect. 2. Phæosporæ Sacc.

VIZELLA Sacc. Syll. II, p. 662.

* 1. **Vizella Hieronymi** Wint. in Hedw. 1885, p. 261 — Peritheciis epi- 7326

phyllis, plerumque 2-8-constipatis, greges minutos, rotundos vel irregulares formantibus, depresso hemisphærico-conoideis, atris, nitidis, 210-240 μ . latis; ascis oblongo-cylindræis, in stipitem brevem attenuatis, 8-sporis, 65-75 \simeq 12; sporidiis subdistichis vel conglobatis, elongato-ellipticis vel suboblongis, deorsum parum angustatis, utrinque rotundatis, fuscis, supra medium linea alba (septo?) notatis, ad basim appendicula brevi, verruciformi, fere hyalina vel fusca præditis, 12-14 \simeq 5-6.

*Descriptio
specimen Sacc.
ad Hieronymi
pertinet*

Hab. ad Trichilia Hieronymi folia viva, Argentina, Tabacal cerca Oran (Кѣск).

Sect. 3. Hyalodidymæ Sacc.

MICROTHYRIUM Desm. — Sacc. Syll. II, p. 662.

*1. **Microthyrium paraguayense** Speg. Fungi Guar. Pug. I, n. 294. — 7327

Maculis nullis; peritheciis epiphyllis, sparsis v. hinc inde laxe gregariis, parvulis, 150-160 μ . diam., orbicularibus, dimidiato-scutatis, atris, membranaceis, contextu eximie subparenchymatico-radiante, ostiolo minuto, rotundo donatis; ascis cylindraceo-obclavatulis, apice truncato-rotundatis crasseque tunicatis, basi coarctatis minute nodoseque stipitatis, 30-32 \times 8-10, paraphysibus simplicibus, parvis obvallatis, 8-sporis; sporidiis distichis, clavulatis, medio 1-septatis, constrictis, loculo supero crassiore subglobosoque, infero conico, 7-8 \times 2, hyalinis.

Hab. ad folia viva Sapindaceæ cujusdam in silvis pr. Guarapi Bras.

*2. **Microthyrium thyriscum** Schulz. et Sacc. in Rev. Myc. 1884, 7328

Schulz. Ill. fung. Slav. n. 5. — Peritheciis punctiformibus, atris dimidiatis, impertusis, (semper?), 250-300 μ . diam., applanatis superficialibus; ascis obovato-saccatis, circ. 60 \times 30, aparaphysatis, subsessilibus, apice rotundatis, octosporis; sporidiis 3-stictis obovatis, constricto 1-septatis, loculo sup. obtusiore, 19 \times 10, hyalinis.

Hab. in ramis corticatis junioribus quercinis, Eperjës Slavoniæ. — Ascis sporidiisque crassis mox dignoscenda species.

*3. **Microthyrium arcticum** Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 15, t. I, f. 16. — 7329

Peritheciis in foliis aridis amphigenis, superficialibus, vulgo gregariis, imo dense confertis, dimidiatis, minutis, 60-100 μ . diam., aterrimis, plus minus nitentibus, rugosis, centro perforatis; ascis 35 \times 7; sporidiis distichis, hyalinis, bacilliformibus, medio septatis.

Hab. in foliis aridis Potentillæ fragiformis, Nowaja Semlja.

*4. **Microthyrium idæum** Sacc. et Roum. in Rev. Myc. 1883, tab. 40, 7330

f. 14. — Peritheciis epiphyllis, dimidiato-applanatis, 250 μ . diam. atris, centro pertusis, margine hyphis fuliginis, remote septatis fimbriatis, contextu perithecorum minute denseque parenchymatico subradiato; ascis fusoideo-obclavatis brevissime stipitatis spurie (?) paraphysatis, 50-55 \times 12-15, octosporis; sporidiis 2-3-stichis, clavu-

latis, infra medium, 1-septatis, vix constrictis, loculo superiore multo majore, 18-22 \approx 4, olivaceis.

Hab. in foliis *Vaccinii vitis-idææ* in Gallia.

- *8. **Microthyrium mauritanicum** Mont. Syll. p. 261, Sacc. Syll. II, 5374
p. 664, Bacc. et Avett. Cont. Stud. myc. rom. p. 20, t. XVI, f. 7.
— Perithecia sparsa vel interdum gregaria, punctiformia, dimidiato-scutata, obscure radiatim contexta, ostiolo rimoso dehiscencia, 100 μ . lata; asci obovato-oblongi, oblique et brevissime stipitati, ad apicem versus incrassati, 19 \approx 13, 8-spori; sporidia tristicha, elongata, curvula vel recta, hyalina, ad medium septata, 12 \approx 3.

Hab. in culmis *Arundinis Donacis* ad sepes prope Roma Ital. merid.

- *11. **Microthyrium pulchellum** Speg. Fungi Guar. Pug. I, n. 295. — 7331
Maculis nullis; peritheciis hypophyllis, densissime congestis, maculas crustaceas, irregulariter orbiculares, 2-3 mm. diam., sparsas, non confluentes, atras v. sordide glaucescenti-atras, non vel vix subpulvinatulas, subpapillosulas efficientibus, parvulis, 130-180 μ . diam., dimidiato-scutatis, orbicularibus, sæpe confluentibus ac e mutua pressione angulosis, atris, minutissime rugulosis, poro parum perspicuo pertusis, contextu dense prosenchymatico-radiante, pulchre concentrice zonato, fuligineo-atro, subopaco; ascis cylindraceo-clavatis, brevissime stipitatis, 30 \approx 10, aparaphysatis?, 8-sporis; sporidiis primo fusoido-clavulatis, medio 1-septatis, non constrictis, apicibus appendice minutissima, globosa v. penicillata ornatis, dein clavulatis ad septum constrictis, utrinque exappendiculatis obtusiusculisque, hyalinis.

Hab. ad folia viva *Blechni spec. cujusdam* in silva Caaguazù Bras.

- *14. **Microthyrium caaguazuense** Speg. Fungi Guar. Pug. I, n. 296. 7332
— Subiculo tenuissimo, laxe arachnoideo, fusco, amphigeno, utrinque folium sæpe totum ambiente; peritheciis hinc inde in subiculo sparsis, dimidiato-scutatis, 150-200 μ . diam., membranaceo-coriacellis, fusco-atris, ostiolo vix perspicuo perforatis, ambitu fimbriatulis, contextu breviter prosenchymatico, periphærico pel-lucido, centrali opaco, olivaceo-fuligineo; ascis ovatis v. ellipticis, tunica modice incrassatula, utrinque acutato-rotundatis, crasse brevissimeque pedicellatis, 65 \approx 26, aparaphysatis, 8-sporis; sporidiis inordinatis, clavulatis, 25 \approx 12, medio 1-septato-constrictis, loculo supero subgloboso, infero conoideo, utrinque obtusiusculis, hyalinis.

Hab. ad folia viva Myrtaceæ cujusdam in silva subvirginea, Caá-guazú vocata, Bras.

Sect. 4. Phæodidymæ Sacc.

SEYNESIA Sacc. Syll. II, p. 668.

1. **Seynesia grandis** (Niessl) Winter in Hedwigia 1886, p. 107, *Mi-* 7333
crothyrium grande Niessl in Rab. Fungi Europ. n. 2467. — Peritheciis gregariis, sæpissime confluentibus, superficialibus, sine mycelio distincto, e basi suborbiculatis, planis, parum convexis, disciformibus seu clypeiformibus, centro pertusis, ambitu definito, radiante, atris, opacis, rugulosis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; ascis oblongis, rarius magis elongatis, fere sessilibus, 8-sporis, 80-90 \approx 20-25; sporidiis inordinatis vel subdistichis, oblongis vel oblongo-subclavatis, medio uniseptatis et valde constrictis, utrinque rotundatis, rarius acutiusculis, dilute fuscis, cellula superiori latiori, sæpe inæquilateralibus, 24-30 \approx 9-10.

Hab. ad scapos aridos Calami spec., Calcutta Ind. (Kurz).

2. **Seynesia Balansæ** Speg. Fungi Guar. Pug. I, n. 297. — Maculis 7334
nullis; subiculo tenuissimo, sæpius epiphylo, orbiculariter expanso, sparso vel sæpe totum folium ambiente, atro, velutino, hyphis simplicibus vel ramosis, flexuosis repentibus vel vix suberectis, densiuscule septulatis, gracilibus, 3-4 μ . crass., fuliginis composito; peritheciis in subiculo laxè sparsis, hemisphærico-dimidiatis, parvulis, 100-200 μ . diam., atris, levibus, glabris, tenui membranaceis, contextu eximie prosenchymatico-radiante, margine in hyphas tenuiores, flexuosas, simplices vel furcatas, repentis, gracillimas producto, olivaceo, ostiolo fimbriato, stellatim dehiscente (præcipue sub pressione) donatis, 8-16-ascos gerentibus; ascis subrotundato-piriformibus, antice obtusissime latissimeque truncato-rotundatis crasseque tunicatis, postice cuneatis, brevissime nodoseque stipitatis, 30-40 \approx 20-32, octosporis aparaphysatis; sporidiis conglobatis, ovatis, medio 1-septatis, validule constrictis, utrinque obtusis, 15-17 \approx 7-9; loculis non v. 1-guttulatis, supero crassiore, primo hyalinis dein fuliginis et subopacis.

Hab. ad folia viva arborum vulgatissima in silvis prope Guarapí Bras. — *forma Myrtacearum*: subiculo sæpius epiphylo, denso; peritheciis membranaceis, 100-150 μ . diam.; ascis piriformibus, 30-35 \approx 25-27; sporidiis elliptico-clavulatis, 15 \approx 6. — *f. Maccluræ*: subiculo sæpius epiphylo, denso; peritheciis membranaceis

80-100 μ . diam.; ascis piriformibus, 30 \approx 25; sporidiis ovoideis, 15 \approx 7. — *f. Acanthacearum*: subiculo amphigeno sparso; peritheciis membranaceis, 60-70 μ . diam.; ascis piriformibus, 25-30 \approx 20-22; sporidiis elliptico-ovoides, 15 \approx 7-8. — *f. Solani* sp. cuj.: subiculo epiphylo, laxe aggregato; peritheciis coriacellis, 150-200 μ . diam.; ascis piriformibus, 35-40 \approx 25-32; sporidiis ovoideis, 14-16 \approx 7-8. — *f. Solani verbascifolii*: subiculo epiphylo, laxo; peritheciis membranaceis, 100-120 μ . diam.; ascis globoso-ovoides (an muco immersis?), 30 \approx 20-25; sporidiis elliptico-ovoides, valide constrictis, 18 \approx 10.

3. **Seynesia paraguayensis** Speg. Fungi Guar. Pug. I, n. 300. — 7335
 Maculis hypophyllis, parvulis, 3-5 mm. indeterminatis, fuscis; subiculo maculiformi, 2-5 mm. diam., crustaceo-subvelutino, atro, orbiculari, hinc inde sparso, ex hyphis laxe intricatis, gracilibus, simplicibus v. parce ramosis, 3-5 μ . crassis, parce septulatis, ramulis densis, breviusculis, 9-11 \approx 4-5, distichis (fere ut in *Meliosis*), olivaceis ornatis composito; peritheciis scutato-dimidiatis, 100-150 μ . diam., atris, opacis, glabris, primo astomis dein stellatim dehiscentibus, contextu indistincto; ascis globosis, 30-40 μ . diam., 6-8 in quoque perithecio, aparaphysatis, 8-sporis; sporidiis conglobatis, ellipticis, rectis, medio 1-septatis, leniter constrictis, utrinque obtusiusculis, 20-25 \approx 10, loculis crasse 1-guttulatis, supero majore crassioreque, opace fuligineis.

Hab. ad folia viva Bignoniaceæ spec. cujusdam in silvis prope Peribeby Bras.

4. **Seynesia guaranítica** Speg. Fungi Guar. Pug. I, n. 299. — 7336
 Subiculo epiphylo, rarissime parce hypophyllo, laxe arachnoideo, tenuissimo, subcrustaceo, atro, ex hyphis repentibus, flexuosis, septatis, 4-5 μ . crass., ramosis composito, folium sæpe totum ambiente; peritheciis scutato-dimidiatis, hinc inde densiuscule aggregatis, parvulis, 150 μ . diam., atris, astomis, lacero-dehiscentibus, margine densissime ac tenuiter reticulato-fimbriatis, contextu eximie prosenchymatico-radiante, olivaceo, subopaco; ascis non visis; sporidiis ellipticis v. vix inæquilateralibus, medio 1-septatis, leniter constrictis, utrinque obtusiuscule rotundatis, 25 \approx 10, loculis subæqualibus, opace fuligineis non v. 1-guttulatis.

Hab. ad folia viva Trichiliæ spec. cujusdam in silvis prope Piragù Bras.

5. **Seynesia piraguensis** Speg. Fungi Guar. Pug. I, n. 298. — Ma- 7337
 culis nullis; peritheciis sparsis vel hinc inde laxe gregariis, sub-

culo deficientibus, atris, dimidiato-scutatis, 200 μ . diam., per ætatem medio stellatim dehiscentibus, contextu eximie radiante, fuligineo, subopaco; ascis globosis, 45 μ . diam., aparaphysatis, 8-sporis; sporidiis conglobatis, ellipticis v. elliptico-ovatis, utrinque obtusiusculis, 20-22 \approx 9-10, medio 1-septato-constrictis, rectis vel inæquilateralibus, loculis vix inæqualibus, primo hyalinis dein dilute fuscis.

Hab. ad folia viva Laurinææ cujusdam prope Piragù Bras.

Sect. 5. Phragmosporæ Sacc.

SCUTELLUM Speg. — Sacc. Syll. II, p. 668.

*1. **Scutellum guaraniticum** Speg. Fungi Guar. Pug. I, n. 301. — 7338

Maculis nullis; subiculo parcissimo plus minusve effuso, fusco, innato, fere lichenino, conidiis tamen carente; peritheciis paucis, epiphyllis, hinc inde 3-5 laxè aggregatis, discoideis, dimidiato-scutatis, parvulis, 130-160 μ . diam., atris, coriaceis, glaberrimis, nitentibus, ostiolo minuto, rotundo, 15 μ . diam., perforatis, contextu indistincto, atro, opaco; ascis cylindræis, antice truncato-rotundatis, crassissime tunicatis, postice attenuatis, breviter crasseque pedicellatis, 50 \approx 15-18, aparaphysatis, 8-sporis; sporidiis distichis, ovoideis, sursum rotundato-subtruncatis, postice acutiuscule obtusatis, loculis duobus superis fuligineis, supremo centrali duplo longiore, infimo hyalino, fere appendiculari, 12-14 \approx 5-6.

Hab. ad folia viva Pilocarpi pinnatifoliæ in silvis subvirginæis prope Paraguari Bras.

MICROPELTIS Mont. — Sacc. Syll. II, p. 669.

1. **Micropeltis applanata** Mont. — Sacc. Syll. II, p. 669, ***M. depauperata** Sacc. et Berl. Misc. Myc. II, pag. 6. — 5390

Peritheciis amphigenis, $\frac{1}{3}$ mm. diam., convexulo-applanatis, atris, dein centro hiantibus; contextu subradiante; ascis oblongo-clavatis, breve, sæpe oblique stipitatis, apice rotundatis crasseque tunicatis, 45-50 \approx 18-21, 4-6-sporis; sporidiis fusoideis, curvulis, initio leniter mucosis, 18-20 \approx 4,5-5,5, spurie 1-2-septatis, hyalinis.

Hab. in foliis languidis Eucalypti tereticornis, Logan Australiæ.

*1. **Micropeltis æruginosa** Winter in Hedwigia 1886, pag. 100. — 7339

Peritheciis epiphyllis, sparsis, orbiculari-scutatis, depressis, ambitu mycelio densissime intertexto, ex hyphis ramosissimis, tenuissimis,

æruginosis formato anguste cinctis, vertice irregulariter dehiscen-
tibus, intense æruginosis, 360-470 μ . diam.; ascis elongatis, utrin-
que attenuatis, apice rotundatis, basi stipitifirmi, 8-sporis, 140-
175 \approx 21-24; sporidiis inordinatis, elongato-fusoideis, curvulis, deor-
sum magis longeque attenuatis, 10-12-septatis, ad septa constrictis,
hyalinis, cellula 5 vel 6, latissima, 60-74 \approx 9-10,5.

Hab. in foliis vivis, St. Thomè Afr. occ.

- *2. **Micropeltis viridatra** Winter in Hedwigia 1886, pag. 99. — Pe- 7340
ritheciis epiphyllis, sparsis, scutiformibus, perparum convexis, spu-
rie ostiolatis, sordide viridi-atris, ex hyphis valde ramosis inter-
textis formatis, ambitu mycelio hyalino, ex hyphis repentibus, ramosissimis
contexto anguste cinctis, 300-340 μ . diam.; ascis oblongis,
utrinque attenuatis, breviter stipitatis, 8-sporis, 50-60 \approx 17-18;
sporidiis inordinatis, elongato-clavatis, curvatis, utrinque rotunda-
tis, 8-septatis, hyalinis, 17-24 \approx 4,5; paraphysibus parvis, tenuissi-
mis, filiformibus.

Hab. ad folia viva Phaseoli, St. Thomè Afr. occ.

Sect. 6. Closterosporæ Sacc.

PEMPHIDIUM Mont. — Sacc. Syll. II, p. 670.

- *1. **Pemphidium Pini** Karst. in Hedw. 1884, n. 1, p. 6, Rev. atque Synop. 7341
Ascom. fenn. p. 88. — Peritheciis hic illic aggregatis, innato-su-
perfacialibus, applanatis, scutiformibus, papillatis, atris, opacis, exi-
guis; ascis fusoideo-clavatis, circ. 35 \approx 7; sporidiis octonis, disti-
chis, elongato-fusoideis, guttulatis, hyalinis, circ. 9 \approx 2 (maturis
haud visis); paraphysibus sat numerosis, filiformibus, bene discre-
tis, gracillimis.

Hab. in cortice Pini silvestris ad Mustiala Fennæ.

Sect. 7. Dictyosporæ Sacc.

SACCARDINULA Speg. Fungi Guar. Pug. I, p. 257. — (Etym. a cla-
vissimo viro P. A. SACCARDO de Mycologia maxime merito). — Pe-
rithecia simplicia, microthyriacea. Asci pauci globosi v. ovati, 8-
spori, paraphysati. Sporidia muralia, hyalina.

1. **Saccardinula guaranifica** Speg. Fungi Guar. Pug. I, p. 302. — 7342
Hypophylla glomerulatim dense sparsa; peritheciis maculis stro-
maticis, minutissimis, 200-250 μ . diam., atris insidentibus, 1-3-ag-
gregatis, hemisphæricis, dimidiato-scutatis, parvulis, 80-100 μ . d.,

membranaceo-coriacellis, glabris, ostiolo minutissimo, sæpius per ætatem stellatim lacero donatis, contextu circa ostiolum indistincto, coriaceo-opaco, atro, ambitu parenchymatico-globuloso, seriatim radiante, olivaceo-fuligineo præditis; ascis globosis v. ovoideis, apice crasse tunicatis, pedicello nullo vel vix umboniformi, 15-20 \approx 15-19, aparaphysatis, 8-sporis; sporidiis ellipticis vel elliptico-ovatis, rectis v. leniter curvulis, medio 1-septatis, non v. vix constrictis, loculis horizontaliter et verticaliter 1-septatis, supero nonnihil crassiore brevioraque, utrinque obtusis, 10-11 \approx 5, hyalinis.

Hab. ad folia Ilicis theezantis in silva Borja prope Villa Rica Bras.

Fam. 7. **Lophiostomaceæ** Sacc.

Sect. 2. **Phæodidymæ** Sacc.

SCHIZOSTOMA Ces. et De Not. — Sacc. Syll. II, pag. 673.

- *1. **Schizostoma microsporum** Pass. in litt. Martelli in Flor. bog. ⁷³⁴³ pag. 146. — Peritheciis subgregariis, superficialibus, subglobosis, ostiolo lineari, compresso, ascis elongato-clavatis, basi longe attenuatis, 75 \approx 10, paraphysibus tenuissimis, numerosis, subæquantibus obvallatis, octosporis, sporidiis ellipsoideo-subfusiformibus, oblique monostichis, medio septatis, non vel vix constrictis, fuscis, 15 \approx 5.

Hab. in cortice arborum, Keren Africæ (BECCARI).

Sect. 3. **Hyalodidymæ** Sacc.

LOPHIOSPHÆRA Trev. — Sacc. Syll. II, p. 675.

- *2. **Lophiosphæra vighèffulensis** Passer. in Erb. Critt. Ital. Ser. II, ⁷³⁴⁴ n. 1373. — Peritheciis plus minus crebre sparsis, superficialibus, subglobosis, atris, ostiolo compresso vel sæpe papillulato; ascis clavatis, paraphysatis, 8-sporis; sporidiis biserialibus, fusiformibus, medio septatis et constrictis, 4-guttulatis, hyalinis, 25 \approx 5.

Hab. in cortice exsiccata Deutzia scabræ Vighèffio pr. Parma Ital. bor. (PASSERINI).

LOPHIOTRICHIA Richon Sphèr. Nouv. in Bull. Soc. Bot. Franc. 1885, p. XI (Etym. a *lophos* crista et *thrix* seta). — Perithecia simplicia, innato-superficialia, carbonacea, nigra, strigoso-pilosa, villo conco-

lori ad basim ut plurimum cincta, ostiolo compresso, cristato, setulis rectis obsito donata. Asci elongati, paraphysati, octospori. Sporidia disticha, fusioidea elongato-bilocularia, ad septum leniter constricta, hyalina.

1. **Lophiotricha Viburni** Rich. Sphér. Nouv. in Bul. Soc. Bot. Franc. 7345
1885, p. XII, tab. XII. — Peritheciis gregariis, irregulariter dispositis, basi ligno immersis, parte semilibera undique pilis strigosis, nigro-fuscis, septatis, rectis obsita, ad basim subiculo fusco superficiali, laxe adhærenti cincta; ostiolo compresso, cristato, luculenter pilis ornato; ascis cylindræo-clavatis, breve stipitatis, octosporis; paraphysibus filiformibus continuis; sporidiis distichis, fusiformibus, biconoideo-elongatis, uniseptatis, ad septum leniter constrictis, pluriguttulatis, hyalinis.

Hab. ad ramos emortuos Viburni Lantanæ truncis muscosis productos, Soulanges prope Saint-Amand-sur-Fion Gallia.

Sect. 4. Hyalophragmiæ Sacc.

LOPHIOTREMA Sacc. Syll. II, p. 679.

- *2. **Lophiotrema recedens** Schulz et Sacc. in Rev. Myc. 1884, Schulz. 7346
Ill. fung. Slav. n. 596. — Peritheciis gregariis, ligno penitus vel semi infossis globoso-depressis vel subangulosis, carbonaceis, intus pallidis, 0,4–0,5 mm. diam., ostiolo emergente, compressiusculo, plus minusve lato, rimoso; ascis cylindræis, paraphysatis, octosporis; sporidiis oblique tristichis, 7-septatis, 8-guttulatis, hyalinis.

Hab. in ramis decorticatis salicinis prope Vinkovce Slavoniae. — A *Loph. aucto* et *L. appendiculato* certe diversum.

3. **Lophiotrema myriocarpum** (Fuck.) Sacc. Syll. II, p. 679, Winter in 5418
Hedw. 1886, p. 103. — Perithecia in ostiolum subangustatum, truncatum v. parum emarginatum ad latera subtumidum attenuata; asci 80–100 \approx 7–9; sporidia fusiformia, 3-septata, ad septa vix constricta, 24–30 \approx 3–4; paraphyses numerosæ, filiformes. — Sec. cl. Wint. sporidia sunt primum hyalina demum fusca et tum 5-septata, an ergo *Lophiostoma*?

- *5. **Lophiotrema pallidum** (Ell.) Berl. et Vogl. *Lophiostoma pallidum* 7347
Ellis in Torr. bot. Club. 1883, p. 52. — Peritheciis subhemisphaericis, 250 μ . diam., sursum collapsis, ostiolo leniter prominulo, non nimis compresso; ascis sessilibus, subcylindræis, 90–100 \approx 12–15, paraphysibus filiformibus; sporidiis non vel subdisti-

chis, oblongo-cylindraceis, subhyalinis, circiter 7-septatis, utrinque obtusis, leniter curvulis, una extremitate latiori, 18-24 \approx 5-6 $\frac{1}{2}$.

Hab. in ligno intemperiiis exposito Sorbi (service-tree) Attah Amer. bor. (HARKNESS).

* 12. **Lophiotrema rubidum** Sacc. Rouss. et Bomm. in Misc. Myc. I, p. 7348

18. — Peritheciis ligno (cortice secedente) superficie leniter cruentato semiimmersis vel basi infossis, subglobosis, compressiusculis, carbonaceis, nigris, $\frac{1}{3}$ mm. cr., ostiolo minuto, compresso, subinde subpapillato; ascis teretibus, filiformi-paraphysatis, 130 \approx 10, octosporis; sporidiis oblique 1-stichis vel distichis, fusiformibus, rectis curvulisve, utrinque acutis, 25-30 \approx 6, 4-nucleatis, triseptatis leniterque constrictis, hyalinis, initio strato exiguo mucoso obductis.

Hab. in sarmentis emortuis Rubi in Belgio. — Affine *Loph. præmorso*, a quo differt sporidiis 4-(nec 6-) nucleatis, matrice cruentata etc.

18. **Lophiotrema Scrophulariæ** (Peck) Sacc. Syll. II, pag. 683. *Var.* 5433

cruentulum Bizz. Fung. Ven. novi v. crit. p. 3. — Peritheciis in maculis longissime effusis, dilute roseis, sparsis v. 2-3-aggregatis, immersis, intus albis; ostiolo minuto, compresso, epidermidem perforante; ascis cylindraceis, paraphysatis, 140-150 \approx 10-12; sporidiis monostichis, late fusoideis, 3-septatis ad septa constrictis, 4-guttatis, 25-26 \approx 8, hyalinis.

Hab. in caulibus emortuis Lythri Salicariæ in provincia patavina Ital. bor. — A *Loph. rubido* differt peritheciis minoribus, sporidiis crassioribus, et magis constrictis.

* 20. **Lophiotrema emergens** Karst. in Hedw. 1883, n. 3, p. 42, Rev. 7349

atque Synop. Ascom. fenn. p. 85. — Peritheciis gregariis, emergentibus, sphaeroideis vel ovoideis, atris, 5 mm. circ. latis; sporidiis distichis, fusoideo-elongatis, utrinque acutatis, curvulis v. subrectis, 2-5-plerumque 4-guttulatis vel spurie tenuiter 3-septatis, ad medium non constrictis, chlorinis, 26-33 \approx 5-7; paraphysibus gracilibus.

Hab. in cortice Populi putrescente Helsingforsicæ (W. NYLANDER). — Quoad partes internas cum *L. crenato* et *L. vagabundo* nonnihil convenit.

* 33. **Lophiotrema Mollerianum** (Winter) Berl. et Vogl. *Lophiostoma* 7350

Mollerianum Winter Contr. Fl. Myc. Lus. V, pag. 17. — Peritheciis in macula exarida, grisea, anguste fusco-cincta, irregulari, hypophylla, sparsis, immersis, subglobosis, ostiolo compresso, in-

tegro, prominulo instructis, membranaceis, fusco-atris, 200-260 μ . diam.; ascis cylindræis, deorsum attenuatis, 78-88 \approx 9, octosporis, paraphysibus filiformibus, æquilongis obvallatis; sporidiis distichis, fusoides biconicis, uniseptatis, ad septum profunde constrictis, hyalinis, 4-guttulatis, utrinque appendiculis brevissimis, rotundatis, 1 μ . longis præditis, 14-16 \approx 5.

Hab. ad folia viva *Quercus cocciferæ* prope Coimbra in Lusitania (MOLLER). — Macula aliena videtur. Ostiolum sub microscopio brevissime fimbriatum.

Sect. 5. Phæophragmiæ Sacc.

LOPHIOSTOMA (Fr.) Ces. et De Not. — Sacc. Syll. II, p. 689.

- *1. **Lophiostoma stenostomum** Ell. et Ev. in Tor. Bot. Club. 1883, 7351 pag 89. — Peritheciis sparsis, globosis, 250 μ . diam., fibris corticis tectis et eum ostiolo leniter compresso, perforantibus; ascis clavato-cylindræis, 75-90 \approx 6-7; paraphysibus filiformibus, copiosis; sporidiis distichis, fusiformibus, leniter curvis, luteolis, primo nucleatis et uniseptatis, demum 3-septatis, ad septa non vel vix constrictis, 18-22 \approx 3-3,5.

Hab. in cortice interiore truncorum *Vitis viniferæ*, Newfield Amer. bor.

- *2. **Lophiostoma Barbeyanum** Sacc. et Roum. in Rev. Myc. 1883, 7352 tab. 41, fig. 15. — Peritheciis e basi insculpta superficialibus, matrice non atrata, globoso-conicis, nitide atris, carbonaceis, $\frac{3}{4}$ mm. diam., ostiolo compressiusculo, angusto, subinde teretiusculo, dein pertuso; ascis tereti-fusoides, breve stipitatis, paraphysatis, octosporis, 140 \approx 14; sporidiis distichis breve fusoides, 3-septatis, ad septa constrictis, 30 \approx 9, fusco-melleis.

Hab. in ramis decorticatis *Sambuci nigræ*. — Ob ostiolum quandoque subrotundum, ad *Melanomma*, vergit.

- *6. **Lophiostoma Corni** Pass. Fung. Gall. nov. in Journ. d'Hist. nat. 7353 1885, n. 4, p. 54. — Peritheciis sparsis gregariisque, cortice nidulantibus, globosis, atris; ostiolo emergente, prominulo, compresso, subplano; ascis subclavatis, 90-95 \approx 10-11, 8-sporis; paraphysibus non visis; sporidiis distichis, oblongo-fusoides, 30 \approx 8-10, rectis, utrinque acutiusculis, 3-septatis, interdum guttulatis, olivaceis, loculis binis interioribus plerumque saturatius coloratis.

Hab. ad ramos *Corni sanguinæ* prope Saintes (Charente Inferieure) Galliæ (BRUNAUD).

- *10. **Lophiostoma fallacissimum** Karst. in Hedw. 1884, n. 2, pag. 1. 7354
 — Rev. atque Synop. Ascom. fenn. p. 86. — Peritheciis ut plurimum confertis, cortice insculptis, ovoideo-sphæroideis, ostiolo minuto, nunc conoideo-truncato, nunc compresso, anguste lineari v. lunulato, 0,5-0,7 mm. circ. lat.; ascis cylindræo-clavatis; sporidiis octonis, oblique monostichis, oblongatis, 3-septatis, junioribus crasse 4-guttulatis, medio constrictis; e luteolo fuscis, 25-40 = 10-12.
Hab. in cortice Tiliæ ulmifoliæ prope Aboam in Fennia.
- *17. **Lophiostoma striatum** Sacc. Miscell. Myc. I, p. 7. — Peritheciis globulosis, hinc inde gregariis, $\frac{1}{3}$ mm. diam., cortice immersis, intus atro-cinereis, ostiolo erumpente, compresso, obtusiusculo; ascis tereti-clavatis breve stipitatis, 150-160 = 15-20, copiose filiformi-paraphysatis, octosporis; sporidiis oblique monostichis v. distichis, fusoideis, utrinque obtusiusculis, 3-septatis, medio constrictis, 38-40 = 11, 4-guttulatis, olivaceo-fuliginis, longitudinaliter tenuiter striatis. 7355
Hab. in ramis corticatis Rosæ caninæ, Saintes Galliæ (BRUNAUD). — Sporidiis non muriculatis sed striolatis ab affini *L. Desmazierii* dignoscitur.
- *18. **Lophiostoma floridanum** E. et E. in Journ. of Myc. 1886, p. 40. 7356
 — Peritheciis gregariis vel sparsis, hemisphæricis, atris, rugosis, circiter $\frac{1}{4}$ mm. diam., ostiolo lineari, laterali, vix prominulo; ascis clavatis, cylindræis, 80 = 8, pedicellatis, paraphysibus filiformibus, copiosis obvallatis; sporidiis distichis, fusoideis, leniter curvulis, olivaceis, 4-nucleatis, uniseptatis, ad septum constrictis, 18-20 = 4-4 $\frac{1}{2}$, supra sentum inflatulis.
Hab. parasitice in stromatibus Diatrypes Stigma, Florida Amer. bor. — «An *Schizostoma?*».
19. **Lophiostoma macrostomoides** De Not. — Sacc. Syll. II, p. 694. 5416
Var. eguttulatum Karst. in Hedw. 1884, n. 3, p. 42. — Sporidiis distichis, elongatis, leviter curvulis vel subrectis, utrinque vix v. leviter attenuatis, ad septa vix constrictis, eguttulatis, dilute fuscidulis, 27-35 = 7-9.
Hab. in cortice crassiore Salicis ad Mustiala Fenniæ.
27. **Lophiostoma simile** Nits. in Fuck. Symb. Myc. pag. 159, Sacc. 5417
 Syll. II, n. 5477. Hæc species, teste Winter (Cfr. Hdwigia 1886, p. 106), similis est *Lophiostomati subcorticali* Fuck. non *Lophiosphæræ subcort.* form. *lignicola* Sacc. (Syll. II, n. 5408) quæ species nova, (**Lophiosphæra lignicola** Sacc.) habenda est. — *Var. so-*

rorium Karst. in Hedwigia 1884, pag. 57: sporidiis oblongato-vel subellipsoideo-fusoides, rectis, 6-7-septatis, 42-48 \approx 11-12.

Hab. ad corticem *Quercus* in par. Kyrkstätt Fennia.

*41. **Lophiostoma congregatum** Harka. New Calif. Fungi p. 26. — 7357

Peritheciis latis, $\frac{3}{4}$ -1 mm. diam., semiimmersis, atris; ostiolo prominulo, $\frac{1}{4}$ - $\frac{1}{2}$ perithecio latitudinem æquante; ascis octosporis, clavatis, distichis, 70-12; sporidiis fusiformibus, curvis, 6-8-septato-constrictis, luteo-brunneis, loculis minute biguttatis, extimis pallidioribus.

Hab. in ramis decorticatis *Sambuci racemosæ*, Sierra Nevada Californiæ.

*43. **Lophiostoma Bommerianum** Sacc. et Roum. in Rev. Myc. 1883, 7358

tab. 41, fig. 16. — Peritheciis sparsis, e basi insculpta superficialibus, globoso-conicis, carbonaceis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. d., nigris ostiolo compressiusculo, angusto, subinde inæquali vel teretiusculo, dein pertuso; ascis elongatis (imperfecte visis); sporidiis distichis, fusoides, inæquilateralibus, 70-80 \approx 20,9-10-septatis, non constrictis, fuligineis.

Hab. in cortice crassiore *Quercus*. — Ob ostiolum subinde inæquale ad *Trematosphæriam* vergit.

*56. **Lophiostoma roseo-tinctum** Ell. et Ev. in Journ. of Myc. 1885, 7359

p. 149. — Peritheciis gregariis, hemisphæricis vel subglobosis, subcarbonaceis, nigris rugosisque, $\frac{1}{3}$ mm. diam., ostiolo vix prominulo compresso, epidermide roseo-tincta, fuscescente primo tectis dein ea secedente liberis; ascis clavato-cylindraceis, subsessilibus 100-112 \approx 13-15, paraphysibus filiformibus obvallatis; sporidiis cylindraceo-fusiformibus, pallide luteis, distichis, 1-septato-constrictis, loculis crasse 4-5-guttatis, utrinque appendicula minuta, subglobosa præditis.

Hab. in caulibus emortuis *Staphyleæ trifoliæ* in Amer. bor. — «An *Lophiosphæra*?».

*61. **Lophiostoma papillatum** Pass. in litt. Martelli in Flor. Bog. p. 7360

146. — Peritheciis sparsis vel subgregariis globosis, basi matrici insculptis, ostiolo papillato, compresso, rima lineari dehiscente; ascis..... non visis; sporidiis oblongo-clavatis, apice rotundatis vel subacutis, basi longe attenuatis et apiculo hyalino terminatis, castaneo fuscis; 9-11-septatis, loculis præsertim superioribus guttulatis, 40 \approx 7-5.

Hab. in corticibus vetustis, socio *Hysterographio gregario*, Keren in Abyssinia Afr. (BECCARI).

Sect. 6. Dictyosporæ Sacc.

LOPHIDIUM Sacc. Syll. II, p. 710.

5. **Lophidium compressum** (Pers.) Sacc. Syll. II, p. 711. *Var. micro-* 5531
spororum Karst. in Medd. af Soc. pro Faun. et Fl. Fenn. II, 1884,
p. 140, Rev. atque Synop. Ascom. fenn. pag. 84: peritheciis su-
perfacialibus, conoideo-sphæroideis; sporidiis 15-18 \approx 5-6.

Hab. in ligno vetusto prope Jvalojoki in Lapponia Inarensi.

*5. **Lophidium pseudocompressum** Sacc. et Berl. in Rev. Myc. 1886, 7361
p. 34, sub *L. subcompresso*. — Peritheciis primum tectis, dein
epidermide secedente liberis vel globosis, ostiolo lato, sæpe cri-
stato, rima longitudinali dehiscente instructo, 360 μ . diam.; ascis
cylindræis, paraphysatis, sursum rotundatis breviterque stipita-
tis, 110-125 \approx 10-12, octosporis; sporidiis oblique monostichis, crasse
oblongo-ovoideis, 5-6-septatis, murali-divisis, ad septum medium
parum constrictis, utrinque rotundatis vel subacutis, 22-25 \approx 10,
fuligineis.

Hab. in caule putri Inulæ graveolentis, Algeria. — *L. compresso* affine, sed magnitudine ac fabrica sporidiorum, nec non matrice, distinctum.

*13. **Lophidium nuculoides** Sacc in litt. *Lophiotrema Nucula*, var. 7362
nuculoides Sacc. Syll. II, p. 680, *Lophiostoma Nucula* Rehm.
Ascom. n. 481, *Lophiostoma nuculoides* Winter Die Pilze II,
p. 306. — Peritheciis primitus plus minus immersis, demum emer-
gentibus et sæpe superficialibus, globosis, submagnis, atris, ostiolo
minuto, angusto, truncato; ascis cylindræis, subsessilibus, 8-sporis,
150-160 \approx 16-17; sporidiis oblique monostichis, oblongis, medio pa-
rum constrictis, utrinque rotundatis, transverse 5-septatis, in lon-
gitudine sepimento uno imperfecto, demum fuscidulis, 24-26 \approx 10;
paraphysibus filiformibus.

Hab. ad Populos, Augsburg Germaniæ.

20. **Lophidium fenestræ** (Cooke et Ell.) Sacc. Syll. II, p. 715, Ber- 5542
lese Fungi Moric. fasc. II, n. 6, tab. 6, fig. 1-11. — Perithecia
subsuperficialia, quandoque ligno immersa, sparsa, subglobosa, $\frac{2}{3}$ -1
mm. diam., rugosiuscula, ostiolo lateraliter compresso, sæpe elon-
gato donata; asci clavati, prælongi, crasse tunicati, apice foveo-
lati, brevissime pedicellati, paraphysibus filiformibus crassiusculis
obvallati, 210-220 \approx 24-27, octospori; sporidia subdisticha, raro ob-
lique monosticha, obtusa, fusiformia, 11-15-septata, medio con-

stricta, loculis 3-4-septulis longitudinalibus divisis, 58-60 \approx 17-19, initio pallida, dein flavo-rufescentia, tandem fuliginea, opaca, juniora cribröse guttulata, septo medio divisa, longiora, 60-64 \approx 18, hyalina.

Fam. 8. Hemihysteriaceæ SPEG. Fungi Guar. Pug. I, p. 258.

Perithecia simplicia vel stromatice aggregata, dimidiato-scutata, subiculo nullo vel plus minusve evoluto insidentia, ostiolo hysterioideo donata. Asci octospori. Sporidia (ad diem) didyma, fuliginea.

Clavis analytica Generum

Morenoëlla Perithecia estromatica, subiculo insidentia; asci ovoidei, aparaphysati.

Schneepia Stromata orbicularia; perithecia, linearia, radiantia; asci cylindracei paraphysati.

Hysterostomella Stromata irregulariter suborbicularia; perithecia dense irregulariterque constipata, difformia; asci ovati, aparaphysati.

MORENOËLLA Speg. Fungi Guar. Pug. I, p. 258 (Etym. a præclaro FRANCISCO MORENO Argentinæ filio, naturæ sedulo perscrutatore). — Perithecia subiculo plus minusve evoluto insidentia, discoidea v. elliptica, hysterioideo-rimosa. Asci ovoidei, 8-spori, aparaphysati. Sporidia didyma, fusca. — Genus speciosellum distinctissimum, a *Lembosia* Lév. peritheciis dimidiato-scutatis recedens; species *Lembosia* plurimæ facile huc transferendæ.

1. **Morenoëlla ampulluligera** Speg. Fungi Guar. Pug. I, n. 303. — Maculis nullis; subiculo parco, superficiali, subcrustaceo-velutino, orbiculariter expanso, 2-3 mm. diam., hinc inde sparso, epiphylo, atro, ex hyphis cylindraceis, rectiusculis, laxe intricatis (5 μ . crass.), fuligineis, densiuscule ramulosis, ramulis conico-ampulluliformibus, 10 \approx 5, distichis, concoloribus ornatis composito; peritheciis in cæspitulis subiculi laxe gregariis, ellipticis vel laxe subtrigonis, 150-200 \approx 100-120, dimidiato-scutatis, tenui membranceis, atris, primo astomis, dein longitudinaliter rimose dehiscentibus, contextu eximie radiante prosenchymatico, margine integris, pellucidis, fumoso-atris; ascis paucis elliptico-ovatis, antice obtusissime rotundatis crasseque tunicatis, postice abrupte rotundato-coarctatis, brevissime pedicellatis, 30-35 \approx 15-18, aparaphysatis, 8-sporis; sporidiis di-tri stichis, ellipticis v. subovatis, medio 1-se-

ptatis, valide constrictis, loculis subæqualibus, utrinque obtusis, 12-13 \approx 5, rectis v. leniter curvulis, primo hyalinis, dein fuscis.

Hab. ad folia viva *Nectandra* spec. cujusdam in silvis prope Piragù Bras.

SCHNEEPIA Speg. Fungi Guar. Pug. I, p. 259 (Etym. a claro Doctore SCHNEEF guaranitici imperii scrutatore acutissimo). — Stromata superficialia, orbicularia, dimidiato-scutata. Perithecia in stromate dense constipata, linearia, radiantia, ostiolis hysterioideis, in centro stromatis sitis donata. Asci cylindraceuti paraphysati, 8-spori. Sporidia elliptica, didyma, fusca.

1. **Schneepia guaranitica** Speg. Fungi Guar. n. 304. — Maculis nullis; stromatibus epiphyllis, sparsis, superficialibus, orbicularibus 1,5-2 mm. diam., atris, radiatim densiuscule rugulosis, ambitu centroque tantum matrici adnatis, dimidiato-scutatis, medium versus ostiolis asperis, contextu parenchymatico, margine minutissime fimbriatulis; peritheciis dense constipato-radiatis (an loculis?), rectis v. leniter flexuosis, ovatis, sæpe vix divisus ac subconfluentibus, 450-500 \approx 150-200, centrum stromatis non attingentibus, pulpa ceracea, fuscidula repletis, ostiolis parvulis, hysterioideis, subradiantibus v. subconcentricis v. irregularibus, labiis tumidulis donatis præditis; ascis cylindraceutis, apice truncato-rotundatis, crassissime tunicatis, unifoveolatis, deorsum breviter attenuatis, minute noduloseque stipitatis, 50-65 \approx 12-14, paraphysibus parcis, simplicibus obvallatis, 8-sporis; sporidiis distichis, elliptico-ovatis, utrinque obtusiusculis, 14 \approx 5, loculis subæqualibus, superiore vix crassiore brevioraque, minute 2-guttulatis, primo hyalinis, dein fuscidulis.

Hab. ad folia viva *Styracis* spec. cujusdam in dumetis convalis Ya-Kan Bras.

HYSTEROSTOMELLA Speg. Fungi Guar. Pug. I, p. 260 (Etym. *hyster* uterus et *stoma* ostiolum). — Stromata irregulariter suborbicularia, dimidiato-scutata. Perithecia in stromate dense irregulariterque constipata, difformia, ostiolis hysterioideis donata. Asci ovati v. subglobosi, 8-spori, paraphysati. Sporidia ovata, didyma, fuliginea.

1. **Hysterostomella guaranitica** Speg. Fungi Guar. Pug. I, n. 305. — Maculis nullis; stromatibus epiphyllis sparsis, rarius aggregato-confluentibus, superficialibus, irregulariter suborbicularibus, 1,5-2 mm. d., atris, glabris, ambitu sinuosulo-undulato, minute rugulosis, dimi-

diato-scutatis, membranaceo-coriaceis, subfragilibus, contextu indistincto, opaco; peritheciis stromate innatis, tunica propria deficientibus, elliptico-diformibus, sæpe confluentibus, pulpa gelatinosa, fusca fartis, ostiolis hysterioideis, in stromate prominulis, parvulis donatis; ascis ovatis, sursum crassiuscule tunicatis, deorsum attenuatis, pedicello crasso, parvulo præditis, 45-55 \approx 25-35, paraphysatis, 8-sporis; sporidiis conglobatis, ovatis utrinque obtusiusculis, 24-28 \approx 10-15, medio 1-septatis, constrictis, loculis subæqualibus, granulosis non vel crasse 1-guttulatis, supero nonnihil majore obtusioreque, primo hyalinis, dein fuliginis.

Hab. ad folia viva Euphorbiaceæ arboreæ cujusdam in silvis subvirginis prope Mbatobi Bras. — Tunica ascorum per ætatem sæpius chlorinula evadit.

Fam. 9. Hysteriaceæ CORDA.

Sect. 1. Hyalosporæ Sacc.

BRIARDIA Sacc. in Rev. Mycol. 1885 (Etym. ab experto et solerti mycologo M. BRIARD hujus generis detectore). — Perithecia erumpenti-superficialia, elongato-lineararia, initio molliuscula (fusco-succinea), rima lineari dehiscentia, margine (sub microscopio) eximie fimbriato; nucleo rubescente; contextu minute parallele parenchymatico. Asci erecti cylindricei, paraphysati, octospori. Sporidia oblonga, continua, hyalina. Natura perithecii a *Schizothyrio*, sporidiis continuis ab *Angelina* mox distinctum genus.

1. **Briardia compta** Sacc. in Rev. Mycol. 1885, tab. LV, f. 9. — Peritheciis parallele seriatis, linearibus, $\frac{1}{2}$ -1 mm. long., $\frac{1}{5}$ mm. cr., e succineo rufo-fuscis, levibus, latiuscule hiantibus, margine pallidior, involuto exquisite fimbriatis; nucleo roseo; ascis teretiusculis, breve stipitatis, octosporis, 40-48 \approx 7-8; paraphysibus bacillaribus, sursum clavulatis,asco paullo longioribus; sporidiis monostichis, oblongis, utrinque obtusiusculis, 10-11 \approx 5, continuis, hyalinis.

Hab. in caule emortuo Galii, Troyes Gallie (BRIARD).

Sect. 3. Hyalodidymæ Sacc.

AULOGRAPHUM Lib. — Sacc. Syll. II, p. 727.

- * 1. **Aulographum reticulatum** Phyll. et Harkn. New Calif. Fungi p. 8. — Ovatum, adnato-superficiale, reticulatum sparsum, labiis subti-

libus; ascis piriformibus; sporidiis obovatis, uniseptatis, hyalinis, 14 \approx 4.

Hab. in pagina inferiore foliorum *Quercus agrifoliæ* in California.

- *2. **Aulographum Lituræ** Cooke in Grevillea XII, p. 38. — Epiphyll- 7368
lum; maculis orbicularibus, fuscis; peritheciis linearibus, curvulis rectisve, atris, in maculis insidentibus; labiis conniventibus; ascis saccatis; sporidiis biglobosis, uniseptatis, fuscis, 7,5 \approx 3,5.

Hab. in foliis *Quercus aquaticæ*, Texas in Florida (RAVENEL). — «An *Lembosia*?».

- *3. **Aulographum acicolum** Harkn. New Calif. Fungi pag. 26. — Pe- 7369
ritheciis oblongis, circinatim dispositis, in maculis pallidis, applanatis, semiimmersis, rima longitudinali, apertis, $\frac{1}{2}$ -1 mm. longis; ascis globosis, octosporis, 25 μ . diam.; sporidiis oblongo-ovatis vel fusiformibus, 1-septato, constrictis, hyalinis, dein brunneis.

Hab. in foliis vivis *Pini Sabinianæ* in Monte Diablo California.

- *8. **Aulographum lucens** Harkn. New Calif. Fungi pag. 26. — Peri- 7370
theciis applanatis, $\frac{1}{2}$ -1 mm. longis, rima longitudinali apertis, in maculis parum decoloratis sparsis; ascis ovatis, 8-sporis, 37 \approx 28; sporidiis oblongis, utrinque rotundatis, 1-septatis, septo vix constrictis, oculis crasse uniguttulatis, hyalinis, tandem brunneis, 21 \approx 10.

Hab. in sarmentis vivis *Garryæ ellipticæ*, Tamalpais California.

- *10. **Aulographum cæspitosum** E. et E. in Journ. of Myc. I, p. 151. 7371
— Peritheciis minutis, $\frac{1}{4}$ mm. vel minus longis, applanatis, poro lato pertusis, basi setis brunneis, repentibus cinctis; ascis ovatis, sessilibus, 30 \approx 15; sporidiis stipatis, oblongo-fusiformibus, obtusis, hyalinis et uniseptatis, dein brunneis, sæpe 3-septatis, 15-20 \approx 3,5, ad septa constrictis.

Hab. in ligno decorticato *Cupressi*, Louisiana Amer. bor. (PROF. F. L. SCRIBUER). — «An *Hysterium*?».

12. **Aulographum maculare** B. et Br., Saccardo Syll. II, pag. 730. — 5578
Asci subglobulosi, basi apiculati, 30 \approx 20; sporidia didyma, 10-12 \approx 5, hyalina.

20. **Aulographum Arundinariæ** Cooke in Grevillea XIV, pag. 14. — 7372
Peritheciis erumpentibus, demum superficialibus, gregariis, linearibus, rectis, plerumque longitudinaliter confluentibus, labiis arctatis, atris, subnitidis, 1-2 mm. long.; ascis piriformibus, octosporis;

sporidiis subellipticis, deorsum attenuatis, uniseptatis, nec constrictis, hyalinis, 13-15 \approx 5.

Hab. in culmis Arundinariæ, Darien Georgia Amer. bor. (RAVENEL).

GLONIUM Mühl. — Sacc. Syll. II, p. 731.

*1. **Glonium tryblidioides** Ell. et Ev. in Torr. Bot. Club. 1883, p. 76. 7373

— Peritheciis emergentibus, oblongis, utrinque obtusis, 1-2 mm. longis, 0,5-0,75 mm. latis, labiis incurvatis, levibus, distantibus, discum fuliginium, constanter expositum relinquentibus; ascis clavato-cylindraceis, sessilibus, 80-90 \approx 9-12, paraphysibus dense coalitis, compactis, apice obscurioribus, discum fuligineo colorantibus obvallatis; sporidiis monostichis vel sursum subdistichis, ovatis, uniseptatis, hyalinis, 12-16 \approx 5-7.

Hab. in rostello vetusto (*fence-rails*) Washington Amer. bor. (W. N. SUKSDORF).

Sect. 4. Phæodidymæ Sacc.

TRYBLIDIUM Duf. — Sacc. Syll. II, p. 740.

*1. **Tryblidium guaraniticum** Speg. Fungi Guar. Pug. I, n. 306. — 7374

Erumpenti-innatum, hinc inde irregulariter v. seriatim dense congestum, atro-fuscum; peritheciis lineari-elongatis, e mutua pressione sæpissime flexuosis, trigonis v. subcupulato-polygonis, majusculis, 1-3 mm. 0,5 mm. latis, labiis tumidis, obtusis, costato-rugosis v. sublevibus, fuscis, plus minusve laxè conniventibus (in formis polygonis latuscule apertis), involutis donatis, coriaceis, duris; ascis cylindraceis, antice rotundatis crassiusculeque tunicatis, postice attenuato-pedunculatis, 130-140 \approx 10, 8-sporis, paraphysibus hyalinis, densissimis, apice fusco-coalescentibus, longioribus immersis; sporidiis rectè monostichis, ellipticis, utrinque obtusiusculis, 23-25 \approx 8-10, medio 1-septatis, constrictis, rectis vel leniter inæquilateralibus, loculis æqualibus, non v. crasse 1-guttulatis, primo hyalinis, dein opace fuliginis.

Hab. ad cortices muscosos truncorum putrescentium in silvis prope Guarapi Bras.

*3. **Tryblidium turgidulum** Phill. et Harkn. New Calif. Fungi p. 5. 7375

— Sparsum, sessile, oblongo-ellipticum, turgidum, leviusculum, nigrum; ascis clavatis; sporidiis oblongo-ellipsoideis, uniseptatis, cen-

tro fortiter constrictis, 5-6 medio pseudoseptatis, rufo-brunneis, 60-90 \approx 13-20.

Hab. in caulibus emortuis *Pentatemonis breviflori* in California.

LEMBOSIA Lév. — Sacc. Syll. II, p. 741.

*1. **Lembosia graphioides** Sacc. et Berl. Misc. Myc. II, pag. 6. — 7376

Peritheciis epiphyllis, gregariis, lineari-oblongis, subinde furcatis, $\frac{1}{2}$ - $\frac{1}{3}$ mm., atris, carinulatis; subiculo obsoleto; ascis oblongo-clavatis, sessilibus, 40-45 \approx 12-14, 6-8-sporis, crasse tunicatis, paraphysatis; sporidiis distichis, inæqualiter didymis, loculo infero minori, 12-14 \approx 6, dilute fuliginis.

Hab. in foliis languidis *Oleæ paniculatæ*, Logan Australiae. — Facies *Aulographi*.

*2. **Lembosia orbicularis** Wint. in Hedw. 1885, p. 29. — Peritheciis 7377

elongatis, utrinque acutis, plerumque varie irregulariterque curvatis vel subcontortis, labiis conniventibus, subnitide atris, in maculis suborbicularibus, atris, opacis, distincte limitatis, plerumque epiphyllis, e fibrillis ramosissimis, fuscis densissime coalitis, oculo armato tantum perspiciendis formatis, sæpe confluentibus, 1-2 mm. lat., superficialibus; ascis e basi parum latiori oblongis, sessilibus, crasse tunicatis, 8-sporis, 60-70 \approx 19-23; paraphysibus tenuibus, ascos parum superantibus; sporidiis inordinatis, oblongo-subcylindricis, utrinque parum attenuatis et rotundatis, medio uniseptatis, subconstrictis, primo hyalinis, demum dilute fuscis, 24-26 \approx 8-9.

Hab. ad *Eucalypti pilularis* folia subviva in Australia (MÜLLER).

*3. **Lembosia diffusa** Wint. in Hedw. 1885, p. 30. Sacc. et Berl. in 7378

Rev. Myc. 1885, t. LIV, f. 9. — Mycelio in maculis purpureo-fuscis, indeterminatis, epiphyllis radiatim effuso, e fibris laxè ramosis, ramis primariis distantibus, ramulis tenuioribus numerosis, intricatis præditis constante, maculas fusco-atras, rotundatas vel irregulares, usque 10 mm. latas formante; peritheciis sparsis, præcipue centro macularum insidentibus, primo punctiformibus, demum elongatis, lanceolatis, utrinque acutis, plerumque rectis, opacis, atris, labiis conniventibus, basi hyphis radiantibus cinctis; ascis subglobosis v. ellipticis, sessilibus, 8-sporis, 45-65 \approx 30-38; paraphysibus filiformibus, sursum subclavatis; sporidiis conglobatis, oblongis, utrinque rotundatis, medio uniseptatis constrictisque, fuscis, 26-28 \approx 12.

tro fortiter constrictis, 5-6 medio pseudoseptatis, rufo-brunneis, 60-90 \approx 13-20.

Hab. in caulibus emortuis *Pentatemonis breviflori* in California.

LEMBOSIA Lév. — Sacc. Syll. II, p. 741.

*1. **Lembosia graphioides** Sacc. et Berl. Misc. Myc. II, pag. 6. — 7376

Peritheciis epiphyllis, gregariis, lineari-oblongis, subinde furcatis, $\frac{1}{2}$ - $\frac{1}{8}$ mm., atris, carinulatis; subiculo obsoleto; ascis oblongo-clavatis, sessilibus, 40-45 \approx 12-14, 6-8-sporis, crasse tunicatis, paraphysatis; sporidiis distichis, inæqualiter didymis, loculo infero minori, 12-14 \approx 6, dilute fuliginis.

Hab. in foliis languidis *Oleæ paniculatæ*, Logan Australiae. — Facies *Aulographi*.

*2. **Lembosia orbicularis** Wint. in Hedw. 1885, p. 29. — Peritheciis 7377

elongatis, utrinque acutis, plerumque varie irregulariterque curvatis vel subcontortis, labiis conniventibus, subnitide atris, in maculis suborbicularibus, atris, opacis, distincte limitatis, plerumque epiphyllis, e fibrillis ramosissimis, fuscis densissime coalitis, oculo armato tantum perspiciendis formatis, sæpe confluentibus, 1-2 mm. lat., superficialibus; ascis e basi parum latiori oblongis, sessilibus, crasse tunicatis, 8-sporis, 60-70 \approx 19-23; paraphysibus tenuibus, ascos parum superantibus; sporidiis inordinatis, oblongo-subcylindricis, utrinque parum attenuatis et rotundatis, medio uniseptatis, subconstrictis, primo hyalinis, demum dilute fuscis, 24-26 \approx 8-9.

Hab. ad *Eucalypti pilularis* folia subviva in Australia (MÜLLER).

*3. **Lembosia diffusa** Wint. in Hedw. 1885, p. 30. Sacc. et Berl. in 7378

Rev. Myc. 1885, t. LIV, f. 9. — Mycelio in maculis purpureo-fuscis, indeterminatis, epiphyllis radiatim effuso, e fibris laxè ramosis, ramis primariis distantibus, ramulis tenuioribus numerosis, intricatis præditis constante, maculas fusco-atras, rotundatas vel irregulares, usque 10 mm. latas formante; peritheciis sparsis, præcipue centro macularum insidentibus, primo punctiformibus, demum elongatis, lanceolatis, utrinque acutis, plerumque rectis, opacis, atris, labiis conniventibus, basi hyphis radiantibus cinctis; ascis subglobosis v. ellipticis, sessilibus, 8-sporis, 45-65 \approx 30-38; paraphysibus filiformibus, sursum subclavatis; sporidiis conglobatis, oblongis, utrinque rotundatis, medio uniseptatis constrictisque, fuscis, 26-28 \approx 12.

Hab. ad folia viva Melastomacearum speciei adhuc indeterminatæ, prope S. Francisco in Brasilia (E. ULE). — «Subinde hyphæ mycelii adsunt taxiformi-ramosæ, qua nota ad *Lembosiam Melastomatum* accedit species a qua tunc verisimiliter *L. diffusa* Wint. non satis differt».

- *4. **Lembosia congesta** Winter Exot. Pilze in Flora 1884, p. 9. — Ra. 7379
 mulicola; peritheciis densissime congregatis, maculas atras, opacas, rotundato-irregulares, usque 4 mm. latas, compactas formatibus, elongatis, sæpe curvatis flexuosisque, utrinque attenuatis, rima longitudinali, demum pervia præditis, atris; hyphis in centro macularum non distinctis, in ambitu modo discretis sed parvis, radiantibus, parum ramosis, remote septatis, fuscis; ascis oblongo-clavatis, demum in stipitem brevem attenuatis, 8-sporis, 60-70 \simeq 21-26; sporidiis inordinatis seu subdistichis, oblongis, uniseptatis, ad septum constrictis, maturis fuscis, 17-18 \simeq 7-9; paraphysibus filiformibus, apice plerumque bicipitibus, fuscidulis, plus minusve conglutinatis.

Hab. ad Carissæ arduinæ ramulos juniores in Promontorio Bonæ Spei Afr. austr. (MAC-OWAN).

Sect. 5. Phæophragmiæ Sacc.

HYSTERIUM Tode. — Sacc. Syll. II, p. 743.

- *1. **Hysterium Eucalypti** Phill. et Hark. in Grevillea XIII, p. 23. — 7380
 Sparsum vel gregarium, 500 μ . long., minutum, ellipticum, rarisime striatum, erumpens, sessile; labiis clausis, tumidis; ascis clavatis; sporidiis biseriatis, oblongis, plus minusve curvatis, tri-septatis, fuscis, 16-20 \simeq 4-6.

Hab. in cortice Eucalypti in California (HARKNESS).

TRYBLIDIELLA Sacc. Syll. II, p. 757.

- *1. **Tryblidiella clavispora** (Peck) Berl. et Vogl. *Tryblidium clavosporum* Peck in Thirty-fifth Rep. St. Mus. Bot. 1884, p. 143. —
 Peritheciis suborbicularibus, planis vel leniter convexis, marginatis, 800-1000 μ . diam., nigris, quandoque siccis vel contractis, hysteriiformibus labiisque clausis; ascis clavatis vel cylindraceis, 85-110; sporidiis oblongo-clavatis, stipatis vel biseriatis, 4-septatis, 23-27 \simeq 8-10, fuscis.

Hab. in ligno decorticato Salicis nigræ, Albany Amer. bor.

RHYTIDHYSTERIUM Speg. — Sacc. Syll. II, p. 759.

- *1. **Rhytidhysterium Scortechinii** Sacc. et Berl. Misc. Myc. II, p. 7. — 7382
Peritheciis sparsis, superficialibus, oblongo-elongatis, 1,5-2 \approx 0,6-0,7 mm., subcoriaceis, rima lineari, latiuscula, discum rubro-fuscum revelante exaratis, labiis tumidulis, crebre et eximie transverse striato-sulcatis, nigricantibus; ascis teretiusculis, paraphysatis, 180-200 \approx 12-14, octosporis; sporidiis oblique monostichis, oblongis, utrinque obtusiusculis, 3-septatis, leniter constrictis, 25-27 \approx 12, fuligineis, demum opacis.

Hab. in ramis corticatis arborum, Teviot Australiæ.

MYTILIDION Duby. — Sacc. Syll. II, p. 760.

1. **Mytilidion aggregatum** (D. C.) Duby. Sacc. Syll. II, p. 760. *Var.* 5701
intricatissimum Karst. Fung. Fenn. atque Sib. in Medd. Soc. pro Faun. et Flor. fenn. II, 1884, p. 141 et Rev. Mon. p. 103. — Peritheciis superficialibus, sessilibus, elongatis, flexuosis, in cæspites rotundatos, magnos, 1-2 cm. latos, varie connatis, carbonaceis, fragilibus, subopacis, leviusculis, atris, rimula angusta.

Hab. in cortice radicis *Piceæ excelsæ* in monte Hidenvaara par Kuhmo Fennicæ (VAINIO).

- *1. **Mytilidion insulare** Sacc. in Barbey Fl. Sard. Comp. p. 246. — 7383
Peritheciis dense, parallele gregariis, mytiliformibus, acutiuscule carinatis et angustissime rimosis, atris, basi leniter coarctatis, $\frac{3}{4}$ -1 mm. long., $\frac{1}{4}$ mm. crass., carbonaceis; ascis tereto-clavatis, breve stipitatis, 70-80 \approx 14-15, paraphysatis, 8-sporis; sporidiis distichis, tereti-fusoideis, utrinque obtusis, rectiusculis, 22-25 \approx 5,5-6,5, 5-6-septatis, ad septa vix constrictis, ochraceo-fuligineis.

Hab. in ligno superficie atrato, induratoque prope Cagliari Sardinicæ (MARCUCCI). — Affine *M. aggregato*, sed sporidiis obtusis, 5-6-septatis (nec 3-septatis) mox distinctum.

Sect. 6. Hyalophragmiæ Sacc.**GLONIELLA** Sacc. Syll. II, p. 765.

- *2. **Gloniella Scortechiniana** Sacc. et Roum. in Rev. Myc. 1883, 7384
tab. 41, fig. 17. — Peritheciis gregariis, sæpius parallele seriatis, elongatis, sæpius rectis, depressis, carbonaceis, nigris, vix 1 mm. longis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. latis, rima angusta dehiscentibus; ascis cylindraceis, 100 \approx 10, breve stipitatis, paraphysatis, octosporis; sporidiis

oblique 1-stichis, ellipsoideo-oblongis, utrinque rotundatis, 16-18 \approx 7, 3-septatis, ad septa constrictis, hyalinis.

Hab. in ligno putri quercino (?). — *Gloniellæ ovatæ* et *G. hyalinæ* affinis species.

- *9. **Gloniella syconophila** (Cooke) Berl. et Vogl. *Hysterium syconophilum* Cooke in Grevillea XIV, p. 14. — Peritheciis gregariis, lanceolatis, rectis vel flexuosis, atris, emergentibus, rimula longitudinali, angusta notatis; ascis subclavatis, octosporis; sporidiis sublanceolatis, multinucleatis, demum quinquesepatis, hyalinis, 36-40 \approx 8-10.

Hab. in corticibus vivis Fici Caricæ in Carolina inf. (RAVENEL).

- *11. **Gloniella Hakeæ** Penz. et Sacc. Funghi Mort. pag. 8, tab. IV, fig. 3. — Peritheciis laxè gregariis, minutissimis, superficialibus, sæpius duobus vel tribus conglutinatis, ellipticis, aterrimis, rima longitudinali apertis; ascis saccato-clavatis, dense congestis, brevissime et crasse stipitatis, 25-28 \approx 9-11, paraphysibus filiformibus, apice vix incrassatis, ascos æquantibus; sporidiis octonis, inasco distichis, oblongis, utrinque rotundatis, triseptatis vel 4-guttulatis, ad septa vix constrictis, 12-14 \approx 3-3,5, hyalinis.

Hab. in foliis delapsis, putrescentibus Hakeæ eucalyptoidis, Mortola (PENZIG). — Affinis *Glon. perexiguæ* a qua præcipue sporidiorum forma magnitudineque ascorum distinguenda.

- *14. **Gloniella Holoschæni** (De Not.) Rehm in litt. *Propolis Holoschæni* De Not. in Erb. Critt. It. ser. II, n. 439. — Erumpens, atra, in sicco hysteriiformis, madore reclusa, oblongata, disco fusco; peritheciis crassiusculis, subprismaticis, oblongatis, basi nempe carinatis, margine utrinque ad angulum fere rectum inflexis; ascis clavatis, 8-sporis; paraphysibus coalescentibus, apice infuscatis; sporidiis fusoidis, 25 μ . longis, junioribus nucleolis 2-4-fætis, demum 4 locularibus, oculis polaribus mediis multo minoribus, hyalino-luteolis.

Hab. in culmis aridis Scirpi Holoschæni, Parma Ital. bor.

Sect. 7. Hyalodictyæ Sacc.

GLONIOPSIS De Not. — Sacc. Syll. II, p. 773.

2. **Gloniopsis biformis** (Fr.) Sacc. Syll. II, pag. 773. *Var. propecta* Karst. in Hedw. 1884, pag. 19 et Rev. Mon. pag. 100. — A

typo differt sporidiis majoribus, nempe 20-24 \approx 9-10, ad septum medium non constrictis ascisque oblongatis, crassioribus, 90 \approx 27.

Hab. in ligno denudato Quercus in regione Aboënsi Fenniæ.

- *7. **Gloniopsis Loniceræ** (Phill. et Hark.) Berl. et Vogl. *Hysterium* 7388

Loniceræ Phill. et Hark. in Grevillea XIII, pag. 23. — Sparsa vel gregaria, elliptica vel oblongo-lanceolata, 500-1200 μ . long. parallela, prominula, striata vel levis, labiis prominulis, maturitate apertis; ascis cylindraceo-clavatis, octosporis; sporidiis ellipticis v. subpiriformibus, muriformibus, hyalinis, plerumque gelatinâ involutis. 20-30 \approx 7-11; paraphysibus indistinctis.

Hab. in ramis decorticatis *Loniceræ* in California (HARKNESS). 5750

8. **Gloniopsis australis** (Duby) Sacc. Syll. II, pag. 774. ***G. vinealis**

Sacc. et Br. Miscell. Myc. II, p. 23, n. 101. — Peritheciis elongatis, utrinque rotundatis, 1- $\frac{1}{4}$ mm., atris, rima latiuscula exaratis; ascis clavatis, breve stipitatis, paraphysatis, 68-76 \approx 24-28; sporidiis distichis, rectis curvulisve, ovato-oblongis, 24-28 \approx 10, 5-septato-muriformibus, hyalinis.

Hab. in ligno quercino indurato, Troyes Galliæ (BRIARD).

- *11. **Gloniopsis insignis** (Cooke et Hark.) Berl. et Vogl. *Hystero-* 7389

graphium insigne Cooke et Harkness in Grevillea XIV. p. 10. — Peritheciis gregariis, erumpentibus, ovalibus vel ellipticis, $\frac{1}{2}$ -1 mm. long., atris, subnitidis, labiis arcte conniventibus; ascis clavatis, octosporis; sporidiis lanceolatis, utrinque acuminatis, medio constrictis, 5-7-septatis, muriformibus, hyalinis, 20 \approx 10.

Hab. in ligno *Acaciæ* in California (HARKNESS).

Sect. 8. Phæodictyæ Sacc.

HYSTEROGRAPHIUM Corda — Sacc. Syll. II, p. 776.

- *1. **Hysterographium prominens** (Phill. et Hark.) Berl. et Vogl. *Hy-* 7390

sterium prominens Phill. et Harkn. New Calif. Fungi p. 5. — Sparsum, prominulum, oblongo-ellipticum, leve, raro striatum; ascis late clavatis; sporidiis fusiformibus vel oblongo-fusoideis, curvis vel rectis, uniseptatis, ad septum constrictis, muriformibus, brunneis, 30-48 \approx 7-10.

Hab. in ramis *Salicis lasiolepis* in California.

- *2. **Hysterographium Ceanothi** (Ph. et Hark.) Berl. et Vogl. *Hyste-* 7391

rium Ceanothi Phill. et Hark. in Grevillea XIII, pag. 83. — Sparsum, sessile vel subimmersum, ovale, dein lanceolatum, leve, glabrum, nitidum, atrum; labiis prominulis, arcte conniventibus; ascis

late clavatis, tetrasporis; sporidiis muriformibus, oblongo-lanceolatis, utrinque obtusis, fuscis, $40 \approx 14-15$; paraphysibus adherentibus.

Hab. in caulibus *Ceanothi* in California (HARKNESS). — Sæpe sporidia mucro obvoluta sunt.

- *3. **Hysterographium Beccarianum** Pass. in litt. Martelli in Flor. Bog. 7392
pag. 146. — Peritheciis gregariis, fragilibus, superficialibus, atris, opacis, rectis vel raro curvis, labiis tumidulis, inflexis, conniventibus, levibus; ascis oblongo-clavatis, inferne attenuatis, paraphysibus filiformibus obvallatis, $100-125 \approx 10-12$, octosporis; sporidiis monostichis, ellipticis vel ovatis, primo triseptatis, melleis, dein septemseptatis, muriformibus, fuscis, $17,5 \approx 7-8$, ad septa non constrictis.

Hab. in corticibus vetustis, Keren Abyssiniæ (BECCARI).

- *4. **Hysterographium gregarium** Pass. in litt. Martelli in Flor. Bog. 7393
pag. 146. — Peritheciis oblongis, superficialibus, atris, levibus in greges coadunatis, rectis vel raro flexuosis, labiis conniventibus; ascis paraphysatis, oblongo-clavatis, basi longe attenuatis, octosporis, $75-95 \approx 12-15$; sporidiis distichis, linguæformibus, primo ex hyalino luteolis, triseptatis, dein fuscis, $8-9$ -septatis, adiectis septis longitudinalibus plus minus obscuris sed satis perspicuis.

Hab. ad cortices vetustos, Keren Abyssiniæ (BECCARI).

- *5. **Hysterographium affine** Pass. in litt. Martelli in Flor. Bog. p. 147. 7394
— Fructificatione *Hysterographio gregario* simile, sed peritheciis sparsis, brevibus, subglobosis; sporidiis brevius ovoideis, $20 \approx 7,5$.

Hab. in corticibus, Keren Abyssiniæ (BECCARI).

- *6. **Hysterographium pachyascum** Berl. Fungi Moric. Fasc. II, tab. 7, 7395
fig. 1-7. — Peritheciis subgregariis, atris, carbonaceis, linearibus v. demum subinde patellæformibus, $1-1\frac{1}{2}$ mm. longis, $\frac{1}{4}$ mm. latis (valvis clausis); ascis late clavatis, sursum rotundatis, basi attenuatis breviterque stipitatis, paraphysibus densis, sursum brunneolis cinctis, $60-70 \approx 15-20$, octosporis; sporidiis subtristichis v. distichis, oblongo-ovoides, primum cribrose guttulatis, hyalinis, dein $6-7$ -septatis, loculis septulo longitudinali divisis, fuscis, $25 \approx 10$.

Hab. in ligno semiputri *Mori* albæ, Vaucluse Galliæ, sociâ *Zignoëllâ Mori*.

14. **Hysterographium hiascens** Rehm. Sacc. Syll. II, pag. 680. *H. 5771
macrum Sacc. et Berl. Misc. Myc. II, p. 7. — Peritheciis elongato-linearibus, rectiusculis, parallelis, $1-1,5 \approx 0,3$ mm., atris, rima angusta incis, labiis macris; ascis clavatis, breve stipitatis, pa-

raphysatis, 90-100 \approx 25-30, octosporis; sporidiis subdistichis, oblongo-subfusoidis, 25-30 \approx 8-10, 6-8-septato-muriformibus, medio constrictis, olivaceis.

Hab. in lignis putridis, Logan Australiæ.

Sect. 9. Scolecosporæ Sacc.

HYPODERMA D. C. — Sacc. Syll. II, p. 784.

- *1. **Hypoderma Oleæ** Thüm. Pilz. d'Ælb. pag. 34. — Peritheciis in foliorum pagina superiore subgregariis, solitariis vel interdum confluentibus, rotundis vel ovatis, nigrescentibus, labiis depressis; ascis clavatis, breve stipitatis, 75-95 \approx 10-12, octosporis; sporidiis fusiformibus, curvulis, nucleatis, hyalinis, 20-24 \approx 3-4. 7393

Hab. in foliis emortuis Oleæ europææ in Austria. — *Hypodermati Hederae* proximum.

- *3. **Hypoderma Eucalypti** Cooke et Harkn. in Grevillea XIII, p. 21. 7398
— Epiphyllum gregarium; peritheciis lanceolatis linearibusque, erumpentibus, atris, opacis, labiis rotundatis, laxè conniventibus; ascis clavatis; sporidiis inordinatis, elongato-fusiformibus, continuis, hyalinis, 30 \approx 3.

Hab. in foliis Eucalypti in California (HARKNESS).

- *10. **Hypoderma Heteromelis** Phill. et Harkn. in Grevillea XIII, p. 23. 7398
— Gregarium, oblongum; peritheciis rectis vel curvulis, applanatis vel leniter elevatis, 400-800 μ . long.; ascis cylindræis; sporidiis filiformibus, 65 \approx 2; paraphysibus filiformibus.

Hab. in foliis Heteromeles arbutifoliæ in California (HARKNESS).

LOPHODERMIIUM Chev. — Sacc. Syll. II, p. 791.

- *13. **Lophodermium leptothecium** Speg. Fungi Guar. Pug. I, n. 307. 7399
— Maculis nullis v. indeterminatis fuscescentibus, centro pallidioribus v. albicantibus; peritheciis epiphyllis, laxè maculis insidentibus, linearibus, ellipticis vel elliptico-elongatis, rarius trigonis, rectis v. leniter flexuosis, 450-600 \approx 250-300, adnato-superficialibus, atris, levibus, subnitentibus, glabris, longitudinaliter rimosis, labiis acute conniventibus, tenuibus, integris, membranaceo-coriacellis, contextu atro, subopaco, peripherico crasse, centrali minute parenchymatico; ascis clavato-filiformibus, sursum obtuse acutatis crassiusculeque tunicatis, deorsum longe leniterque attenuatis, 100 \approx 4, 8-sporis, paraphysibus filiformibus, simplicibus nonnihil longioribus apice rectis v. flexuosis, non vel vix incrassato-erosulis

obvallatis; sporidiis filiformibus, rectis v. leniter flexuosis, utrinque subattenuatis, obtusiusculis, 70-75 \approx 0,7-0,8, crasse multiguttulatis, hyalinis.

Hab. ad folia dejecta, exsiccata vel putrescentia Laurineæ cujusdam in silvis prope Guarapi Bras. — Species *Loph. maculari* affinis, sed certe satis diversa.

- * 16. **Lophodermium Dracænæ** Phill. et Harkn. in Grev. XIII, tab. 3. — 7400
Sparsum, ellipticum vel ovatum, 300-800 μ . long., superficiale, deciduum, glabrum, atrum, labiis adhærentibus, demum apertis hiantibusque; ascis cylindraceutis, octosporis; sporidiis filiformibus, hyalinis, 70-85 \approx 1-2, paraphysibus filiformibus, ad apicem dichotomis.

Hab. in Dracæna in California (HARKNESS).

ACROSPERMUM Tode. — Sacc. Syll. II, p. 807.

- * 1. **Acrospermum Robergeanum** Desm. Ann. des Sc. Nat. ser. 3, 7401
t. XVI et Cooke in Grev. XII, p. 101. — Sparsum, minutum, clavatum, cylindricum, brunneo-pallidum, apice et basi albidum, siccum nigrescens, complanatum; ascis cylindraceutis, longissimis, tenuibus, octosporis, 250 μ . longis; sporidiis parallele stipatis, filiformibus, ascis longitudine subæquantibus, hyalinis.

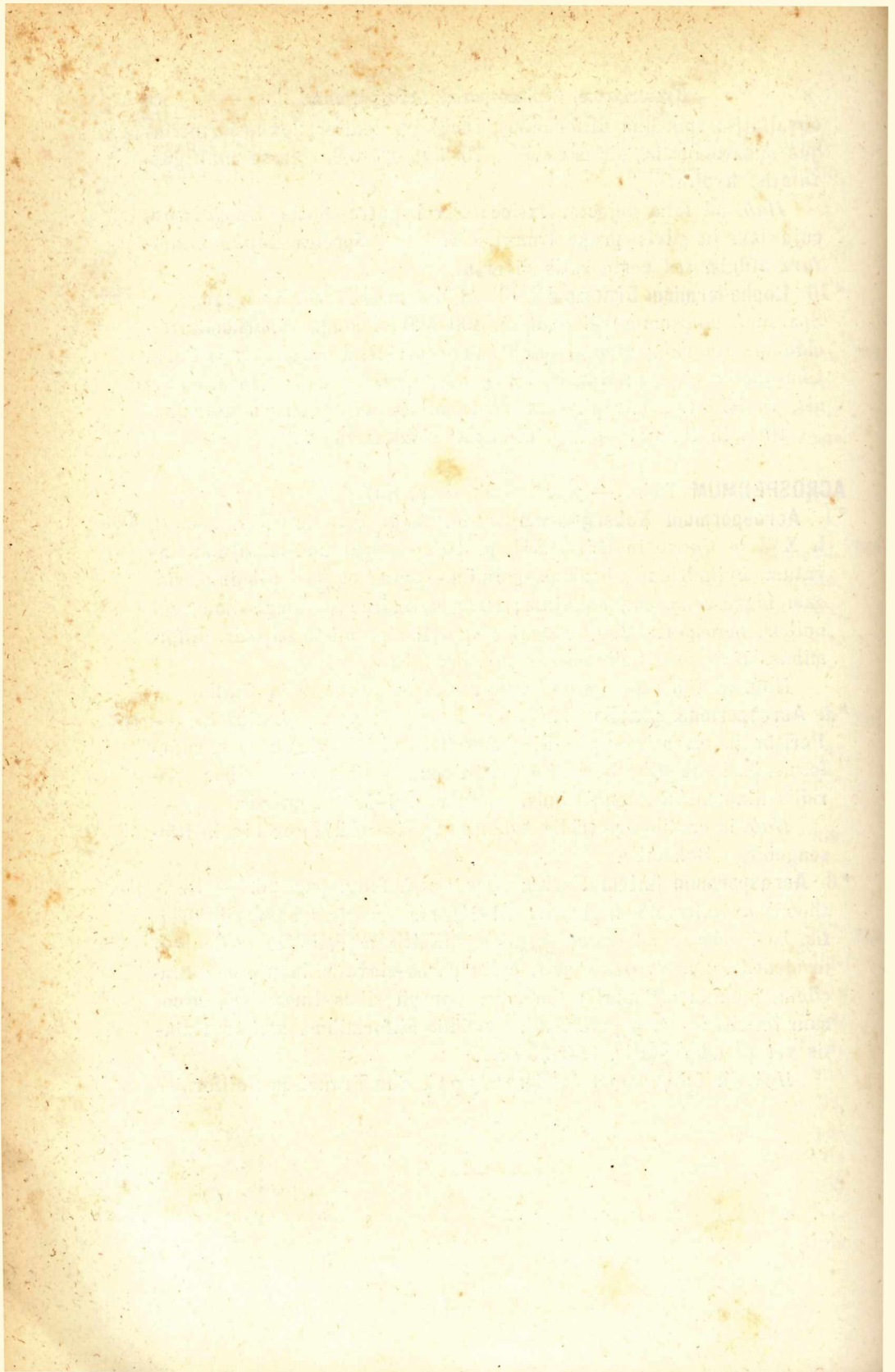
Hab. in foliis semiputridis Corni sanguineæ in Gallia.

- * 2. **Acrospermum gracile** Corda Ic. fung. III, pag. 28, fig. 75. — 7402
Peritheciis clavatis, stipitatis, glaberrimis, nitidis, violaceo- v. rufofuscis, basi subbulbosis, subinclinatis, acuminatis; nucleo albo; sporidiis filamentosis, tenuissimis, guttulatis, 1-1,4 μ . crassis.

Hab. in caulibus putridis Adenostylis albifrontis in Riesengebirge Bohemiæ.

- * 6. **Acrospermum fultum** Harkn. New Calif. fungi pag. 26. — Peri- 7403
theciis cuneiformibus, gregariis, 1-1 $\frac{1}{2}$ mm. longis, transverse striatis, basi erismæ ad instar formata suffultis mycelioque radiculoso insidentibus; ascis octosporis, cylindraceuto-clavatis, in stipitem gracilem, longum attenuatis, 500 \approx 9; paraphysibus linearibus, ascorum longitudinem æquantibus; sporidiis filiformibus, multiguttulatis vel pseudoseptatis, 300-350 \approx 2.

Hab. in foliis emortuis Eucalypti, San Francisco Californiæ.



REPERTORIUM PYRENOMYCETUM

SECUNDUM MATRICES

Obs. A. indicat *Asterina*. — Ac. *Acanthostigma*. — Acr. *Acrospermum*. — Am. *Amphisphaeria*. — An. *Anthostomella*. — Ant. *Anthostoma*. — Ap. *Apiospora*. — Api. *Apiosporium*. — Au. *Auerswaldia*. — Aul. *Aulographum*. — B. *Bizzozzeria*. — Ba. *Balansia*. — Bag. *Bagnisiella*. — Bo. *Botryosphaeria*. — Br. *Broomella*. — Bri. *Briardia*. — C. *Chaetomidium*. — Ca. *Capnodium*. — Cal. *Calonectria*. — Calosp. *Calospora*. — Calos. *Calosphaeria*. — Ce. *Ceratostoma*. — Cer. *Ceratostomella*. — Cera. *Ceratosphaeria*. — Ceri. *Ceriospora*. — Ch. *Chaetomium*. — Cha. *Charonectria*. — Chae. *Chaetosphaeria*. — Cl. *Cleistoma*. — Cla. *Claviceps*. — Cly. *Clypeosphaeria*. — Cœ. *Cœlosphaeria*. — Cop. *Coprotepa*. — Cor. *Corynelia*. — Cr. *Cryptosphaeria*. — Cry. *Cryptosporella*. — Cryp. *Cryptospora*. — Crypt. *Cryptovalsa*. — Cu. *Cucurbitaria*. — Del. *Delitschia*. — D. *Dimerosporium*. — Di. *Diatrype*. — Dia. *Diatrypella*. — Diap. *Diaporthe*. — Did. *Didymella*. — Didy. *Didymosphaeria*. — Dil. *Dilophia*. — Do. *Dothidella*. — Dot. *Dothidea*. — E. *Erysiphe*. — El. *Eleutheroomyces*. — En. *Endoxyla*. — Enc. *Enchinosphaeria*. — Ep. *Epichelœ*. — Er. *Eriosphaeria*. — Eu. *Eurotium*. — Eur. *Euryachora*. — Eut. *Eutypella*. — Euty. *Eutypa*. — F. *Fracchiæa*. — Fe. *Fenestella*. — G. *Gnomoniella*. — Gl. *Gloniella*. — Glo. *Gloniopsis*. — Gn. *Gnomonia*. — H. *Hyaloderma*. — Ha. *Haplosporium*. — He. *Heptameria*. — Here. *Hereospora*. — Her. *Herpotrichia*. — Ho. *Homostegia*. — Hypoco. *Hypocopa*. — Hy. *Hypoxyton*. — Hyp. *Hypomyces*. — Hypo. *Hypoerea*. — Hypoc. *Hypocrella*. — Hypocre. *Hypocreopsis*. — Hypod. *Hypoderma*. — Hys. *Hysterostomella*. — Hyst. *Hysterium*. — Hyste. *Hysterographium*. — I. *Inzenjæa*. — K. *Kalmusia*. — Kie. *Kickxella*. — L. *Lasiobotrys*. — La. *Lasiosphaeria*. — Læ. *Læstidia*. — Le. *Lentomita*. — Lem. *Lembosia*. — Lep. *Leptosphaeria*. — Li. *Lizonia*. — Lin. *Linospora*. — Lo. *Lophiosphaera*. — Lop. *Lophotricha*. — Loph. *Lophotrema*. — Lophi. *Lophiostoma*. — Lophid. *Lophidium*. — Lophod. *Lophodermium*. — M. *Microphaera*. — Ma. *Massaria*. — Mas. *Massarina*. — Massa. *Massariovalsa*. — Maz. *Mazzantia*. — Me. *Meliola*. — Mel. *Melanopsamma*. — Mela. *Melanconis*. — Melan. *Melanconiella*. — Melano. *Melanomma*. — Melanos. *Melanospora*. — Melo. *Melogramma*. — Met. *Metasphaeria*. — Mi. *Micronectria*. — Mic. *Microthyrium*. — Micr. *Micropeltis*. — Microsph. *Microsphaera*. — Mo. *Monascus*. — Mon. *Montagnella*. — Mor. *Morenoëlla*. — Mu. *Munkiella*. — Mü. *Müllerella*. — My. *Myriococcum*. — Myi. *Myiocopron*. — Myt. *Mytilidion*. — N. *Nummularia*. — Ne. *Neopeckia*. — Nec. *Nectriella*. — Nect. *Nectria*. — O. *Ophiobolus*. — Op. *Ophionectria*. — Oph. *Ophiodothis*. — Or. *Orbicula*. — Ot. *Otthia*. — P. *Phomatospora*. — Pa. *Parodiella*. — Par. *Paranectria*. — Pe. *Pemphidium*. — Ph. *Physalospora*. — Pha. *Pharcidia*. — Phii. *Philocopa*. — Phy. *Phyllachora*. — Pi. *Pisomyxa*. — Pl. *Pleospora*. — Ple. *Pleosphaeria*. — Pleo. *Pleonectria*. — Pleog. *Pleogibberella*. — Pod. *Podosphaera*. — Pr. *Protocenturia*. — Py. *Py-*

renophora. — R. *Rosellinia.* — Re. *Rehmiella.* — Rh. *Rhynchostoma.* — Rhy. *Rhynchomeliola.* — Ro. *Rosenscheldia.* — S. *Sphaerotheca.* — Sa. *Saccardinula.* — Sc. *Scirrhella.* — Sch. *Schneepia.* — Sci. *Schirria.* — Scu. *Scutellum.* — Se. *Seynesia.* — So. *Sordaria.* — Sor. *Sorothelia.* — Sp. *Sphaerella.* Sph. *Sphaerulina.* — Sphæ. *Sphaeroderma.* Spo. *Sporormia.* — St. *Stigmata.* — T. *Trabulia.* — Te. *Teichospora.* — Th. *Thyridaria.* — Thy. *Thyridium.* — Ti. *Tichothecium.* — Tr. *Tryblidium.* — Tre. *Trematosphaeria.* — Tri. *Tripospora.* — Tric. *Trichosphaeria.* — Try. *Tryblidiella.* — U. *Uncinula.* — V. *Valsa.* — Va. *Valsaria.* — Ve. *Venturia.* — Vi. *Vizella.* — W. *Wallrothiella.* — Wi. *Winteria.* — X. *Xylaria.* — Z. *Zignoëlla.*

Numeri 6181-7000 citantur 181-700.

Numeri sequentes, nec non illi asterisco notati, ex integro indicantur.

Additæ sunt matrices specierum in « **Addenda** ad Vol. I. et II. » (pp. 759-663 et pp. I-LXIX) contentarum. — Numeri harum specierum ex integro indicantur.

- | | |
|--|---|
| Abies — A. 210. — Me. 237. — Sp. 415. Nect. 4804*. 4806*. — Hypo. 7204. 7209. | Alpinia — Phy. 7275. |
| Acacia — W. 399. — Diap. 560. — Thy. 7124. — Nect. 7178. — Glo. 7389. | Amelanchier — D. 243. ¹ — Diap. 6095. 6097. — Ple. 7308. — Pe. 6165. |
| Acanthaceæ. Se. 7334. | Ampelopsis — Cry. 6025. — Diap. 6104. |
| Acarospora. — Didy. 589. | Ammophila — An. 1071. ¹ |
| Acer — My. 190. V. 276. 277. — Cr. 5907. — Did. 6077. — Ch. 300. — Cu. 491. — Mela. 540. 541. 542. — Rh. 620. — Melano. 7004. — Met. 7033. | Amomus — Pi. 120. ¹ |
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| Acorus — Lep. 3069.* — Met. 7040. | Anamirta — Lep. 652. |
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| Agrostis — St. 472. | Auonacea — Oph. 7321. |
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| | Arbutus — Cer. 5998. — Sp. 423. |
| | Arctagrostides — Pl. 7093. |
| | Arctostaphylos — Ve. 526. |
| | Ardisia — Ca. 534. |
| | Arenaria — Sp. 439. 6059. — Ve. 6035. |
| | Arrhemia — Pod. 52. |

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 O. 7138.
 Aspicilia — Ph. 396. — Pha. 498. —
 Ti. 593. 597.
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 Astragalus — Sp. 6061.
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 564.
 Diatrype Nect. 7197. — Lophi. 7356.
 Dichondra — Ve. 531.
 Dicotyledoneæ — Py. 3861*.
 Dimelæna Pha. — 505.
 Dipsacus — O. 7131.
 Donax — Didy. 580.
 Doryenium — Lep. 6127.
 Draba — Sp. 6056.
 Dracæna — Pl. 7088. 7089. — Lophol.
 740.
 Dryas — G. 363. — Sp. 446. — Li.
 510. — Ve. 519. Didy. 573.
 Drymis A. 216. — Sp. 6048.
 Ehium — Ce. 297.
 Elymus — Pl. 7091.
 Empetrum — Ph. 385.
 Epilobium — A. 206. — Tr. 6021. —
 Sp. 440 — Did. 483. — Lep. 6134.
 — Cly. 694. 7074.
 Erica — V. 5895. — An. 5928. — Did.
 6079. — Ve. 528.
 Eryngium — Lep. 6129.
 Erigeron. — Diap. 6099. — Lep. 669.
 Erysimum — Sp. 6062.
 Eucalyptus — Eu. 104*. — A. 193. —
 Me. 240. — Po. 315. — Diap. 548.
 Didy. 585. — Chæ. 695. — Met.
 7025. 7035. — Te. 7105. — Ple.
 7116. — Cl. 7158. — Nect. 7194.
 7200. — Micr. 5390*. — Lem. 7377.
 Hyt. 7380. — Hypod. 7398. — Acr.
 7403.
 Eucla — A. 198.
 Eugenia — Me. 285. — Hy. 347. —
 Ac. 7054. — Do. 7302.
 Eupatorium — Ant. 5933. — Lep. 669.
 — Mon. 7314.
 Euphorbia — Gn. 489. 490. — Sp.
 1996*. — Diap. 6100.

- Euphorbiaceæ — D. 226. — Hypoc.
 251. — Hys. 7365.
 Eutypella — Op. 7241.
 Evansia — Sp. 413.
 Evolvulum — Pa. 612.
 Evonymus — Lep. 665.

 Fagus — M. 184. — V. 269. 270. 274.
 — Mel. 514. Læ. 6001, — Diap. 543.
 — Am. 6115. — Melan. 6122. —
 Va. 6125. — Melano. 700. — Z.
 7064.
 Ferula — Met. 7028.
 Ficus — Cer. 5995. — Bo. 6023. —
 Phy. 7271. 7273. — Mu. 7296. —
 Gl. 7385.
 Filices — Nect. 7192.
 Foeniculum — Lep. 6133.
 Fourcroya — Lep. 677. 678.
 Fragaria — Sp. 445.
 Fraxinus V. 262. 276. 5896. 5898. —
 Sp. 412. 6037. 6038. — Diap. 562.
 567. — Va. 634. 625. 636. — K. 6146.
 Fuchsia — Did. 473.

 Galega — Diap. 2526*.
 Galeopsis — Did. 6080.
 Galium — Nect. 7184. — Bri. 7366.
 Gardenia — Sp. 6043.
 Garrya — Thy. 7122. — Aul. 7370.
 Gaultheria — A. 199. — Ve. 529.
 Genista — Diap. 558.
 Gentiana — Ve. 6088. — Ma. 645. O.
 7133.
 Geranium — S. 182. — Ph. 384. —
 Diap. 557. 571. — Lep. 654. — O.
 4042*.
 Gladiolus — Sp. 6064.
 Gleditschia — Pleo. 7237. 6176.
 Glyceria — Cla. 7244.
 Glycines — Diap. 546.
 Gnaphalium — O. 4018*.
 Gordonia — Me. 235. — Sp. 6052.
 Graminaeæ — Sp. 6065. 6066. 6067.
 — Did. 6081. — Lep. 684. — Ep.
 7250. — Sci. 7310.
 Graphis — Pha. 504.

 Grewia — A. 1703.
 Guetteria — Phy. 7278.
 Gymnadenia — Sp. 462.

 Hæmatomma — Ti. 604.
 Hakea — Didy. 579. — Gl. 7386.
 Hedera — Met. 6148.
 Helichrysum — An. 5930. — Sp. 447.
 Helleborus — Diap. 6108.
 Heraclium — Melanos. — 7163.
 Heteromeles — Me. 243. — Ca. 248. —
 Hypod. 7398.
 Hieracium — Sp. 1996.
 Hierochloa — Lep. 686.
 Hippophaës — Te. 3894.
 Hydrangea — Ve. 532.
 Hypericum — Bo. 409. — Sp. 6058.
 Hypoxylon — Am. 619.
 Hyptis — Ro. 7305.
 Humulus — Did. 2166*. — O. 7130.

 Ilex — A. 5880. — Ph. 386. 390. —
 Sp. 6050. — Diap. 6097. — Met.
 7034. — Sa. 7342.
 Inula — Lophid. 7361.
 Iris — Læ. 372.

 Juglans — Calos. 5894.
 Juniperus — Ca. 247. — V. 264. —
 Læ. 6008. — Sp. 6072. — Am. 617.
 — Z. 6152*.
 Juncus — Sp. 6070. — Hypo. 7206.
 Jva — Ph. 6017.

 Kalmia — Sp. 427.
 Körberliella — O. 7142.

 Lampsana — Lep. 2928*.
 Lathyrus — Eur. 7289. — Lep. 6134.
 Lauraceæ — Phy. 7265. — Se. 7337.
 — Lophod. 7399.
 Laurus — R. 311. An. 322. — Gn. 492.
 — Hypo. 7203.
 Lavatera — V. 272.
 Lecanora — Ph. 393. — Did. 486. 488.
 — Pha. 500. 506. — Didy. 588. —
 Ti. 599. 604. 608. — O. 7141.

- Lecidea — Didy. 590. — Ti. 604.
 Lecidella — Did. 486.
 Leguminosæ — Pl. 7083. — Do. 7304.
 lenzites — C. 5917.
 Leucadendron — A. 195.
 Leucojum — Pl. 7087.
 Leucospermum — A. 195.
 Lencothoës — Læ. 6009.
 Libanotis — Lep. 650.
 Licania — A. 197.
 Lichenaceæ — Ti. 598. 603. 604. 606.
 Lindera — Cl. 5882.
 Liquidambar — Cry. 410. — Eut. 571*.
 Liriodendron — Sp. 6046. — Didy. 577.
 Litsea — Do. 7300.
 Lonicera — Diap. 6103. — L. 191. —
 Met. 7027. 7062. — Tre. 6142.
 — O. 6170. — Dot. 7311. — Glo.
 7388.
 Lucea — Me. 236. — Mi. 7243. —
 Phy. 7285.
 Luprinus — V. 271. — Did. 482. —
 Diap. 570. — Pl. 7077. 7078. — Nect.
 7183.
 Luzula — P. 381. — Met. 3436.* —
 Phy. 7280.
 Lycium — Didy. 6110. 6111.
 Lycopodium — Lep. 690.
 Lysimachia — Ma. 645.
 Lythrum — Met. 7018. — Loph. 5433*.

 Magnolia — Api. 5876. — Di. 292. —
 Læ. 6004. — Ve. 522. 523. — Diap.
 6093. — Nect. 7185. — Hyp. 7218.
 Malpighiaceæ — Phy. 7264.
 Mangifera — Sp. 426.
 Matthiola — Didy. 576.
 Megarrhiza — Didy. 478. 479.
 Melastomaceæ — Phy. 7261. 7262. —
 Lem. 7378.
 Medicago — Lep. 653.
 Melaleuca — Læ. 6007. — Me. 285.
 Melastomaceæ — D. 228.
 Melia — Cr. 283. — Di. 5908. — Me-
 lo. 7015.
 Melianthus — Sp. 438. — Phy. 6177.
 Melilotus — Sp. 442.

 Meliola — Nect. 7199. — Cal. 6229.
 Menispermum — Microsph. 57. — V.
 273.
 Mercurialis — Nect. 7196.
 Mesembryanthemum — Met. 7022.
 Mimosa — Pl. 7086.
 Mimulus — Am. 618.
 Monesia — Læ. 377.
 Monocotyledoneæ — Py. 3861*. —
 Nect. 7186.
 Morus — V. 259. 260. — Eut. 280.
 571*. — Ant. 1097*. — Sp. 421. —
 Z. 6155. — Pl. 3730. 7085*. — Hy-
 ste. 7395.
 Mulgedium — Læ. 374.
 Mühlenbergia — Sp. 6069.
 Musa — Dil. 7149.
 Myginda — Sp. 421.
 Myrica — Diap. 6091. — Me. 232. —
 Met. 7028. — Au. 7291.
 Myrtaceæ. — U. 183. — Lin. 7148. —
 Cal. 7226. — Phy. 257. — Mic.
 7332. — Se. 7334.
 Myrsines — Phy. 7258.
 Myxogastrum — El. 7157.

 Nectandra — Mor. 7363.
 Negundo — Cu. 3958*.
 Nemopanthes — M. 185. — Ve. 525.
 Nyssa — Lophid. 6179.

 Oenothera — Ce. 5915. — Sp. 450.
 Olea — A. 5881. — D. 225. — I. 400.
 — Ant. 5935. — X. 5943. — Sp.
 6039. — Did. 6076. — Am. 6117.
 — Z. 7058*. — Lem. 7376. — Hy-
 pod. 7396.
 Oplismenum — Phy. 5132*.
 Opuntia — R. 313.
 Orchidæ — Mel. 517.
 Orobis — Sp. 1948*.
 Orontium — Læ. 368.
 Ostrya — Tr. 6022. — Va. 632.
 Osyris — D. 223. — Par. 7232. — Do.
 7301.

 Pachypleurum — Sp. 456.

- Padum — La. 7050.
 Palmæ — Ph. 392. — Myi. 7323. 7324.
 Panax — Sp. 6053.
 Papaver — Sp. 453.
 Parmelia — Ph. 396. — Pha. 508.
 Paronychia — Læ. 6013. — Pl. 7081.
 Paspalum — Phy. 5132*.
 Pastinaca — O. 6168.
 Pavetta — A. 1771.
 Peijoa — Rhy. 622.
 Peltigera — O. 7140.
 Pennisetum — Ba. 7249.
 Pentanisia — Pa. 6114.
 Pentatemon — Tr. 7375.
 Persea — A. 207. 212. 213.
 Persica — Met. 3442*.
 Petrocallis — Sp. 6057.
 Phaca — Pl. 7084.
 Phaseolus — Micr. 7340.
 Philæum — Ph. 6019.
 Phlyctis — Sor. 609.
 Phoradendron — Va. 633.
 Phormium — An. 323. — Lep. 679.
 Phragmites — Lep. 3086*. 688. — Met. 7038. — Met. 6151.
 Physalis — Diap. 6102. — Lep. 647.
 Physma — Met. 7041.
 Pilocarpum — Scu. 7333.
 Pinus — A. 5879. — An. 320. — Sp. 414. — Mel. 6086. — Ne. 621. — Melano. 698. — Myst. 5701. Tre. 7011. — Z. 7066. — Hypo. 7211. — Op. 7240. — Pe. — 7341. — Aul. 7369.
 Pireunia — C. 192.
 Pirus — R. 312.
 Pistacia — Ant. 5934. — Sp. 6051. — Diap. 6107. — Melano 6137.
 Pittosporum — Sp. 422.
 Placodium — Did. 487. — Ti. 600.
 Plantago — A. 5884. — Lep. 6131. 6132. — Pl. 7080. — Te. 6165.
 Platanus — Microsph. 312. — Eut. 279. — Dia. 5913. Læ. 6000. — Sp. 6033. — Lep. 6130. — Ph. 1660*. — N. 354.
 Poa — Did. 485. — Didy. 6113. — Pl. 7094.
 Podocarpus — Sp. 6030. — Cor. 7153. — Tri. 7154.
 Polyblastia — Ti. 597.
 Polygonum — Ant. 5933. — Læ. 6011. — Pl. 6072.
 Polygonatum — Læ. 6010.
 Polypodium — Læ. 380.
 Polyporus — Cera. 7057. — Melanos. 7161. — Hyp. 7167. — Hypo. 7219. 7220. 7224.
 Populus — Hyp. 5975. — V. 275. En. 284. — U. 311. — Dia. 296. — Cer. 362. 1551*. — Bo. 401. — Sp. 6035. — Diap. 549. Am. 616. — Melan. 6124. — Melano 7008. — K. 6146. — Enc. 3585*. — Cu. 3973. — Loph. 7349. — Lophid. 7362.
 Parocyphus — Pha. 503.
 Potentilla — Sp. 444. — Sph. 7046. Mic. 7329.
 Primula — Lep. 672.
 Prinus — Sp. 6032.
 Protea Did. 480.
 Prunus — Sp. 1899*. 6073. — V. 267. — Diap. 5533. 561. Cu. 391.
 Psamma — Lep. 671.
 Psora — Pha. 507. — Ti. 594.
 Psoromas — Pha. 496.
 Ptelea — O. 1626.
 Pteris — P. 383. — Sp. 466. — Phy. 7288.
 Punica — Cæ. 5892. — Melano 6139. — O. 6171.
 Pyrola — Læ. 364.
 Quebeaehia — Hy. 349. — Dot. 7313.
 Quercus — S. 181. — M. *58. — E. 186. — A. 200. 201. 203. 204. 205. 208. 214. — D. 222. — Cæ. 252. — B. 256. — V. 266. — Ent. 5900. 5902. — Di. 287. — R. 309. — An. 5929. — Ant. 328. — Læ. 367. 369. 370. — Ph. 388. 389. — Cry. 6027. Sp. 6028, 6029. — Did. 6073. 6079. — Gn. 6083. — Ve. 524. — Diap. 547. 6105. — Didy. 586. — Am. 613. — Ot. 6121. — Massa. 6125. —

- Va. 641. — Melano. 700. — Z. 6156.
 — Calosp. 6157. — Her. 7055. —
 Te. 7112. — Wi. 7113. — Cha. 6172.
 — Cal. 7227. — Mic. 7328. — Loph.
 7350. — Lophi. 5417*. 7358. — Aul.
 3767. 7368. — Gl. 7384. — Gle. 5744*
 7389.
- Ranunculus — Sp. 435. 436. — Lep.
 657. Met. 7019.
- Rapistrum — Sp. 6062.
- Rhamnus — Ca. 249. — Di. 5910. —
 Diap. 551. — Tre. 6143. — Te. 6162.
 6163. — Bag. 7253.
- Rhizocarpus — Ti. 694. 595. 606.
- Rhododendron. — A. 194. — Me. 233.
 — Læ. 378. — Sp. 6042. — Lep.
 665. — Melano 6140.
- Rhus — Ant. 327. — Sp. 6049. —
 Diap. 6102. — Wi. 7114. — Oph.
 7320.
- Ribes — V. 268. — Sp. 420. — Ma.
 642. — Lep. 661. — Melano. 699.
 — Met. 7032. — Te. 7111. — Fe.
 4504*.
- Ricinus — Læ. 366.
- Rinodina — Ti. 604.
- Robinia — Ent. 5901. — Diap. 566.
- Rosa — Did. 475. 476. — Pr. 572. —
 Lophid. 7355.
- Rosmarinus — Te. 6161.
- Rubia — Diap. 6101.
- Rubus — A. 211. Me. 239. — Cr. 5906.
 — Læ. 373. 2561*. — Tric. 6020. —
 Lep. 660. — Her. 3212* — Loph.
 7348.
- Rumex — Diap. 6098.
- Ruprechtia — Phy. 7268.
- Ruscus — An. 5925.
- Rutaceæ. — Me. 284*.
- Ruta — Pl. 6159. — Cu. 6167.
- Sabal — Dia. 5911. — Hypoco. 5921.
 — An. 5926. 5932. — Sp. 460. —
 Didy. 575. — Lep. 6135. — O. 7139.
- Saccharum. — A. 218. — An. 319. —
 Ph. 391.
- Salix — Ce. 298. — R. 316. 5924. —
 Hyp. 5965. — Ph. 6018. — Did. 474.
 — Mel. 6085*. 6086. — Ve. 2288. —
 Diap. 555. 556. 569. — O. 1625. —
 Am. 6116. — Va. 637. Lep. 664. 670.
 — Melano. 699. 7003. 7006. — Mas.
 7017. — Z. 7065. 6152. — Py. 7101.
 — Te. 7106. 7107. — O. 7136. —
 Lin. 7145. — Hypocre. 6173. —
 Loph. 7346. — Try. 7381. — Hyste.
 7390. — Lophi. 5416*.
- Salsola — Lep. 6128. — Met. 6147.
- Salvadora — Do. 7299.
- Salvia — Molano. 7009. — Eu. 7121.
- Sambucus — Cr. 5905. — R. 314. —
 Sph. 7044. — Eu. 7120. — O. 7134.
 — Lophi. 7325. 7357.
- Sapindaceæ — H. 289. — Sp. 417. 418.
 — Cal. 7230. — Phy. 7266. — Mic.
 7327.
- Sarcothamnus — C. 5918. — Lep. 665.
- Sassafras — Sp. 416. — Gn. 493.
- Saxifraga — Did. 481. — Pl. 6158.
- Scabiosa — Sph. 7048.
- Scheuchzeria — Sp. 463.
- Scilla — Ha. 307.
- Scirpus — Sp. 2049*. — Gl. 8387.
- Scrophularia — Sp. 1996*. — Diap.
 563. — Lep. 2019*. — O. 7132.
- Secale — Py. 7104.
- Sedum — Pl. 7075.
- Senecio — Sp. 6055.
- Sequoja — Am. 615.
- Setaria — Ba. 7249. — Phy. 7282.
- Sida — A. 1701. 1702.
- Siegortia — Ti. 606.
- Silene — Met. 7021.
- Smilax — Me. 244. — Met. 7039.
- Solanaceæ — H. 189. — D. 226.
- Solanum — Mo. 187. — Ch. 301. —
 Melanos. 7162. — Se. 7334.
- Solorina — Pha. 2232*. — Pl. 7095.
 — Pico. 6175.
- Sophora — Sp. 423. — Melano 6141.
 — Te. 6166. — Cal. 6174.
- Sorbus — Loph. 7347.
- Sparganium — So. 393.

- Spartina — Lep. 675. 680. 681. — O. 7128.
 Spathycarpa — Phy. 7269.
 Sphyridium — Lep. 692.
 Spiræa — Pod. 51.
 Sponia — A. 2311.
 Sporastatia — Didy. 591.
 Squamaria — T. 592.
 Staphylea — Lep. 663. — O. 7144. — Lophi. 7359.
 Stereocaulom — Didy. 590. — Ti. 601. — Lep. 691.
 Stereum — Lep. 6136. — Nect. 7193. 7195.
 Sticta — Ho. 7316.
 Styphelia — Nect. 7179.
 Styrax — Li. 511. 512. — Sch. 7364.
 Spiræa — V. 257. — Ma. 645.
 Succisa — Lep. 667.
 Symphoricarpus — Microsph. 56. — Eut. 278.
 Syringa — Bo. 404.

 Tabebuia — Mu. 7395.
 Taxodium — Sp. 6031.
 Tecoma — Sp. 6037. — Diap. 568.
 Teconia — Mu. 7295.
 Thalictrum — Sp. 437.
 Thelidium — Pha. 495.
 Thibandia — Bag. 7252.
 Tuja — Sp. 433.
 Thypha — Didy. 584.
 Tilia — Cœ. 251. — Sp. 464. 6034. — Herc. 6090. — Diap. 555. — Th. 7058. — Lophi. 7354.
 Todea — Sph. 7045.
 Tragopogon — Lep. 651.
 Trichilia — Vi. 7326. — Se. 7336.
 Trichomanes — Sp. 468.
 Trifolium — Sp. 443. 453. — Sph. 7047. — Py. 7102.
 Trithrinax — Phy. 7287.

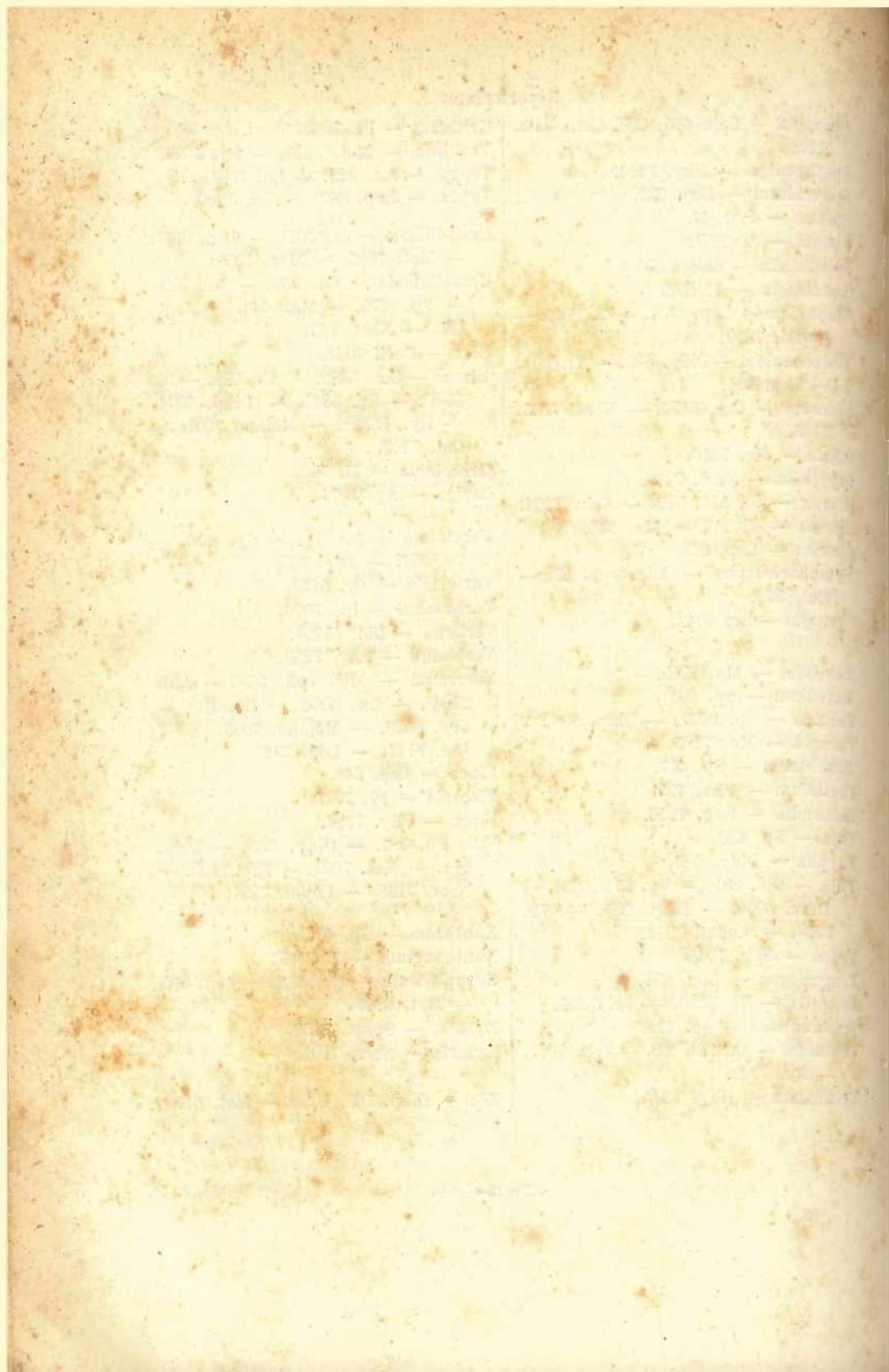
 Triticum — Pl. 7090.
 Trollium — Met. 7020. — Py. 7099.
 Tsuga — An. 325. — La. 7051.
 Typha — Lep. 683. — Sci. 7309.

 Umbelliferæ — A. 2071. — Lep. 659. — Met. 7023. — Maz. 7255.
 Umbellularia — Ca. 250. — An. 321. — Sp. 425. — Ma. 644. — Lep. 606. — Nect. 182.
 Ulex — Ceri. 7042.
 Ulmus — Cœ. 5889. — Cr. 282. — Di. 5909. — Sp. 6041. — Diap. 6094. — Hy. 1333*. — Melano 7001. — Cal. 7228.
 Urceolaria — Ti. 596.
 Urtica — Ap. 6071.

 Vaccinium — A. 217. — Sp. 430. — Ve. 527. — Mic. 7330.
 Variolaria — Or. 5878.
 Verbascum — Pl. 7076.
 Verbena — Did. 11291.
 Verbesina — Phy. 7259.
 Viburnum — Microsph. 351. — Ant. 21661. — Læ. 6006. — Bo. 402. — Cry. 6026. — Melano. 7005. — Lin. 7147. — Lop. 7345.
 Vinca — Lep. 648.
 Viscaria — Pl. 7071.
 Vitex — Phy. 7284.
 Vitis Ph. 387. — Diap. 559. — Didy. 574. — Met. 7031. — Thy. 7123. — Nect. 7188. — Lophi. 7351.

 Xanthium — Sp. 454.
 Xanthoxylum — Z. 7067.
 Xerophyllum — A. 5885. — Lep. 676. — Met. 6149-
 Xylaria — Sphæ. 7160.
 Xylaria — Nect. 7191.
 Zea — Diap. 565. 6180. — Met. 6150.





SPHÆROPSIDÆ Lév. reform.

Fam. 1. Sphæricidæ Sacc.

Sect. 1. Hyalosporæ Sacc.

PHYLLOSTICTA Pers. — Sacc. Syll. III, p. 3.

* 1. **Phyllosticta sphæropsidea** Ell. et Ev. in Bull. Torr. bot. Club. 4213
1883, p. 97. — Maculis rufo-brunneis, margine pallide luteo cinctis, sparsis, 1-2 cm. diam., vel confluentibus et latioribus; peritheciis sparsis, punctiformibus, immersis, sursum perforatis, in pagina sup. foliorum prominulis, sed epidermide tectis; sporulis globosis vel late ellipsoideis, hyalinis, nucleis minutis faretis, nucleis uno v. duobus majoribus, 12-15,5 \times 8-10, in basidiis *Sphærospidium* similibus insertis.

Hab. in foliis vivis *Æsculi* Hippocastani, Vineland Amer. bor. (D. C. BIDWEL).

* 7. **Phyllosticta Treleasei** Berl. et Vogl. *Phyll.* sp. Trel. Paras. Fungi 4214
Visc. p. 17. — Maculis rotundatis vel oblongis, 3-8 mm. diam., rufo-brunneis; peritheciis minutis, atris; sporulis ellipsoideis, hyalinis, 2-4 \times 7-8, unicellularibus.

Hab. in foliis *Pruni serotinæ*, Madison Amer. bor. — Verisimiliter a *P. serotina* non distinguenda.

* 8. **Phyllosticta Passerinii** Berl. et Vogl. *Phyllosticta Mahaleb* Pass. 4215
Fung. Gall. novi, in Jour. d'Hist. nat. 1885, n. 4, pag. 16. — Maculis subrotundis, minutis, fuscis, arescendo ochraceis, margine tenui elevato cinctis; peritheciis paucis, hinc inde congregatis, globoso-lenticularibus, pertusis; sporulis bacillaribus, minimis, 2 $\frac{1}{2}$ \times 3 $\frac{3}{4}$, hyalinis.

Hab. in foliis languidis *Pruni Mahaleb* in Gallia (BRUNAUD). « Non *Ph. Mahaleb* Thüm. — Sacc. Syll. III, p. 5 ».

* 13. **Phyllosticta rubra** Peck in Thirty-fifth Rep. St. Mus. Bot. 1884, 4216
p. 138. — Maculis parvis, angulatis vel irregularibus, quandoque confluentibus, rubris; peritheciis 1-5 in quaque macula, epiphyllis, minutis, nigris; sporulis late ellipticis vel subglobosis, 8 \times 6, hyalinis.

Hab. in foliis vivis *Cratægi tomentosæ*, Albany Americæ borealis.

- *28. **Phyllosticta variabilis** Peck in Thirty-fifth Rep. St. Mus. Bot. 4217
1884, p. 138. — Maculis parvis vel majusculis, suborbicularibus
vel irregularibus, brunneis aut purpureo-brunneis, centro primum
areolis aridis, albis punctato, denique undique aridis; peritheciis
minutis, epiphyllis, nigris; sporulis oblongo-ellipsoideis, 5-7 \approx 2,5-3.
Hab. in foliis vivis Rubi odorati, Albany Amer. bor.
37. **Phyllosticta Pseudacaciæ** Pass. Fung. Gall. no.: in Journ. d'Hist. 4218
nat. 1885, n. 4, p. 54. — Maculis parvis, subrotundis, fuscis, are-
scendo fusco-cinereis; peritheciis minutis, nigris; sporulis minutis-
simis, bacteriformibus.
Hab. in foliis vivis Robiniæ Pseudoacaciæ pr. Saintes
(Charente-Inférieure) in Gallia (BRUNAUD).
- *38. **Phyllosticta Cytisorum** Pass. in litt. Brunaud in Rev. Myc. 4219
1886, p. 139. — Peritheciis sparsis in maculis aridis, irregulari-
bus, epiphyllis, subglobosis, atris; sporulis oblongo-ellipticis, hya-
linis, crassiuscule binucleatis, 5 \approx 2,5; basidiis multo longioribus.
Hab. in foliis Cytisi Laburni, Prôguillac Galliæ (BRUNAUD).
- *52. **Phyllosticta Stephanoti** Grove in Journ. of Bot. 1886. — Ma- 4220
culis rotundatis vel irregularibus, albidis, linea tenui, fusco-nigra
cinctis; peritheciis epiphyllis, numerosis, sparsis, atris, lenticulari-
bus, depresso-papillatis, $\frac{1}{4}$ mm. diam., epidermide ostiolo pertusâ;
sporulis oblongis, utrinque rotundatis, 12-16 \approx 4-5, hyalinis.
Hab. in foliis Stephanoti, Sutton Warwickshire Britanniæ.
— A *Ph. Asclepiadearum* peritheciis sporulisque multo majori-
bus differt.
- *53. **Phyllosticta Leucothœes** Ellis New. North Am. Fung. in Am. 4221
Nat. 1884, p. 1264. — Peritheciis in parte superiore foliorum de-
colorata, distincte-marginata, brunneo-rubiginosa sparsis, globosis,
150-200 μ . diam., parcis, parenchymate immersis, apicibus vix pro-
minulis, sed epidermide tectis; sporulis ovato-oblongis, 15-21 \approx
6-7, granulosis vel 2-3-nucleatis.
Hab. in foliis Leucothœes acuminatæ, Green Cove Springs
Amer. bor.
- *55. **Phyllosticta Epigeæ** Peck in 38 Rep. Stat. Mus. p. 94. — Ma- 4222
culis latis, irregularibus, brunneis vel rufo-brunneis; peritheciis
minutis, 110-130 μ . diam., epidermide tectis, erumpentibus, epi-
phyllis, atris; sporulis ellipticis, 8 \approx 4, hyalinis.
Hab. in foliis vivis Epigeæ repentis, Caroga Amer. bor. 4223
- *56. **Phyllosticta Gaultheriæ** E. et E. in Jour. of Myc. I, p. 153. —
Maculis amphigenis, sparsis, atro-roseo-purpureis, minutis, 1-2

mm., margine fusco-purpureo cinctis; peritheciis amphigenis, sub-lenticularibus, atris, crasse cellularibus, leniter prominentibus, cuticula tectis, 100-115 μ . diam.; sporulis ellipticis, hyalinis, granularibus, 5-7 \simeq 4-5.

Hab. in foliis vivis Gaultheriæ procumbentis, Newfield Amer. bor.

- * 57. **Phyllosticta campestris** Pass. in litt. Brun. in Rev. Myc. 1886, 4224 p. 139. — Maculis parvis, angulosis, brunneis, centro pallidioribus, subinde folium ad marginem decolorantibus; peritheciis minutis, punctiformibus, paucis, nigris; sporulis minutis, oblongis, hyalinis, enucleatis, 2 \simeq 1.

Hab. in foliis Aceris campestris prope Saintes Galliæ (BRUNAUD).

- * 58. **Phyllosticta fraxinifolia** Pass. in litt. Brun. in Rev. Myc. 1886, 4225 p. 139. — Maculis epiphyllis, albis, suborbicularibus, minutis, non vel vix brunneo-marginatis; peritheciis paucis, minutis, atris; sporulis oblongis, hyalinis, obscure biguttulatis, 5 \simeq 2,5.

Hab. in foliis Negundinis fraxinifoliæ, Saintes Galliæ (BRUNAUD).

- * 62. **Phyllosticta Alaterni** Pass. in litt. Brun. in Rev. Myc. 1886, 4226 p. 139. — Maculis orbicularibus, albo-griseis, amphigenis, nigro-brunneo-marginatis; peritheciis sparsis, paucis, parvis, globulosis, atris; sporulis ovoideis, hyalinis, eguttulatis, 5 \simeq 3,5-4.

Hab. in foliis Rhamni Alaterni, Saintes Galliæ (BRUNAUD).

- * 69. **Phyllosticta Arbuti-unedonis** Pass. Fung. Gall. novi, in Jour. 4227 d'Hist. nat. 1885, n. 4, p. 16. — Peritheciis minutissimis, atris, in maculis e fusco-albicantibus, margine tenui, elevato-brunneo-cinctis; sporulis exiguis, elliptico-oblongis, hyalinis.

Hab. in foliis languidis Arbuti Unedonis, prope Brenil-Magné, Saintes in Gallia (BRUNAUD).

- * 75. **Phyllosticta Lantanoidis** Peck in 38 Rep. St. Mus. pag. 94. — 4228 Maculis latis, suborbicularibus, cinereis, sæpe brunneo-marginatis; peritheciis minutis, 100 μ . diam., vix prominulis, epiphyllis, atris; sporulis ellipticis, binucleatis, 6-8 \simeq 4, hyalinis.

Hab. in foliis vivis Viburni lantanoidis, Caroga Amer. bor. — Differt a *P. Tinea* magnitudine atque sporulis.

- * 76. **Phyllosticta Viburni** Pass. in litt. Brunaud in Rev. Myc. 1886, 4229 p. 139. — Maculis irregularibus, majusculis, griseis vel griseo-ro-seis, crasse rufo-brunneo-marginatis; peritheciis paucis, sparsis,

minutis, nigris; sporulis oblongo-navicularibus, biguttulatis, 10-12 \approx 2,5-3.

Hab. in foliis Viburni Tini, Saintes Galliæ (BRUNAUD).

- * 85. **Phyllosticta Thunbergii** Wint. in Hedw. 1885, I. — Peritheciis 4230
epiphyllis, gregariis, secus nervos tenuiores dispositis, macula magna, indeterminata et irregulari, pallidissime flava, centro obscuriori insidentibus, hemisphæricis, atris, nitidis, membranaceis, 150-160 μ . latis; sporulis ovatis, subpiriformibus seu late ellipticis, plerumque subirregularibus, hyalinis, intus granulosis, 12-14 \approx 8-9.

Hab. ad folia viva Cocculi Thunbergii prope Tokio Japan (КЕЕК).

- * 86. **Phyllosticta abortiva** E. et K. in Journ. of Myc. I, p. 4. — Ma- 4231
culis brunneis, suborbicularibus, $\frac{1}{4}$ -1 cm. diam., margine fusco, leniter elevato; peritheciis innatis, perforatis, minutis, atris et sparsis in maculis; sporulis imperfecte evolutis.

Hab. in foliis Menispermii canadensis, Manhattan Americæ borealis.

- * 87. **Phyllosticta Perseæ** E. et M. in Jour. of Myc. 1885, p. 100. — 4232
Maculis brunneolo-griseis, apicem et latera foliorum occupantibus; peritheciis brunneo-atris, lenticularibus, innato-erumpentibus, epiphyllis, 150-300 \approx 60-80; sporulis oblongis, hyalinis, nucleatis, 5-8 \approx 1-3.

Hab. in foliis vivis Perseæ carolinensis in Amer. bor.

- * 92. **Phyllosticta Mentzelii** Ellis et Kellerm. in Journ. of Myc. 1886, 4233
p. 4. — Maculis amphigenis, pallidis, definitis, $\frac{1}{4}$ - $\frac{1}{2}$ cm. diam.; peritheciis immersis, sæpe epiphyllis, fere 100 μ . diam., atris; sporulis oblongis, 5-7 \approx 2 $\frac{1}{2}$ -3.

Hab. in foliis vivis Mentzelii nudæ, Kansas Amer. bor.

- * 93. **Phyllosticta symphoriella** Sacc. et March. in Rev. Myc. 1885, 4234
p. 147. — Maculis vagis, fuscescentibus, amphigenis; peritheciis sparsis, lenticularibus, punctiformibus, pertusis; sporulis ellipsoideis, olivaceo-fuscellis, 4-6 \approx 3.

Hab. in foliis Symphoricarpi in Belgio. — A *Ph. Symphoricarpi* differt sporulis coloratis, quibus ad *Coniothyrium* aliquid accedit.

- * 96. **Phyllosticta neurospilea** Sacc. et Berl. Misc. Myc. II, n. 37. — 4235
Maculis epiphyllis, nervis exacte limitatis, hinc angulosis, rufochraceis; peritheciis globoso-depressis, parcissimis, innato-prominulis, punctiformibus; sporulis ovato-oblongis, 8-10 \approx 5-6, intus

granulosis, hyalinis; basidiis brevibus e basi stromatica, densiuscula oriundis.

Hab. in foliis *Vitis antarcticæ*, Logan Australiæ.

- * 105. **Phyllosticta sinuosa** Ellis New Spec. of North Am. Fungi in 4236
 Amer. Nat. 1884, p. 1264. — Maculis orbicularibus, 1,5-6 mm.
 diam., sæpius 2-3 mm. diam., rufo-brunneis, demum albescentibus,
 tumidulis, margine rufo-atro; peritheciis epiphyllis, sparsis, lenti-
 cularibus, 150 μ . diam., sæpius ad margines macularum; sporulis
 oblongis vel clavato-oblongis, hyalinis, 3,5-15 \approx 1,5.

Hab. in foliis *Oleæ americanæ* Green Cove Springs Ame-
 ricæ borealis.

- * 106. **Phyllosticta Fraxini** Ell. et M. in Am. Nat. 1884, p. 189. — 4237
 Maculis brunneolis, margine obscure purpureo, $\frac{1}{2}$ -1 cm. diam.;
 peritheciis epiphyllis, sparsis, lentiformibus, atris, 150 μ . diam.;
 sporulis oblongis vel oblongo-ellipsoideis, hyalinis, 1-2 nucleatis,
 7-9 \approx 2,5-3.

Hab. in foliis *Fraxini*, Bethlehem Amer. bor.

- * 111. **Phyllosticta Owaniana** Wint. in Hedw. 1885, I. — Peritheciis 4238
 in maculis fumoso-griseis, demum glaucescentibus, margine lato,
 fusco, determinato-circundatis, rotundato-angulatis vel irregulari-
 bus, interdum confluentibus, 9 \approx 4, epiphyllis, globosis, poro per-
 tuis, immersis, demum erumpentibus, atris, membranaceis, 85-
 90 μ . latis; sporulis ovatis, subpiriformibus vel ellipsoideis, hya-
 linis, 10-12 \approx 8.

Hab. in foliis languescentibus *Brabeii stellatifolii* ad
 pedem montis *Tabularis* Bras. (MAC-OWAN).

- * 121. **Phyllosticta garryæcola** Pass. in litt. Brun. in Rev. Myc. 1886, 4239
 p. 140. — Maculis rotundatis vel suborbicularibus, brunneis, dein
 pallidis, demum griseo-viridibus v. griseo-brunneis; peritheciis pun-
 ctiformibus, nigris; sporulis oblongis, hyalinis, 5-6 \approx 2,5-3.

Hab. in foliis *Garryæ ellipticæ* Préguiillac in Gallia (BRU-
 NAUD).

- * 127. **Phyllosticta Gordoniæ** E. et M. in Jour. of Myc. 1885. — Ma- 4240
 culis atro-brunneis, siccis, apicem et margines foliorum occupan-
 tibus; peritheciis brunneo-atris, subglobosis, innatis, leniter erum-
 pentibus, amphigenis, 120-140 μ . diam.; sporulis hyalinis, oblongis,
 nucleatis, 12 \approx 3.

Hab. in foliis vivis *Gordoniæ lasianthi* in Amer. bor.

- * 128. **Phyllosticta terminalis** Ell. et M. Am. Nat. 1884, p. 70. — 4241
 Maculis sæpius apicem vel quandoque marginem foliorum occu-

pantibus, linea purpureo-nigra circumscriptis; peritheciis globosis, parenchymate immersis, epidermidem nigrescentem vix elevantibus; sporulis oblongis, 3-4 = 1; basidiis cylindræcis, sporulas longitudine æquantibus.

Hab. in foliis Ilicis Dahoonis, New Florida Amer. bor.

- *131. **Phyllosticta mahoniæcola** Pass. in litt. Brun. in Rev. Myc. 4242
1886, p. 140. — Maculis amplis, brunneis, non limitatis, subinde totum folium occupantibus; peritheciis epiphyllis, sparsis, epidermide supra perithecium decolorata, circum circa brunnea tectis, demum vix erumpentibus, perforatis; sporulis oblongis, hyalinis, 7,5-8 = 2,5, biguttulatis.

Hab. in foliis languescentibus Mahoniæ japonicæ, Prèguillac Galliæ (BRUNAUD).

- *133. **Phyllosticta asiatica** Cooke in Grevillea XIII, p. 91. — Macu- 4243
lis orbicularibus vel irregularibus, fuscis, margine purpureo-atro-brunneo cinctis; peritheciis paucis, in utraque pagina foliorum insidentibus, gregariis, minutis, atris, punctiformibus; sporulis minutis, hyalinis, 4 = 1,5; basidiis longioribus.

Hab. in foliis languidis Berberidis asiaticæ, Kew Britannia.

- *137. **Phyllosticta Apocyni** Trelease Prelim. List. par. Fungi of Wis. 4244
pag. 17, *Ph. Apocyni* Ellis et Mart. New North Am. Fungi in Am. Nat. 1884, p. 1264. — Epiphylla, in maculis rotundis, definite limitatis, 1-2 mm. diam., margine vix tumidulo, brunneo; peritheciis subglobosis, erumpentibus, sæpe centrum macularum occupantibus; sporulis globosis vel ovatis, 7-9, granuloso-farctis, iis *P. Asclepiadearum* latioribus.

Hab. in foliis Apocyni cannabini in Amer. bor.

- *147. **Phyllosticta Catalpæ** Ell. et Mart. in Am. Nat. 1884, p. 189. — 4245
Maculis pallide brunneis, circularibus, 5-7 mm. diam., margine obscuro; peritheciis paucis, sparsis, sæpe sterilibus, brunneis, lenticularibus, innatis, epiphyllis, 112 = 84; sporulis subhyalinis, ovatis, 5-7 = 2,5-4,5.

Hab. in foliis Catalpæ bignonioïdis, West Chester America borealis.

- *148. **Phyllosticta Pentestemonis** Cooke in Grevillea XIV, p. 90. — 4246
Maculis irregularibus, brunneis, indistincte marginatis; peritheciis subimmersis, sæpe concentrice dispositis, subinde sparsis, punctiformibus, atris; sporulis ovoideo-oblongis vel ellipsoideis, hyalinis, 5 = 3.

Hab. in foliis *Pentstemonis grandiflori*, Kew Britannia.

- * 158. **Phyllosticta circumvallata** Winter in Jour. of Myc. 1885. — Ma- 4247
culis rotundato-angustatis, griseis, linea fusco-atra, elevata circumscriptis, 5 mm. diam.; peritheciis sparsis, plerumque epiphyllis, lenticularibus, atris, membranaceis, 100-120 μ . diam.; sporulis ellipticis, utrinque acuminatis, 7-9 \approx 3 $\frac{1}{2}$ -4, nucleis 2, magnis præditis, hyalinis, continuis.

Hab. ad folia languida *Liriodendri tulipiferæ*, Missouri Amer. bor.

- * 167. **Phyllosticta corylina** Ellis New North. Am. Fungi in Amer. 4248
Nat. 1884, p. 1264. — Maculis rufo-brunneis, rotundis, 2-5 mm. diam., sæpius coalitis et ad margines foliorum dispositis; peritheciis brunneo-nigris, erumpentibus, lenticularibus, amphigenis, 90-120 μ . diam.; sporulis subhyalinis, oblongis, utrinque nucleatis, 12-15 \approx 6-7.

Hab. in foliis *Coryli americanæ*, Newfield Amer. bor. — A *Ph. Coryli* et a *Ph. corylaria* sporulis latioribus, characteribus macularum differt.

- * 176. **Phyllosticta salicicola** Thüm. Fung. Gall. novi, in Jour. d'Hist. 4249
nat. 1885, n. 4, p. 55. — Peritheciis epiphyllis, plerumque solitariis, parvis, hemisphærico-subemersis, lenticularibus, nigris, in macula plus minusve orbiculata, arescendo albo-grisea, sordide fusce irregulariterque marginata; sporulis numerosissimis, simplicibus, cylindrico-ellipticis, utrinque rotundatis, enucleatis, achrois, 3 $\frac{1}{2}$ -4 \approx 1 $\frac{1}{2}$ -2.

Hab. in foliis *Salicis albæ* prope Saintes in Gallia (BRUNAUD).

- * 184. **Phyllosticta ilicicola** Pass. Fung. Gall. novi, in Journ. d'Hist. 4250
nat. 1885, n. 4, p. 54. — Maculis rotundis, brunneis, arescendo griseo-cinereis, marginatis; peritheciis lenticularibus, minutis, numerosis, nigris; sporulis minutis, ellipticis, hyalinis, 5-6 \approx 1 $\frac{1}{2}$ -2.

Hab. in foliis *Quercus Ilicis* prope Saintes, Sanjon in Gallia (BRUNAUD).

- * 203. **Phyllosticta Libertiana** Sacc. et March. in Rev. Myc. 1885 (*Cot- 4251*
niosporium Violæ Lib.) — Peritheciis globosis, subastomis, atris, minute cellulosis, 60-70 μ . diam., dense gregariis; sporulis ellipsoideis, continuis, hyalinis, 3-4 \approx 2-2,5. Cetera ut in notis Libert et Lambotte.

Hab. in foliis *Violæ odoratæ* in Belgio.

- * 213. **Phyllosticta Sanguinariæ** Winter in Journ. of Myc. 1885. —

Maculis sparsis, rotundatis vel parum irregularibus, determinatis, arescendo-griseis vel albidis, margine distincto, fusco-purpureo, ambitu linea elevata, fusco-atra limitatis, area indeterminata, lata, fuscidula circumdatis, 1-5 mm. latis; peritheciis epiphyllis, gregariis, erumpentibus, punctiformibus, globosis, atris, 100 μ . diam.; sporulis numerosissimis, elliptico-oblongis, sæpe uno apice parum attenuatis, hyalinis, 5-7 \simeq 1,5-2,5.

Hab. ad folia viva Sanguinariæ canadensis, Missouri in Amer. bor.

- *214. **Phyllosticta althæicola** Pass. Fung. Gall. novi, in Jour. d'Hist. 4252
nat. 1885, n. 4, p. 54. — Maculis determinatis, subcircularibus vel irregularibus, sæpe confluentibus, arescendo expallentibus, non marginatis; peritheciis sparsis, minimis, nigris; sporulis oblongis, utrinque rotundatis, binucleatis, hyalinis, 7-10 \simeq 3.

Hab. in foliis Althææ officinalis prope Bric-sous-Mortagne (Charente-Inferieure) in Gallia (BRUNAUD).

- *215. **Phyllosticta papuensis** Cooke in Grevillea XV, p. 18. — Epi- 4253
phylla vel amphigena; peritheciis gregariis, punctiformibus semi-immersis, atris, nitidis, poro pertusis; sporulis linearibus, rectis hyalinis, 10 \simeq 1.

Hab. in foliis emortuis plantæ subfruticosæ, New Guinea (REV. S. CHALMERS).

- *213. **Phyllosticta Cephalariæ** Wint. in Hedw. 1885, I. — Perithe- 4254
ciis in maculis albidis, margine atro-purpureo, latiusculo, cinctis, rotundatis, angulatis vel plus minus irregularibus, demum interdum confluentibus, amphigenis, gregariis, punctiformibus, globosis, fuscis verticem versus obscurioribus, poro pertusis, demum late apertis, 60-80 μ . latis; sporulis exiguis, bacillaribus, utrinque acutiusculis, unicellularibus, hyalinis, 4-5 \simeq 1.

Hab. in foliis vivis Cephalariæ attenuatæ ad montem Roschberg prope Somerset-East Bras. (MAC-OWAN).

- *214. **Phyllosticta ivæcola** E. et E. in Journ. of Myc. 1886, p. 37. — 4255
Maculis amphigenis, parvis, 1-2 mm. diam., albescentibus, margine brunneo, vix elevatulo cinctis; peritheciis epiphyllis, punctiformibus, 75-90 μ . diam., nigris; sporulis ovato-vel oblongo-ellipsoideis, hyalinis, 4-5 \simeq 1,5.

Hab. in foliis vivis Ivæ frutescentis, Plaquemines Americæ borealis.

- *252. **Phyllosticta Araliæ** Sacc. et Berl. in Rev. Myc. 1885. — Epi- 4256
phylla; maculis flavo-cinereis, latis, linea ochracea cinctis; perithe-

ciis minutis, sparsis vel subgregariis, tectis, ostiolo epidermidem perforante demum emergentibus, nigris; sporulis ovoideis, 4-5 \approx 1 $\frac{1}{2}$ -2, pallidissime viridulis.

Hab. in pag. superiore foliorum viventium Araliæ in Algeria. 4257

- *305. **Phyllosticta Amaranthi** E. et K. in Jour. of Myc. I, p. 4. — Maculis roseo-brunneis (2-4 mm.) margine atro cinctis; peritheciis 6-12 in quaque macula, epiphyllis, erumpentibus, amplis; sporulis oblongo-ellipticis, 2-nucleatis, 9-11 \approx 3-5.

Hab. in foliis Amaranthi retroflexi, Garden City Americæ borealis.

- *308. **Phyllosticta Dodecanthæ** Trelease Paras. Fungi Viscos. p. 16. 4258 — Maculis circularibus, brunneis, circiter 3 mm. diam.; sporulis hyalinis, ovoideo-oblongis, sæpe subsphæroideis, eguttulatis, 2-5 \approx 3,5-7.

Hab. in foliis Dodecanthæ mediæ, Stoughton Amer. bor.

- *319. **Phyllosticta Cordylines** Sacc. et Berl. Misc. Myc. II, n. 36. — 4259 Maculis vagis, expallentibus; peritheciis crebris, epiphyllis, punctiformibus, globoso-depressis, pertusis, 60-90 μ . diam.; sporulis oblongis, 2-guttulatis, 4-5 \approx 1, hyalinis.

Hab. in foliis Cordylines terminalis, Tambourine in Australia.

- *320. **Phyllosticta Danaes** Pass. in litt. Brun. in Rev. Myc. 1886, 4260 p. 140. — Maculis amplis, irregularibus vel indeterminatis, griseis dein albescens, margine tenui, brunneo; peritheciis amphigenis, minutis, globosis, nigris, primum tectis; sporulis ovoideis, non guttulatis, hyalinis, 8 \approx 5.

Hab. in cladodiis Rusci racemosi in Horto Botanico Rochefort Galliæ (BRUNAUD).

- *335. **Phyllosticta coccoina** Sacc. in Rev. Myc. 1885, p. 158. — Ma. 4261 culis amphigenis, subcircularibus, amœne rubro-crocatis, anguste marginatis; peritheciis paucis, punctiformibus, atris, innatis; sporulis ellipsoideis, 7-8 \approx 6-7, hyalinis, pauciguttulatis.

Hab. in foliis Cocos nuciferæ in insula Tahiti (BRUNAUD).

- *336. **Phyllosticta palmicola** Cooke in Grevillea XIV, p. 90. — Ma. 4262 culis irregularibus, amphigenis, albido-cinereis, margine subelevato fusco; peritheciis subinnatis, atris, minutis, pertusis, plerumque numerosissimis; sporulis elliptico-cylindræis, hyalinis, 5 \approx 2.

Hab. in foliis Palmarum, Daintree Australiæ.

PHOMA Fr. em. Desm. — Sacc. Syll. III, p. 65.

- *24. **Phoma viventis** Cooke in Grevillea XIV, p. 2. — Gregaria; 4263

peritheciis punctiformibus vel leniter elongatis, minutis, atris, cuticula incolora, demum longitudinaliter fissa tectis; sporulis subfusiformibus, utrinque obtusis, enucleatis, hyalinis, 6-7 \approx 2,5.

Hab. in ramulis vivis Loniceræ, Kew Britannia.

- * 35. **Phoma Philadelphi** Cooke in Grevillea XIII, p. 93. — Peritheciis 4264
minutis, gregariis, seriatim dispositis, epidermide vix elevata tectis, cortice immersis, depressis, nigris, pertusis; sporulis cylindricis, utrinque obtusis, enucleatis, 12 \approx 2,5, hyalinis.

Hab. in ramulis Philadelphi, Kew Brit. — Habitu fructificationeque a *Ph. Landeghemia*, quæ simul occurrit, distincta.

- * 37. **Phoma Celastrinæ** Cooke in Grevill. XIII, p. 92. — Gregaria 4265
v. aggregata; peritheciis globosis, atris, epidermide tectis eamque ostiolo punctiformi, atro, nitido perforantibus; sporulis lanceolatis, utrinque attenuatis, binucleatis, hyalinis, 13 \approx 5, primo stipitatis.

Hab. in ramulis Evonymi americani, Kew Britannia.

- * 39. **Phoma elæagnella** Cooke in Grevillea XIV, p. 4. — Sparsa vel 4266
subgregaria, minuta, cuticula convexa tecta; peritheciis depresso globosis, atris; sporulis ovoideis, profusis, continuis, hyalinis, enucleatis, 5 \approx 2,5; basidiis indistinctis.

Hab. in ramis Elæagni, Kew Britannia.

47. **Phoma pithya** Sacc. Syll. III, p. 74. var. **Taxodii** Sacc. in Rev. 426
Myc. 1885. — Sporulis 7-8 \approx 2, biguttulatis, hyalinis.

Hab. in cortice Taxodii in Gallia (ANGELE ROUMEGUÈRE).

- * 54. **Phoma Pruni** Peck in 38 Rep. St. Mus. p. 95. — Peritheciis 4267
minutis, vix prominulis, subconicis, primum epidermide tectis, demum erumpentibus, atris; sporulis oblongo-ellipticis vel subfusiformibus, binucleatis, 8-10 \approx 3-4; hyalinis; basidiis longitudinem sporularum æquantibus.

Hab. in ramis emortuis Pruni virginianæ in Amer. bor.

- * 55. **Phoma Pruni-lusitanicæ** Cooke in Grevillea XIII, p. 93. — Gre- 4268
garia; peritheciis subglobosis, ad extremitatem ramulorum collectis, cuticulam vix decoloratam, ostiolis minutis perforatam, elevantibus; sporulis fusiformibus, binucleatis, hyalinis, 10 \approx 4.

Hab. in ramulis Pruni lusitanicæ, Kew Britannia.

- * 56. **Phoma Prunorum** Cooke in Grevillea XIII, pag. 92. — Dense 4269
gregaria, in ramulis minoribus, cortice elevata, non decolorata, longitudinaliter fissa tecta; peritheciis subglobosis, atris, mediæ magnitudinis; sporulis late lanceolatis, utrinque attenuatis, binucleatis, hyalinis, 10 \approx 4,5.

Hab. in ramulis emortuis Pruni Lauro-cerasi, Kew Brit.

- * 60. **Phoma opulifolia** Cooke in Grevillea XIV, p. 2. — Gregaria; 4270
peritheciis punctiformibus, depresso globosis, cuticula non decolorata, leniter elevata tectis; sporulis anguste lanceolatis, continuis, binucleatis, $10 \approx 2,5$; basidiis brevibus.

Hab. in ramulis Spireæ opulifoliæ, Kew Brit. — Nonnullis notis a *Ph. Sorbariæ* differt.

- * 62. **Phoma Amelanchieris** Cooke in Grevillea XIII, p. 93. — Sub- 4271
gregaria, corticola; peritheciis cortice immersis, cuticulam elevantibus et rumpentibus, globosis, atris, mediæ magnitudinis; sporulis subfusiformibus, obtusis, binucleatis, $8 \approx 2,5-3$; basidiis tenuibus, curvis, sporulis triplo longioribus.

Hab. in ramulis Amelanchieris, Kew Britannia.

- * 74. **Phoma aromatica** Cooke in Grevillea XIV, p. 4. — Peritheciis 4272
gregariis, cuticula leniter convexa tectis, depressis, minutis, leniter papillatis; sporulis sublanceolatis, continuis, binucleatis, hyalinis, $8-10 \approx 3-3,5$; basidiis brevibus.

Hab. in ramulis Calycanthi occidentalis, Kew Britannia.

- * 81. **Phoma Myricæ** Karst. in Hedwigia 1884, p. 6. — Peritheciis 4273
in cæspites, per peridermium erumpentes aggregatis, subsphæroides, pressione mutua varie compressis difformibusve, glabris, atris, 0,4 mm. diam.; sporulis sphæroides vel ellipsoideo-sphæroides, hyalinis vel chlorino-hyalinis, circiter 2 μ . diam. vel $3 \approx 2$.

Hab. in ramis Myricæ Galis emortuis prope Vasa Fennia.

84. **Phoma Viniferæ** Cooke in Grevillea XIII, p. 92, *Phoma viticola* 463
Sacc. Syll. III, p. 79, non *Phoma viticola* Sacc. Syll. III, n. 653.
— Sporulæ $7 \approx 4$, enucleatæ.

- * 97. **Phoma scobina** Cooke in Grevillea XIII, p. 92. — Peritheciis 4274
subcutaneis, gregariis, ad nodos congestis, cuticulam perforantibus, subglobosis, atris, depressis; sporulis fusoides vel clavatis, subinde binucleatis, hyalinis, $10-12 \approx 3-3,5$; basidiis rectis.

Hab. in ramulis Fraxini excelsioris, sociâ *Diaporthe scobinâ*, cujus est spermogonium, Kew, Darenth, Highgate Brit.

- * 98. **Phoma Forsythiæ** Cooke in Grevillea XIII, pag. 92. — Laxe 4275
gregaria; peritheciis punctiformibus, subglobosis, epidermide vix elevatâ, demum ostiolo minuto fissâ, tectis; sporulis ellipticis, minutis, enucleatis, hyalinis, $3-5 \approx 2$; basidiis brevibus.

Hab. in ramis Forsythiæ, Kew Britannia, et F. viridissimæ, Saintes Gallia. — Species omonyma cl. Brunaudii (Rev. Myc. 1886, p. 140), nil differt, nisi sporulis paullo longioribus, nempe $7-8 \approx 2-2,5$.

- *99. **Phoma Rhodoræ** Cooke in Grevillea XIV, p. 3. — Maculis apicalibus vel marginalibus latis, irregularibus, brunneis; peritheciis gregariis, minutis, punctiformibus, atris, immersis, oculo nudo vix visibilibus; sporulis numerosis, minutis, subellipticis, hyalinis, 4-5 = 2; basidiis brevibus. 4276
Hab. in foliis vivis Rhododendri, Kew Britanniaë.
- *100. **Phoma Rhododendri** Cooke in Grevillea XIII, p. 93. — Subgregaria, in sarmentis parvis, dealbatis, minuta, epidermide elevata sed vix decolorata tecta; peritheciis subglobosis, atris; sporulis minutis, ovoideis, hyalinis, enucleatis, 4-5 = 2, 4277
Hab. in ramulis Rhododendri, Kew Britanniaë.
- *101. **Phoma Jasmini** Cooke in Grevillea XIV, p. 2. — Peritheciis sparsis, cuticula tectis, prominentibus, atris, subglobosis, *Phoma domestica* latioribus et magis prominulis; sporulis subfusiformibus, binucleatis, 9-10 = 3, 4278
Hab. in ramis Jasmini officinalis, Kew Brit. — Sæpe occurrit *Ph. domestica*.
130. **Phoma Polygalæ** Cooke et Harkness in Grevillea XIII, p. 111. — Caulicola; peritheciis gregariis, subcutaneis, globoso-depressis, pertusis, epidermide nitida velatis; sporulis subfusioideis, enucleatis, utrinque obtusis, hyalinis. 4279
Hab. in caulibus Polygalæ in California (HARKNESS).
131. **Phoma lirelliformis** Sacc. Syll. III, pag. 87, var. **Tini** Brunaud 510
 in Rev. Myc. 1886, p. 140. — Sporulis oblongis, 8 = 2,5-3, biguttulatis; basidiis 15-16 = 2.
Hab. in ramis emortuis decorticatisque Viburni Tini, Saintes Galliaë.
- *135. **Phoma Beckhausii** Cooke in Grevillea XIII, p. 91. — Peritheciis subglobosis, sparsis, cortice leniter elevata tectis, indistinctis; sporulis sublanceolatis, continuis, sæpe binucleatis, 8-10 = 3, 4280
Hab. in ramulis Viburni lantanæ, sociâ *Diaporthe Beckhausii*, Dartfoord, Kew Britanniaë.
- *140. **Phoma Barbari** Cooke in Grevillea XIV, p. 3. — Peritheciis laxe gregariis, epidermide tectis, convexis, non erumpentibus, demum pertusis; sporulis ovoideis, binucleatis, hyalinis, 5 = 3, 4281
Hab. in ramulis Lycii barbari, Kew Britanniaë.
- *146. **Phoma Staphyleæ** Cooke in Grevillea XIV, p. 2. — Gregaria; peritheciis punctiformibus, cuticulâ demum nigrescente tectis, dein prominulis, tandem liberis; sporulis ellipticis, continuis, enucleatis, 5-8 = 3-4; basidiis non distinctis. 4282

Hab. in ramulis *Staphyleæ pennatæ*, *S. trifoliatæ* et *S. Colchici*, Kew Britannicæ.

- * 151. **Phoma Loti** Cooke in *Grevillea* XIV, p. 2. — Gregaria; peritheciis globosis, atris, tectis, cuticulam elevantibus, ostiolo prominente pertusam; sporulis ellipticis, hyalinis, enucleatis, $5 \approx 2$; basidiis nullis vel obsoletis. 4283

Hab. in ramulis *Diospyri Loti*, Kew Britannicæ.

- * 157. **Phoma radicans** Cooke in *Grevillea* XIII, p. 32. — Caulicola; peritheciis gregariis in maculis albicantibus, minutis, punctiformibus, applanatis, cuticula subtili tectis; sporulis numerosis, ovalibus, hyalinis, $3 \approx 1,5$; basidiis non distinctis. 4284

Hab. in ramulis vivis *Tecomæ radicans*, Kew Britannicæ. 4285

- * 158. **Phoma Bignonicæ** Sacc. Bomm. et Rouss. in *Bull. Soc. R. Bot. Belg.* 1886, p. 176. — Peritheciis sparsis, subepidermicis, nigris, minutis, $\frac{1}{4}$ mm. diam., ostiolo erumpente donatis; sporulis hyalinis, irregulariter ellipsoideis, subinde guttulatis, $4 \approx 2,5-3$.

Hab. in ramis emortuis *Bignonicæ radicans*, Tervueren Belg. — A *Ph. Tecomæ* distincta.

- * 159. **Phoma Platanoidis** Cooke in *Grevillea* XIII, p. 93. — Peritheciis subcutaneis, erumpentibus, gregariis epidermidem rumpentibus et ramulum rugosum reducentibus; sporulis fusiformibus, acutis, binucleatis, hyalinis, $7-8 \approx 3$; basidiis rectis, sporularum duplo vel amplius longis. 4286

Hab. in ramulis *Aceris pseudoplatani*, Kew Brit. — Adest simul *Calospora Platanoidis*, cujus verisimiliter est spermogonium.

- * 160. **Phoma obtusula** Sacc. et Br. *Misc. Myc.* II, p. 24. — Peritheciis hinc inde gregariis, erumpentibus, globulosis, obtusulis, $\frac{1}{4}$ mm. diam., atris, nitidulis, vix papillatis; sporulis ovato-oblongis, utrinque acutiusculis, $8-12 \approx 4$, hyalinis; basidiis brevibus. 4287

Hab. in ramulis corticatis *Aceris campestris*, Troyes Gallicæ (BRIARD).

- * 187. **Phoma crassipes** Cooke in *Grevillea* XIV, pag. 2. — Erumpens, subsparsa; peritheciis amplis, atris, opacis, subglobosis, demum apice libero; sporulis ovoideis, continuis, hyalinis, enucleatis, $6 \approx 4$. 4288

Hab. in ramulis *Broussonetiæ papyrifera*, Kew Brit.

- * 189. **Phoma Celtidis** Cooke in *Grevillea* XIV, p. 3. — Peritheciis prominentibus, convexis, laxe gregariis, cuticula tectis eamque ostiolo atro, punctiformi perforantibus; sporulis ovoideis, enucleatis, hyalinis, $5 \approx 3,5$. 4289

Hab. in ramulis Celtidis occidentalis, Kew? Britannia.

- *213. **Phoma Cunningamia** Pass. et Roum. in Rev. Myc. 1885, p. 172. 4290

— Peritheciis sparsis, punctiformibus, atris; sporulis oblongiusculis, hyalinis, basidiis filiformibus, elongatis suffultis.

Hab. in foliis aridis Cunningamiae sinensis in Horto Mimatensi Galliae.

- *220. **Phoma deflectens** Sacc. Bomm. et Rouss. in Bull. Soc. R. Bot. 4291

Belg. 1886, pag. 176. — Peritheciis ad basim foliorum gregariis, inaequaliter globoso-oblongis, depressis, epidermidem perforantibus, $1 \approx \frac{1}{2} - \frac{3}{4}$ mm. diam.; sporulis linearibus, hyalinis, biguttulatis, $7 - 12 \approx 2 - 3$; basidiis linearibus, $10 - 12 \approx 1,5$.

Hab. in foliis emortuis Araucariae imbricatae in silva Cambre Belgii.

- *222. **Phoma Abietis** Briard. in litt. — Peritheciis minutissimis, dense 4292

longitudinaliter gregariis, mox superficialibus, vix $\frac{1}{10}$ mm. diam., atris, nitidulis, subglobosis, amphigenis; sporulis oblongis, cylindraceis, utrinque obtusis, rectis, $6 - 8 \approx 2 - 3$, hyalinis; basidiis non visis.

Hab. in foliis emortuis Abietis piceae, Troyes Galliae.

- *249. **Phoma cistina** Cooke in Grevillea XIV, p. 3. — Dense gre- 4293

garia, subcutanea, subinde erumpens; peritheciis subglobosis, atris, siccitate collapsis; ostiolo interdum brevi, cuticulam perforante, subinde duplo vel triplo perithecii diametro longiore flexuoso; sporulis subcylindraceis vel fusoideis, utrinque obtusis, saepe minute binucleatis, hyalinis, $6 - 7 \approx 2,5$; basidiis circiter sporulis duplo longioribus.

Hab. in ramulis Cisti laurifolii, Kew Britanniae.

- *256. **Phoma cerasina** Cooke in Grevillea XIV, p. 90. — Epiphylla; 4294

peritheciis punctiformibus, densissime gregariis, semiimmersis, atris, nitidis, poro pertusis; sporulis subcylindricis, utrinque rotundatis, rectis, enucleatis, hyalinis, $15 - 16 \approx 3,5$.

Hab. in foliis emortuis Pruni Lauro-cerasi, Aiken S. Carol. (RAVENEL).

- *260. **Phoma Camilleae** Cooke in Grev. XIII, p. 4. — Hypophylla; 4295

peritheciis sparsis, minutis, membranaceis, vix 100μ . diam., poro pertusis; sporulis ellipticis, nucleis binis, magnis repletis, $10 \approx 5$.

Hab. in foliis Camilleae, Theae Johore Britanniae.

- *267. **Phoma quercicola** Sacc. et Briard in Rev. Myc. 1886. — Pe- 4296

peritheciis innatis, erumpentibus, nigris, nitidis, epiphyllis, approximatis, poro pertusis, in maculis griseis, irregularibus; sporulis ovato-oblongis, obtusis, continuis, hyalinis, $4 - 6 \approx 1,5 - 2$.

Hab. in pag. sup. foliorum emortuorum *Quercus*, Troyes Galliaë (BRIARD).

- *283. **Phoma Galacis** Cooke in Grevillea XIV, p. 90. — Maculis irregularibus, pallide brunneis vel cinerescentibus, indistincte marginatis; peritheciis gregariis, minutis, 80 μ . diam., basi immersis, punctiformibus, atris, nitentibus; sporulis cylindraceis, utrinque rotundatis, 2-4 nucleatis, hyalinis, 12-15 \approx 4. 4297

Hab. in foliis emortuis delapsisque *Galacis aphyllæ*, Kew Britanniaë.

- *296. **Phoma dispersa** Cooke in Grevillea XIII, p. 93. — Hypophylla; peritheciis sparsis, crassis, subglobosis, erumpentibus dein superficialibus, nigris, opacis; sporulis ellipticis, continuis, hyalinis, enucleatis, 15 \approx 6. 4298

Hab. in foliis delapsis *Platani*, Kew Britanniaë.

- *300. **Phoma millepunctata** Desm. XX, Not. p. 11. — Amphigena; maculis nullis; peritheciis innatis, minutis, numerosissimis, sparsis, approximatis, globosis, 0,075-0,1 mm. diam. utrinque prominulis, rufo-pallidis, dein fuscis, depressis; ostiolo punctiformi; sporulis paucis, oblongis, exiguis, 5 μ . longis. 4399

Hab. in foliis delapsis *Mori albæ* in Gallia. — Non *Phoma millepunctata* Penz. — Sacc. Syll. III, pag. 105, quæ *Macrophoma* (Confr. Berlese et Voglino sopra un Nuovo gen. di Sferops. in Atti Soc. Veneto-Trentina 1886).

- *325. **Phoma endorhodioides** Sacc. et Briard Champ. nouv. de l'Aube n. 12. — Peritheciis sparsis, innatis, subepidermicis, oblongis vel discoideis, nucleo roseo; ostiolo, papillato, epidermidem nigrefactam perforante; sporulis ovato-oblongis, obtusis, hyalinis, 2-guttulatis, 12-16 \approx 4,5. 4300

Hab. in caulibus siccis *Thalictri flavi*, Troyes Galliaë (BRIARD).

- *336. **Phoma Herminieræ** Cooke in Grevillea XIII, p. 93. — Peritheciis minutis, dense gregariis, cortice nidulantibus, primo cuticula stellatim rupta tectis, atris; sporulis lanceolatis, binucleatis, hyalinis, 10 \approx 3,5; basidiis simplicibus vel furcatis, elongatis, 40 μ . longis. 4301

Hab. in cortice *Herminieræ elaphroxylonis*, Kew Brit. 4302

- *349. **Phoma Alcearum** Cooke in Grevill. XIII, p. 94. — Caulicola; peritheciis numerosis, dense gregariis in macula lata, punctiformibus, membranaceis, fuscis, senectute atris, depressis, epidermide tectis; sporulis ellipticis, obtusis, enucleatis, hyalinis, 15 \approx 5.

Hab. in caulibus *Altheæ roseæ*, Kew Britanniaë. — Habitu *Ph. nebulosæ* similis.

- * 360. **Phoma Grovei** Berl. et Vogl. *Phoma rubella* Grov. New Not. 4303
Fung. p. 8, n. 50 (non Cooke). — Peritheciis gregariis, olivaceis, tenuibus, $\frac{1}{3}$ - $\frac{1}{4}$ mm. diam., lenticularibus, breve papillatis, sub epidermide, late cruentata, immersis, ostiolo pertuso, vix emergente; sporulis oblongis, utrinque 1-guttatis, $6-7 \approx 2\frac{1}{2}$ -3, rectis, hyalinis.

Hab. in caulibus emortuis *Cardui*, prop. Three Shire Oak, Brit., sociâ *Metasphæriâ rubellâ*, cujus vix dubie spermogonium habenda.

- * 362. **Phoma Solidaginis** Cooke in Grevillea XIII, pag. 95. — Cauli- 4304
cola; peritheciis gregariis, numerosis, primo cuticula tectis dein convexis, atris, nitentibus, poro minuto pertusis; sporulis anguste ellipticis, $9-10 \approx 2$, binucleatis; basidiis brevibus.

Hab. in caulibus *Solidaginis canadensis*, Kew Brit.

- * 373. **Phoma perpusilla** Karst. Symb. ad Myc. fenn. p. 23. — Peri- 4305
theciis superficialibus, hemisphæricis, rotundatis v. oblongatis, astomis, atris, glabris, 0,1 mm. diam.; sporulis elongatis, hyalinis, $6-7 \approx 1,5$.

Hab. in ferulis putrescentibus *Anthrisci* pr. Aboam Fenniaë.

- * 374. **Phoma microspora** Sacc. in Rev. Myc. 1885, p. 158. — Perithe- 4306
ciis seriatim dispositis, laxe gregariis, epidermide velatis, globulosis, atris $\frac{1}{4}$ mm. d.; sporulis ovoideis, perexiguis, $2-3 \approx 1-2$, hyalinis.

Hab. in caule *Athamanthæ siculæ* in Algeria (TRABUT).

- * 375. **Phoma Karstenii** Berl. et Vogl. *Phoma microsperma* Karst. 4307
Symb. Myc. IV, pag. 153. (non Preuss). — Peritheciis gregariis, subcutaneis, demum erumpentibus, subsphæroideis, tandem poro pertusis, atris, circiter 0,2 mm. latis; sporulis elongatis, rectis vel curvulis, hyalinis, $2-4 \approx 0,5$.

Hab. ad caules emortuos *Umbelliferarum* in regione Vasaënsi Fenniaë.

- * 376. **Phoma olivaceo-pallens** Karst. Symb. XV, pag. 153. — Peri- 4308
theciis gregariis, subcutaneis, applanatis, orbicularibus, olivaceo-vel fusco-pallentibus, siccis et adultioribus nigrescentibus, poro sæpe pallescente pertusis, circiter 0,3 mm. latis; sporulis oblongatis, utrinque obtusis, rectis biguttulatis, $4-6 \approx 2$.

Hab. ad caules emortuos *Umbelliferarum* in regione Vasaënsi Fenniaë.

- * 377. **Phoma rubella** Cooke in Grevillea XIV, p. 3. — Peritheciis 4309

collectis in maculis indeterminatis, semiimmersis, depressis, atris, minute papillatis; sporulis anguste ellipticis, enucleatis, continuis, hyalinis, $7 \approx 2$.

Hab. in caulibus emortuis Umbelliferarum, Kew Brit.

- *379. **Phoma Lycopersici** Cooke in Grevill. XIII, p. 94, *Phoma her-* 4310
barum Cooke Fungi Brit. II, 415. — Caulicola; peritheciis punctiformibus, nigris, dense gregariis, primum epidermide tectis, demum plus minusve erumpentibus; sporulis lanceolatis, binucleatis, $12 \approx 4$.

Hab. in caulibus *Lycopersici*, Forden Britannicæ (Vize).

- *380. **Phoma Solani** Cooke et Hark. in Grevillea XIII, p. 16. — Gre- 4311
garia; peritheciis minutis, membranaceis, subglobosis, papillatis tectis; sporulis ellipticis, hyalinis, $6-7 \approx 4$.

Hab. in caulibus *Solani* in California (HARKNESS).

- *387. **Phoma Mercurialis** Brunaud in Rev. Myc. 1886, pag. 140. — 4312
Peritheciis subglobosis, depressis, diu epidermide tectis, demum erumpentibus, brunneo-nigris vel atris, pertusis; sporulis subovoideis, $8 \approx 3$, binucleatis, hyalinis; basidiis nullis vel obsoletis.

Hab. in caulibus emortuis *Mercurialis annuæ*, Saintes Gallicæ.

- *392. **Phoma Leonuri** Let. in Rev. Myc. 1884, pag. 229. — Peri- 4313
theeciis punctiformibus, sæpe sub lente ovoideis, nigris, numerosis, sparsis, primo epidermide tectis, demum, eâ ruptâ, prominulis, poro pertusis; sporulis hyalinis, ovatis, $4-5 \approx 2$.

Hab. in caulibus exsiccatis *Leonuri cardiacæ*, Seine infer. Gallicæ.

- *394. **Phoma Lysimachicæ** Cooke in Grevillea XIII, p. 94. — Cauli- 4314
cola, laxe gregaria, punctiformis; peritheciis atris, leniter cuticulam nigrescentem elevantibus, minutis, subglobosis; sporulis late lanceolatis, binucleatis, $10 \approx 4,5-5$; basidiis brevibus, rectis.

Hab. in caulibus *Lysimachicæ vulgaris*, Kew Britannicæ.

- *395. **Phoma Labiatarum** Cooke in Grevillea XIII, p. 95. — Cauli- 4315
cola; peritheciis sparsis, punctiformibus, minutis, leniter prominentibus, convexis, atris, lucentibus, non papillatis; sporulis ovalibus, hyalinis, $5 \approx 3$; basidiis brevibus.

Hab. in caulibus emortuis *Marrubii*, Kew Britannicæ.

- *406. **Phoma Dipsaci** Cooke in Grevillea XIII, p. 94. — Caulicola; 4316
peritheciis gregariis, sed non stipatis, subglobosis, papillatis, cuticulam demum longitudinaliter perforatam elevantibus; sporulis sublanceolatis, obtusis, binucleatis, $9-10 \approx 3,5$.

Hab. in caulibus *Dipsaci silvestris*, Kew Britanniaë.

- * 411. **Phoma Polemonii** Cooke in *Grevillea* XIII, pag. 94. — Cauli- 4317
cola; peritheciis gregariis, globoso-depressis, atris, lucentibus, acute
distincteque ostiolatis demum cuticula secessa liberis; sporulis an-
guste ellipticis, indistincte nucleatis, $10 \approx 3$.

Hab. in caulibus *Polemonii cœrulei*, Kew Britanniaë.

- * 412. **Phoma Oudemansii** Berl. et Vogl. *Phoma Polemonii* Oudem 4318
Contr. à la Flore myc. de Nowaja Semlja p. 16, t. I, f. 18 (non
Cooke). — Peritheciis phyllogenis, subcarbonaceis, innato-erum-
pentibus, sparsis, minutis; sporulis hyalinis, oblongo-ovalibus, utrin-
que obtusis, $11\frac{2}{3} \approx 4\frac{2}{3}$.

Hab. in *Polemonio pulchello* in Nowaja Semlja.

414. **Phoma herbarum** Sacc. Syll. III, p. 133, v. ***Ph. Tetragonis** Sacc. 703
et Berl. in *Rev. Myc.* 1886. — Peritheciis minutis, sub epidermide
nidulantibus, sparsis, ostiolo minuto, vix protuberante; sporulis
ovoideis, quandoque biguttatis, $5 \approx 2$, hyalinis; basidiis non visis.

Hab. in ramulis putrescentibus *Tetragonis expansæ* in
Algeria.

- * 414. **Phoma Calystegiæ** Cooke in *Grevillea* XIII, pag. 94. — Cau- 4319
licola, gregaria; peritheciis prominentibus, amplis, subglobosis, cu-
ticulam nigrefactam elevantibus, interdum maculis irregularibus, al-
bicantibus insidentibus; sporulis sublanceolatis, utrinque acutis, bi-
nucleatis, hyalinis, $7,5-8 \approx 3,5$.

Hab. in caulibus emortuis *Calystegiæ sepium*, Kew, High-
gate, Dartford Britanniaë.

- * 417. **Phoma sanguinolenta** Grove New Not. Fung. p. 8, n. 49. — 4320
Peritheciis laxe gregariis, atris, opacis, $\frac{1}{3}$ mm. diam., epidermide
libroque solutis inter fibras ligneas, flexuosas, splendide purpureo-
tinctas nidulantibus, demum emersis, globosis compressive, con-
ico-papillatis; hyphis purpureis, parce septatis, 3μ . crass. vestitis;
sporulis oblongis, utrinque 1-guttatis, $6-7 \approx 2\frac{1}{2}-3$, rectis, hyalinis.

Hab. ad basim stipitem *Cardui putrescentium* prope Three
Shire Oak, Brit., sociâ *Leptosphæriâ cruentâ*, cujus haud dubie
spermogonium.

- * 418. **Phoma Polygonorum** Cooke in *Grevill.* XIV, pag. 3. — Laxe 4321
gregaria; peritheciis minutis, punctiformibus, epidermide ostiolo
minuto perforata tectis; sporulis obtuse ellipticis, continuis, hya-
linis, distincte nucleatis, $12 \approx 3$.

Hab. in caulibus *Polygoni cuspidati*, Kew Britanniaë.

- * 419. **Phoma Chamænerionis** Brunaud in *Rev. Myc.* 1886, p. 140. — 4322

Peritheciis globuloso-compressis, sparsis vel subgregariis in series dispositis vel confluentibus, nigris, primum toctis, dein epidermidem ostiolo rumpentibus, macula plus minus nigrescente elongato-lanceolata, subcorticali, nigro-limitata insidentibus; sporulis oblongis, rectis, $8 \approx 2-2,5$, binucleatis, hyalinis; basidiis nullis vel obsoletis.

Hab. in caulibus emortuis *Epilobii angustifolii*, Saintes Galliæ. — A *Ph. Epilobii* sporulis eguttulatis differt.

- * 420. **Phoma Onagracearum** Cooke in Grevillea XIII, p. 95. — Cau- 4323
licola; peritheciis sparsis, cuticola leniter elevata, demum fissa tectis; sporulis ellipticis, binucleatis, $6-8 \approx 3,5-4$; basidiis brevibus.

Hab. in caulibus *Cenotheræ biennis* et *Epilobii angustifolii*, Kew Britanniæ.

- * 425. **Phoma Astragali Alpini** Oudem. Contr. à la Flore myc. de Nowaja 4324
Semlja p. 15, t. I, f. 17. — Peritheciis caulogenis, sparsis, atris, primo absconditis, denique superficialibus, depresso-globosis, ostiolo breve conico, $170-200 \mu$. diam.; sporidiis dilutissime flavescentibus, continuis, $6 \approx 2\frac{1}{3}$, rectis, utrinque obtusatis, vacuolis in exemplis nostris siccatis perraro distinguendis.

Hab. in Astragalo alpino in Nowaja Semlja.

- * 426. **Phoma Astragali** Cooke et Hark. in Grevillea XIII, p. 111. — 4325
Caulicola, tecta; peritheciis depresso, semiimmersis, epidermide velatis; sporulis subfusoides, binucleatis, hyalinis.

Hab. in caulibus *Astragali* in California (HARKNESS).

- * 475. **Phoma Pedicularis** Fuckel in Heuglin Reisen Nordpol. vol. III, 4326
Oud. Contrib. Myc. p. 5. — Peritheciis ab epidermide tectis, depresso-globosis, atris, mediæ magnitudinis, ostiolo brevi, cylindrico erumpente, atro; sporidiis cylindræis, rectis, biguttulatis, $6 \approx 2$ hyalinis.

Hab. in foliis exsiccatis *Pedicularis* cujusdam in insula Nowaja Semlja.

- * 480. **Phoma Caryophylli** Cooke in Grevillea XIII, p. 94. — Peri- 4327
theeciis amplis, convexis, atris, lucentibus, maculis indefinitis, albicantibus insidentibus; sporulis fusiformibus, utrinque subobtusis, vix distincte nucleatis, hyalinis, $9 \approx 3$.

Hab. in calicibus et subinde in pedunculis florum *Dianthi* culti, Shrewbury Brit. (REV. W. LEIGHTON).

- * 482. **Phoma rheina** Thüm. et Boll. Fung. lit. austr. in Soc. Adr. 4328
Sc. Nat. 1885, pag. 12, n. 440. — Peritheciis epiphyllis, minutis, gregariis, in macula subparva, subsinuosa, atris, semiimmersis, glo-

bosulis, ostiolo minimo; sporulis numerosissimis, minutissimis, ovoideis, utrinque rotundatis, simplicibus, enucleatis, achrois, $1,5 \approx 1$.

Hab. in foliis vivis vel languidis Rhei Rhapsontici in Goritia.

- * 487. **Phoma Lupini** Ell. et Ev. in Bull. Wash. Lab. Nat. Hist. 1884, 4320
p. 6. — Peritheciis minutis, subsuperficialibus, atris, dense gregariis, in maculis 2-3 mm. diam. confluentibus, magnam partem paginæ inferioris foliorum occupantibus superioremque pallide brunneo colorantibus; sporulis oblongo-hyalinis, $2,5 \approx 1$.

Hab. in foliis vivis Lupini? Falcon Valley Amer. bor.

- * 491. **Phoma Julibrissin** Pass. et Roum. in Rev. Myc. 1885, p. 172. — 4330
Peritheciis laxè gregariis vel sparsis, subglobosis, atris; sporulis cylindricis, numerosissimis, minutis, hyalinis, utrinque nucleatis, $4-5 \approx 2,5$; basidiis nullis vel obsoletis.

Hab. ad legumina fracidà Mimosæ Julibrissin cultæ in Horto Mimatensi Galliæ (Reliquiæ PROSTR).

- * 511. **Phoma conigena** Karst. in Rev. Myc. 1885, p. 106. — Peritheciis sparsis vel subgregariis, erumpentibus, mox superficialibus, 4331
difformibus, ut plurimum rotundatis, demum ore rimoso dehiscentibus, atris, $0,2-0,3$ mm. latis; sporulis oblongatis, fusoides, eguttulatis, hyalinis, $6-9 \mu$. longis.

Hab. in squamis conorum emortuorum Pini silvestris ad Mustiala Fenniæ. — Ab affinibus *Phoma Pini*, *Ph. Pittospori* et *Ph. pithya*, peritheciis mox superficialibus statim dignoscenda.

- * 515. **Phoma sapinea** Pass. in herb. Roum. in Rev. Myc. 1886, p. 91. 4332
— Peritheciis gregariis, epidermide velatis, subglobosis vel oblongis, fuscis; sporulis oblongis, utrinque rotundatis, enucleatis, hyalinis, $5 \approx 2,5$; basidiis nullis vel obsoletis.

Hab. in squamis exsiccatis conorum Abietis excelsæ, Parma Ital. bor. (PASSERINI).

- * 553. **Phoma Chamæropis** Cooke in Grevillea XIII, pag. 95. — Peritheciis erumpentibus, gregariis, subglobosis, atris, opacis, magnitudine irregularibus, perforatis; sporulis ellipticis, obtusis, enucleatis, hyalinis, $4-5 \approx 2$. 4333

Hab. in petiolis Chamæropis aliarumque palmarum, Kew Britannicæ. — A *Ph. cocoïna* non dissimilis, sed sporulis duplo minoribus.

- * 554. **Phoma Cycadis** Sacc. et Berl. in Rev. Myc. 1886. — Peritheciis sparsis, primum tectis dein ostiolo protuberante nitidis, conoideis vel conoideo-applanatis, $150-200 \mu$. diam.; sporulis elli- 4334

psoides, minutis, $6 \approx 2$, hyalinis, basidiis longiusculis, cylindraceutis, simplicibus, $18-20 \approx 2$, suffultis.

Hab. in pedunculo emortuo *Cycadis revolutæ* Algeriæ. — Cum *Chætophoma Cycadis*, cui magnitudine sporularum nec non matrice affinis, comparanda nec quidem.

- * 556. **Phoma Magnusii** Sacc. Bomm. et Rouss. in Bull. Soc. R. Bot. 4335
Belg. 1886, p. 177. — Peritheciis numerosis, sparsis, lenticularibus, epidermide tectis, ostiolo papilliformi, erumpente donatis; sporulis numerosis, hyalinis, ellipsoideis, biguttulatis, $6-7 \approx 2,5$.

Hab. in pag. inf. et sup. foliorum *Phœnicis dactyliferæ*, Gand Belgii.

- * 587. **Phoma Acori** Cooke in Grevillea XIII, p. 95. — Foliicola; peritheciis gregariis, punctiformibus, minutis, numerosis, cuticula tectis, siccis minutissimis, membranaceis, brunneis, sporulis ovoideis vel ellipticis, obtusis, $6-8 \approx 3$.

Hab. in foliis emortuis *Acori calami*, sociâ *Leptosphæriâ acorellâ*, Totteridge, Kew Britannia.

- * 589. **Phoma tamicola** Cooke in Grevillea XIII, p. 95. — Caulicola; peritheciis gregariis, subglobosis, mox depressis, cuticula nigrescente, ostiolo minuto demum perforata tectis; sporulis obtuse fusiformibus, binucleatis, $9-10 \approx 3$.

Hab. in caulibus *Tami communis*, Neatishead, Norfolk Britannia.

- * 613. **Phoma Iridum** Sacc. in Mich. II, p. 126. — Peritheciis gregariis, subcutaneis, vix erumpentibus, globoso-lenticularibus, $\frac{1}{8}$ mm. diam., ostiolo obtuso, sporulis, oblongis, $10 \approx 2\frac{1}{2}$ suffultis.

Hab. in foliis *Pseudacori*, Toulouse Gallia (ROUMEGUÉRE).

616. **Phoma Ammophilæ** Dur. et Mont. — Sacc. Syll. III, p. 166 (Verisimiliter). — Sporulæ ellipsoideo-oblongæ, $4-5 \approx 1,5-2$, hyalinae.

625. **Phoma Equiseti** Desm. Sacc. Syll. III, p. 168. — Sporulæ $7,2 \approx 3$ (ANG. ROUMEGUÉRE).

- * 626. **Phoma sphærosperma** Karst. in Hedw. 1885, p. 74. — Peritheciis sparsis, epidermide tectis, sphæroideo-applanatis, atrofuscis, basi fusca, ostiolo rudi, epidermidem perforante, glabris, $0,2$ mm. latis; sporulis sphæroideis, hyalinis vel dilutissime flavido-hyalinis, eguttulatis, levibus, $10-15 \mu$. diam.

Hab. in caulibus putrescentibus *Equiseti fluvialis* ad Mustiala Fennia.

633. **Phoma Andrachnes** Lév. Voy. p. 110, t. VI, 3, Sacc. Syll. III, p. 169. — Epi-et hypophylla, unilocularis; peritheciis globosis, ad-

natis, ostioliis prominulis, pertusis, intus nigris; sporis minimis, simplicibus, oblongo linearibus.

Hab in foliis emortuis *Arbuti Andrachnes*, Orianda-Impériale *Kossiae*. — Var. **orbicularis**: peritheciis in anulum dispositis.

637. **Phoma Laricis** Lév. Voy. pag. 111, t. IV, f. 5, Sacc. Syll. III, 1016 p. 169. — Erumpens, unilocularis; receptaculis sparsis vel subseriatis globosis, nigris, ostioliis papillatis; sporis oblongo-linearibus, simplicibus pellucidis.

Hab. in conis *Laricis* in Tauria.

MACROPHOMA (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 172, Sacc. Syll. III, p. 90 ut subg. (Etym. *macro* longus magnus et *phoma*). *Phoma*, *Sphæropsis*, *Sphæronema* auctorum pro parte. — Perithecia subcutanea dein erumpentia, membranacea, subcoriacea et subcarbonacea, globosa, glabra, erostrata, ostiolo minuto, subinde obsoleto. Sporulæ ovoideæ, fusoideæ vel cylindraceæ, majusculæ vel magnæ, 15 amplius μ . longæ, sæpe granulose, continuæ, hyalinæ, rarissime biguttatæ. Basidia filiformia, subinde brevissima vel obsoleta constanter simplicia.

A. *Eumacrophoma* sporulis ovoideis.

a) In **Dicotyledoneis parasiticæ**.

α . Ramicolæ.

* 1. **Macrophoma macrosperma** (Karst.) Berl. et Vogl. in Atti Soc. 420 Veneto-Trentina 1886, pag. 173. — *Phoma macrosperma* Sacc. Syll. III, pag. 73.

2. **Macrophoma excelsa** (Karst.) Berl. et Vogl. in Atti Soc. Veneto- 430 Trentina 1886, p. 173. — *Phoma excelsa* Sacc. Syll. III, p. 74.

3. **Macrophoma Cupressi** (Cooke et Harkness) Berl. et Vogl. in Atti 4341 Soc. Veneto-Trentina 1886, p. 173. — *Sphæropsis Cupressi* Cooke et Hark. in Grevillea XIII, p. 17. — Erumpens; peritheciis atris, obtusis, primum tectis, demum erumpentibus, epidermide circumambiente arcte adhærentibus; sporulis ellipticis, continuis, hyalinis, protoplasmate granuloso fartis, 30 \approx 10.

Hab. in cortice *Cupressi macrocarpi* in California (HARKNESS).

5. **Macrophoma Peckiana** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto- 471 Trentina 1886, p. 174. — *Phoma Peckiana* Sacc. Syll. III, p. 80.

6. **Macrophoma Ampelopsidis** (C. et E.) Berl. et Vogl. in Atti Soc. 466

- Veneto-Trentina 1886, p. 174. — *Phoma Ampelopsidis* Sacc. Syll. III, pag. 79.
7. **Macrophoma dryina** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 174. — *Phoma dryina* Sacc. Syll. III, p. 96.
8. **Macrophoma Scheidweileri** (West.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 174. — *Phoma Scheidw.* Sacc. Syll. III, p. 92.
9. **Macrophoma salicaria** (Sacc.) Berl. et Vogl., in Atti Soc. Veneto-Trentina 1886, p. 175. *Phoma salicaria* Sacc. in Mori Enum. dei Funghi di Modena (Giorn. Bot. Ital. 1886, n. 1, p. 22). — Peritheciis laxe gregariis, subcutaneo-erumpentibus, globoso-depressis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., obtuse papillatis vel subinde fere umbilicatis, nigris; sporulis ellipsoideis, utrinque obtuse rotundatis, 28-30 \approx 12-14, hyalinis, nubiosis vel guttulis.
- Hab.* in ramis emortuis Salicis in Horto Botanico Mutinensi Ital. bor.
10. **Macrophoma corticicola** (Preuss) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 175. — *Phoma corticicola* Sacc. Syll. III, p. 110.
11. **Macrophoma corylina** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 175. — *Phoma corylina* Sacc. Syll. III, p. 99.
12. **Macrophoma tertia** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 175. — *Phoma tertia* Sacc. Syll. III, p. 95.
13. **Macrophoma Laburni** (West.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 175, tab. II, fig. I. — *Phoma Laburni* Sacc. Syll. III, pag. 68.
14. **Macrophoma persicina** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 176. — *Phoma persicina* Sacc. Syll. III, p. 74.

β . Caulicolæ.

15. **Macrophoma xanthina** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 176. — *Phoma xanthina* Sacc. Syll. III, p. 118.
16. **Macrophoma Heuffelii** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 176. — *Phoma Heuffelii* Sacc. Syll. III, p. 132.
17. **Macrophoma Janiphæ** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 176. — *Phoma Janiphæ* Sacc. Syll. III, p. 141.

18. **Macrophoma Ricini** (Cooke) Berl. et Vogl. in Atti Soc. Veneto- 834
Trentina 1886, p. 176, tab. III, fig. XV. — *Phoma Ricini* Sacc.
Syll. III, p. 141.
19. **Macrophoma acanthina** (Sacc. et Roum.) Berl. et Vogl. in Atti 704
Soc. Veneto-Trentina 1886, p. 177. — *Phoma acanthina* Sacc.
Syll. III, pag. 128.
20. **Macrophoma Lupini** (Cooke et Hark.) Berl. et Vogl. in Atti Soc. 4343
Veneto-Trentina 1886, pag. 177. *Phoma Lupini* Cooke et Hark.
in Grevillea XIII, pag. 111. — Caulicola; peritheciis gregariis,
subcutaneis, subglobosis, atris, epidermide nitida tectis; sporulis
elongato-ellipticis, binucleatis, hyalinis, 20.
Hab. in caule *Lupini* in California (HRKNESS)..
21. **Macrophoma Malcomiæ** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto- 4344
Trentina 1886, p. 177. *Phoma Malcomiæ* Sacc. in Rev. Myc. 1886.
— Peritheciis gregariis, subcutaneo-erumpentibus, atris globoso-
papillatis; sporulis ellipsoideis v. ovoideis, 14-18 \approx 7-8, utrinque
obtusis, granulosis, hyalinis.
Hab. in caule *Malcomiæ ægyptiacæ* in Algeria.
22. **Macrophoma Keckii** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto- 535
Trentina 1886. — *Phoma Keckii* Sacc. Syll. III, p. 90.

γ . Foliicolæ.

23. **Macrophoma Taxi** (Berk.) Berl. et Vogl. in Atti Soc. Veneto- 606
Trentina 1886, p. 178. — *Phoma Taxi* Sacc. Syll. III, p. 102.
24. **Macrophoma Candollei** (Berk. et Br.) Berl. et Vogl. in Atti Soc. 624
Veneto-Trentina 1886 p. 178. — *Phoma Candollei* Sacc. Syll. III,
p. 105.
25. **Macrophoma Mirbelii** (Fr.) Berl. et Vogl. in Atti Soc. Veneto- 625
Trentina 1886, p. 179, tab. II, fig. V. — *Phoma Mirbelii* Sacc.
Syll. III, pag. 105.
26. **Macrophoma ilicella** (Sacc. et Penz.) Berl. et Vogl. in Atti Soc. 628
Veneto-Trentina 1886, p. 179, tab. II, fig. VIII. — *Phoma ilicel-
la* Sacc. Syll. III, pag. 106.
27. **Macrophoma australis** (Cooke) Berl. et Vogl. *Phoma australis* 4345
Cooke in Grevillea XV, p. 17. — Epiphylla; maculis fuscis, el-
lipticis, brunneo-cinctis, demum confluentibus; peritheciis atris, pun-
ctiformibus, semiimmersis; sporulis elongato-ellipticis, hyalinis,
granulosis, 26-30 \approx 6; basidiis brevibus.
Hab. in foliis *Eucalypti*, Melbourne Australiae (II. WATTS).
28. **Macrophoma leucostigma** (D. C.) Berl. et Vogl. in Atti Soc. Ve- 623

- neto-Trentina 1886, p. 179. — *Phoma leucostigma* Sacc. Syll. III, p. 105.
29. **Macrophoma petiolata** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 179. — *Phoma petiolata* Sacc. Syll. III, p. 114. 675
30. **Macrophoma nobilis** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 180. — *Phoma nobilis* Sacc. Syll. III, p. 112. 663
31. **Macrophoma Araliæ** Sacc. et Berl. in Rev. Myc. 1886. Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 180, tab. V, fig. II. — Phyllogena; peritheciis maculis ochraceo-fuscis insidentibus, atris, conoideis, utramque paginam foliorum occupantibus; sporulis ovoideis vel subcylindraceis, utrinque rotundatis, guttuligeris vel protoplasmate granuloso faretis, 18-20 \times 6-8, basidiis simplicibus, continuis suffultis. 4346
- Hab.* in utraque pagina foliorum viventium? Araliæ, Algeria.
32. **Macrophoma millepunctata** (Penz.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 180, tab. II, fig. X. — *Phoma millepunctata* Sacc. Syll. III, pag. 105 (non Lév.). 622
33. **Macrophoma glæosporioides** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 180, tab. III, fig. XIII. — *Phoma glæosporioides* Sacc. Syll. III, p. 116. 693
34. **Macrophoma collabens** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 181. *Phoma collabens* Cooke in Grevillea 1885, p. 94. — Epiphylla; peritheciis sparsis, maculas orbiculares, atras, in foliis et ramulis efformantibus, rugosis, depressis sub-superficialibus $\frac{1}{4}$ mm. diam.; sporulis ellipticis, continuis hyalinis enucleatis, 15-18 \times 5; basidiis indistinctis. 4347
- Hab.* in foliis vivis Pruni lusitanicæ, Kew Britannicæ.
35. **Macrophoma fragilis** (Mont.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 181. — *Phoma fragilis* Sacc. Syll. III, p. 146. 869
36. **Macrophoma Surinamensis** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 181. — *Phoma Surinamensis* Sacc. Syll. III, pag. 163. 976
37. **Macrophoma Raui** (Peck.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 181. — *Phoma Raui* Sacc. Syll. III, p. 143. 845
38. **Macrophoma Cordylines** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 182. — *Phoma Cordylines* Sacc. Syll. III, p. 162. 965
39. **Macrophoma Vincæ** (Curr.). Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 182. — *Phoma Vincæ* Sacc. Syll. III, p. 145. 862

40. **Macrophoma megasperma** (Speg.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 182. — *Phoma megasperma* Sacc. Syll. III, p. 86. 509
41. **Macrophoma Malpighiæ** (Mont.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 182. — *Phoma Malpighiæ* Sacc. Syll. III, p. 116. 688
42. **Macrophoma? phyllogenata** (Link.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 183. — *Phoma? phyllogenata* Sacc. Syll. III, pag. 117. 699
43. **Macrophoma erumpens** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 183. — *Phoma erumpens* Sacc. Syll. III, p. 118. 701

δ. In fructibus samaris, fimo, leguminibus, seminibus etc.

44. **Macrophoma samaricola** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 183. — *Phoma samaricola* Sacc. Syll. III, p. 153. 910
45. **Macrophoma Triacanthi** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 184. — *Phoma Triacanthi* Sacc. Syll. III, p. 147. 875
46. **Macrophoma clitoricarpa** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 183. — *Phoma clitoricarpa* Sacc. Syll. III, p. 147. 872
47. **Macrophoma malorum** (Berk.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 184. — *Phoma malorum* Sacc. Syll. III, p. 152. 908
48. **Macrophoma seminalis** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 184. — *Phoma seminalis* Sacc. Syll. III, p. 149. 886
49. **Macrophoma Pandani** (Lév.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 184. — *Phoma Pandani* Sacc. Syll. III, p. 157. 939
50. **Macrophoma micromegala** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 185. — *Phoma micromegala* Sacc. Syll. III, pag. 73. 428
51. **Macrophoma fimicola** (West.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 185. — *Phoma fimicola* Sacc. Syll. III, p. 169. 1010

δ) In Monocotyledoneis parasiticæ.

ε. Culmi-folii- vel cladodiicolæ.

52. **Macrophoma caricina** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 185. — *Phoma caricina* Sacc. Syll. III, p. 169. 980

- to-Trentina 1886 pag. 185. — *Phoma caricina* Sacc. Syll. III, p. 164.
53. **Macrophoma crustosa** Sacc. et Berl. in Misc. Myc. II, p. 30 et 4348
Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 185, tab. III, fig. XX. — Peritheciis ad nodos culmorum dense crustaceo-aggregatis, nigris, globulosis, vix papillatis, $\frac{1}{5}$ mm. diam.; sporulis oblongo-ellipsoideis, 28-32 \times 10-12, granulosis, hyalinis, basidiis filiformibus, paullo brevioribus suffultis.
- Hab.* in culmis Tritici sativi ad nodos, Fiumicello Ital. bor. — *Macrophomæ Sacchari* affinis.
54. **Macrophoma Sacchari** (Cooke) Berl. et Vogl. in Atti Soc. Ve- 994
neto-Trentina 1886, p. 186. — *Phoma Sacchari* Sacc. Syll. III, p. 166.
55. **Macrophoma Palmarum** (Cooke) Berl. et Vogl. in Atti Soc. Ve- 947
neto-Trentina 1886, p. 186. — *Phoma Palmarum* Sacc. Syll. III, p. 157.
56. **Macrophoma Gladioli** (Cooke) Berl. et Vogl. in Atti Soc. Veneto- 933
Trentina 1886, p. 186. — *Phoma Gladioli* Sacc. Syll. III, p. 159.
57. **Macrophoma brevipes** (Penz. et Sacc.) Berl. et Vogl. in Atti 957
Soc. Veneto-Trentina 1886, p. 186, tab. III, fig. XVI. — *Phoma brevipes* Sacc. Syll. III, p. 160.
58. **Macrophoma Hippoglossi** (Mont.) Berl. et Vogl. in Atti Soc. Ve- 972
neto-Trentina 1886, p. 187. — *Phoma Hippoglossi* Sacc. Syll. III, p. 162.
59. **Macrophoma Musæ** (Cooke) Berl. et Vogl. in Atti Soc. Veneto- 969
Trentina 1886, p. 187. — *Phoma Musæ* Sacc. Syll. III, p. 163.

c) In Acotyledoneis parasiticæ.

η. Caulicolæ.

60. **Macrophoma? sphærosperma** (Karsten) Berl. et Vogl. in Atti Soc. 4349
Veneto-Trentina 1886, p. 187. — *Phoma sphærosperma* Karsten in Hedw. 1885, pag. 74. — Peritheciis sparsis, epidermide tectis, sphæroideo-applanatis, atro-fuscis, basi fuscis, ostiolo rudi, epidermidem perforante, glabris, latit. vix 2 mm.; sporulis sphæroideis, hyalinis vel dilutissime flavido-hyalinis, eguttulatis, levibus, 10-15 μ . diam.
- Hab.* in caulibus putrescentibus Equiseti fluviatilis ad Mustiala Fenniæ.

B. *Cylindrophoma* sporulis cylindræis vel fusoideis.a) in **Dicotyledoneis parasiticæ.** α . Ramicolæ.

61. **Macrophoma rimiseda** (Sacc.) Berl. et Vogl. in Atti Soc. Vene- 402
to-Trentina 1886, p. 188, tab. III, fig. XXI. — *Phoma rimiseda*
Sacc. Syll. III, pag. 78.
62. **Macrophoma longispora** (Thüm.) Berl. et Vogl. in Atti Soc. Ve- 475
neto-Trentina 1886 p. 188. — *Phoma longispora* Sacc. Syll. III,
p. 79.
63. **Macrophoma albifrutua** (Peck.) Berl. et Vogl. in Atti Soc. Ve- 4350
neto-Trentina 1886, p. 188. — *Phoma Albifrutua* Peck. in 38
Rep. St. Mus. p. 9. — Peritheciis numerosis, 500-800 μ . latis, co-
noideis vel subhemisphæricis, sæpe irregularibus, 2-3 confluentibus,
erumpentibus, atris; sporulis oblongo-fusififormibus, utrinque acutis,
2-4-nucleatis, 16-20 \approx 5-6, hyalinis, in globulum album expulsis.
Hab. in cortice emortuo *Aceris rubri*, Karner Amer. bor.
64. **Macrophoma endophlæa** (Sacc.) Berl. et Vogl. in Atti Soc. Vene- 571
to-Trentina 1886, p. 189, tab. II, fig. III. — *Phoma endophlæa*
Sacc. Syll. III, p. 96.
65. **Macrophoma Corticis** (Fuck.) Berl. et Vogl. in Atti Soc. Veneto- 446
Trentina 1886, p. 189. — *Phoma Corticis* Sacc. Syll. III, p. 76.
66. **Macrophoma fusigera** (B. et C.) Berl. et Vogl. in Atti Soc. Ve- 455
neto-Trentina 1886, pag. 189. — *Phoma fusigera* Sacc. Syll. III,
p. 77.
67. **Macrophoma Mantegazziana** (Penz.) Berl. et Vogl. in Atti Soc. 618
Veneto-Trentina 1886 pag. 193. — *Phoma Mantegazziana* Sacc.
Syll. III, p. 104. **M. Ægles* Sacc. et Berl. in Rev. Myc. 1886 et
in Atti Soc. Veneto-Trentina 1886, p. 193, tab. II, fig. II. — Pe-
ritheciis sparsis, majusculis, epidermide velatis; sporulis elongatis,
19-22 \approx 4-5, hyalinis; basidiis sporulâ duplo minoribus, hyalinis,
simplicibus.
Hab. in spinis ramorum *Ægles*, Algeria. — Affinis *Phomæ*
Mantegazzianæ Penz., a qua basidiis brevioribus recedit. Areolas
deabatas, ochraceo-cinctas sæpe incolit.
68. **Macrophoma Baculum** (Ger.) Berl. et Vogl. in Atti Soc. Veneto- 537
Trentina 1886, p. 189. — *Phoma Baculum* Sacc. Syll. III, p. 91.

 β . Caulicolæ.

69. **Macrophoma bacillaris** (Sacc.) Berl. et Vogl. in Atti Soc. Vene- 795

- to-Trentina 1886, pag. 190. — *Phoma bacillaris* Sacc. Syll. III, p. 134.
70. **Macrophoma Solierii** (Mont.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 190, tab. III, fig. XIX. — *Phoma Solierii* Sacc. Syll. III, pag. 161. 962
71. **Macrophoma clavuligera** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 190. — *Phoma clavuligera* Sacc. Syll. III, p. 69. 397
72. **Macrophoma Artemisiæ** (Kalch. et Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 190. — *Phoma Artemisiæ* Sacc. Syll. III, pag. 123. 735
73. **Macrophoma filamentosa** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 191. — *Phoma filamentosa* Sacc. Syll. III, p. 159. 949

γ. Foliicolæ.

74. **Macrophoma parca** (B. et Br.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 191. — *Phoma parca* Sacc. Syll. III, p. 100. 592
75. **Macrophoma Strobi** (Berk. et Br.) Berl. et Vogl. in Soc. Veneto-Trentina 1886, p. 171. — *Phoma Strobi* Sacc. Syll. III, p. 101. 603
76. **Macrophoma acuaria** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 191. — *Phoma acuaria* Sacc. Syll. III, p. 100. 595
77. **Macrophoma phacidiella** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 191, tab. II, fig. VII. — *Phoma phacidiella* Sacc. Syll. III, p. 106. 631
78. **Macrophoma cylindrospora** (Desm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 192, tab. II, fig. XII. — *Phoma cylindrospora* Sacc. Syll. III, p. 113. 671
79. **Macrophoma viticola** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 192. — *Phoma viticola* Sacc. Syll. III, p. 110. 653
80. **Macrophoma cerasina** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 193. — *Phoma cerasina* Cooke in Grevillea 1886, p. 90. — Epiphylla; peritheciis punctiformibus, densissime gregaris, semiimmersis, atris, nitidis, poro pertusis; sporulis subcylindricis, utrinque rotundatis, rectis, enucleatis, hyalinis, 15-16 \approx 3,5. 4351
Hab. in foliis emortuis Pruni Lauro-cerasi, Aiken S. Carol.
81. **Macrophoma mucipara** (Penz. et Sacc.) Berl. et Vogl. in Atti 648

Soc. Veneto-Trentina 1886, pag. 192, tab. II, fig. XI. — *Phoma mucipara* Sacc. Syll. III, p. 109.

82. **Macrophoma Molleriana** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 193. — *Phoma Molleriana* Sacc. Syll. III, p. 110. 650
83. **Macrophoma æquivoca** (Ces.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 194. — *Phoma æquivoca* Sacc. Syll. III, p. 159. 953
84. **Macrophoma crateriformis** (Dur. et Mont.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 194. — *Phoma crateriformis* Sacc. Syll. III, pag. 112. 666

b) In **Monocotyledoneis parasiticæ.**

δ. Culmicolæ.

85. **Macrophoma elongata** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 194. — *Phoma elongata* Sacc. Syll. III, p. 158. 946
86. **Macrophoma lanceolata** (C. et Ell.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 194, tab. III, fig. XVIII. — *Phoma lanceolata* Sacc. Syll. III, p. 162. 967

ε. Folicolæ.

87. **Macrophoma smilacina** (Peck.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 195. — *Phoma smilacina* Sacc. Syll. III, p. 160. 955
88. **Macrophoma Caricis** (Fr.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 195. — *Phoma Caricis* Sacc. Syll. III, p. 164. 979
89. **Macrophoma graminella** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 195, tab. III, fig. XVII. — *Phoma graminella* Sacc. Syll. III, p. 166. 996

η. In fructibus, leguminibus, floribus etc.

90. **Macrophoma cassiocarpa** (Cooke) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 195. — *Phoma cassiocarpa* Sacc. Syll. III, pag. 147. 876
91. **Macrophoma dalmatica** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 196. — *Phoma dalmatica* Sacc. Syll. III, p. 156. 928
92. **Macrophoma nitens** (Sacc. Roum. et Bomm.) Berl. et Vogl. in 899

- Atti Soc. Veneto-Trentina 1886, p. 196. — *Phoma nitens* Sacc. Syll. III, pag. 151.
93. **Macrophoma Citrulli** (B. et C.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 196. — *Phoma Citrulli* Sacc. Syll. III, p. 149. 885
94. **Macrophoma Lagenariæ** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 196. — *Phoma Lagenariæ* Sacc. Syll. III, p. 148. 882
95. **Macrophoma Granati** (Sacc.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 197. — *Phoma Granati* Sacc. Syll. III, p. 78. 459
96. **Macrophoma fallax** (Berk.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 197. — *Phoma fallax* Sacc. Syll. III, p. 156. 951
97. **Macrophoma Hennebergii** (Kühn.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, p. 197. — *Phoma Hennebergii* Sacc. Syll. III, p. 167. 999
98. **Macrophoma Oleæ** (D. C.) Berl. et Vogl. in Soc. Veneto-Trentina 1886, pag. 197, tab. II, fig. IX. — *Phoma Oleæ* Sacc. Syll. III, pag. 112. 667
99. **Macrophoma Calotropidis** (Thüm.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 198. — *Phoma Calotropidis* Sacc. Syll. III, p. 114. 676
100. **Macrophoma hyalina** (B. et B.) Berl. et Vogl. in Atti Soc. Veneto-Trentina 1886, pag. 198. — *Phoma hyalina* Sacc. Syll. III, pag. 88. 516

AOSPHÆRIA Berk. — Sacc. Syll. III, p. 169.

- *13. **Aposphæria rugulosa** Sacc. Fung. ven. V, p. 179. — Peritheciis gregariis, majusculis, globosis, ruguloso-tuberculatis, atris, ostiolo minutissimo, papillato, demum perforato; sporulis minutissimis, ellipsoideis, $2 \approx 1,5$, subhyalinis. 4352
- Hab.* in ligno putri Carpini Betuli, Vittorio Ital. bor. — Status ascophorus *Ohleria rugulosa*.
- *25. **Aposphæria subcorticalis** Karst. in Hedw. 1885, p. 74. — Peritheciis latere interiori corticis insidentibus, subgregariis vel sparsis, cupulato-collapsis, atris, glabris, subastomis, superficialibus, 0,2-03 mm. diam.; sporulis oblongatis, eguttulatis, rectis, hyalinis, $4 \approx 1-2$. 4353
- Hab.* ad ramos emortuos Sambuci, Aboæ Fennicæ.
- *30. **Aposphæria elevata** (Peck.) Berl. et Vogl. *Phoma elevatum* Peck. in 38 Rep. St. Mus. p. 95. — Peritheciis numerosis, minu- 4354

tis, rotundis, ovalibus vel hysteriiformibus, matrice immersis sed pustulus elevatas vel rimas occupantibus, nigris; sporulis ovatis vel subellipticis, $8 \approx 4$, hyalinis.

Hab. in ligno decorticato arborum in montibus Adirondack Amer. bor.

- *32. **Aposphæria nitidiuscula** Karst. in Hedwigia 1884, pag. 6. — 4355
Peritheciis sphæroideis, concavis vel cupulato-collapsis, subsuperficialibus, astomis, atris, nitidis, exiguis; sporulis elongatis, rectis, hyalinis, $3-4 \approx 0,5$.

Hab. in ramulis siccis Aceris platanoidis in parœcia Nepes Fenniæ.

SPHÆRONEMA Fr. — Sacc. Syll. III, pag. 185.

- *25. **Sphæronema levirostre** (Karst.) Berl. et Vogl. *Rhynchophoma levirostris* Karsten Symb. pag. 154. — Peritheciis superficialibus, sparsis vel gregariis, sphæroideis, vel subovoideo-sphæroideis, fragilibus, rugulosis, atris, opacis, rostro cylindraceo-flexuoso, levi perithecio duplo vel quadruplo longiore, circit. 0,4 mm. diam.; sporulis ellipsoideis vel oblongatis, rectis vel leniter curvulis, simplicibus, $4-6 \approx 2$.

Hab. supra lignum vetustum Populi tremulæ in regione Mustialensi Fenniæ.

CHÆTOPHOMA Cooke — Sacc. Syll. III, p. 199.

- *5. **Chætophoma eutricha** Sacc. et Berl. Misc. Myc. II, p. 8. — Mycelio epiphylo, maculas nigras, epiphyllas, sæpe confluentes, senio sæpe pulveraceo-secedentes formante; hyphis mycelicis effusis, filiformibus, ramoso-anastomoticis, subseptatis, ubique nodulos hemisphæricos, unilaterales gerentibus, fuliginis; peritheciis punctiformibus, subastomis, nigris, hyphis cinctis; sporulis oblongo-altautoideis, curvulis, $4 \approx 1,5$, hyalinis.

Hab. in foliis languidis Castanospermi australis, Logan Australiæ. — Habitus *Meliolæ*, cujus spermogonium verisimiliter sistit.

- *6. **Chætophoma maculans** Winter in Journ. of Myc. 1885, p. 123. 4358
— Peritheciis minutis, globosis, poro pertusis, fuscis, membranaceis, 70 μ . diam., in macula rotundata vel subirregulari, magna (usque 25 mm. lata), fusca, demum fusco-atra, margine indeterminato, pallidiorè cincta, interdum autem a linea atra limitata, amphigenis, superficialibus, mycelio repente, ramoso, septato, fu-

sco, subdenso insidentibus; sporulis numerosissimis et minutissimis, ellipticis, hyalinis, unicellularibus, vix 2 μ . longis.

Hab. ad folia viva languidave Silphii terebinthacei, Missouri Amer. bor.

- * 15. **Chætophoma filamentifera** (Karst.) Berl. et Vogl. *Phoma filamentifera* Karst. Symb. XV, pag. 153. — Peritheciis laxe gregariis, innatis, oblongatis vel ellipsoideis, raro rotundatis, hyphis repentibus, ramosis, septatis, fusciscentibus, longis obsessis, contextu distincte laxiusculo, celluloso, fuligineo, ostiolo obtusiusculo, brevi, perforante, circiter 0,2 mm. lat.; sporulis oblongis, rectis, eguttulatis, chlorino-hyalinis, 8-9 \approx 3-3,5.

Hab. in foliis exsiccatis Graminum ad Mustiala Fenniae.

PYRENOCHÆTA De Not. — Sacc. Syll. III, pag. 219.

- * 13. **Pyrenochæta** (Pyrenochætella) **complanata** Karst. in Hedw. 1885, pag. 74. — Peritheciis gregariis, raro sparsis, superficialibus, liberis, complanatis, orbicularibus, subastomis, pallescentibus, intus albidis, membranaceis, tenuissimis, contextu arcte minuteque celluloso, undique pilis fascis, decumbentibus, repentibus, æqualibus, vix articulatis, unicoloribus, usque ad 425 μ . longis et 3-5 μ . cr. densissime vestitis, 0,1 mm., vel paullo ultra latis; sporulis fusoido-elongatis vel cylindraceis, rectis vel leniter curvulis, simplicibus, hyalinis, 4-6 \approx 0,5-1; basidiis filiformibus, ramosis, 30-45 \approx 2-3.

Hab. in caulibus aridis Umbelliferarum majorum prope Mustiala Fenniae — *Pyrenochætella* Karst. l. c. subg. vel gen. nov. Perithecia superficialia, membranacea, tenuissima, pallescencia, subastoma, setis longis undique dense vestita. Sporulæ elongatæ vel cylindraceæ, simplices, hyalinæ. Basidia ramosa.

VERMICULARIA Har. — Sacc. Syll. III, pag. 221.

- * 10. **Vermicularia Syringæ** Oud. Aanw. IX-X, p. 32. — Peritheciis membranaceis, immersis, fusciscentibus, vertice setis 5-7, angulatum flexuosis, articulatis, sursum conidia 2-3-septata, ovalia vel oblonga, dilutius colorata sustentibus præditis; sporulis hyalinis, minutissimis, ellipsoideis, continuis.

Hab. in capsulis effætis Syringæ vulgaris, Putten Hollandiæ.

- * 13. **Vermicularia Libertiana** Roum. in Rev. Myc. 1886, p. 91. — Peritheciis minutis, globulosis, atris, erumpentibus, leniter depres-

sis, vix $\frac{1}{6}$ mm. diam., pilis rigidis brunneis, apice pallidioribus, 40-45 \approx 2-3, irregulariter septatis; sporulis curvatis, fusiformibus, hyalinis, 8-10 \approx 3.

Hab. in caulibus delapsis Pini, Malmedy Galliæ.

- *15. **Vermicularia Ophiopogonis** Pat. in Rev. Myc. 1886, pag. 83. — 4363
Peritheciis primo epidermide tectis dein liberis, atris, rotundis v. parum elongatis, setis nigris, continuis præditis; sporulis fusiformibus, rectis vel parum curvatis, hyalinis, uniseptatis, 24-27 μ . longis.

Hab. in foliis Ophiopogonis gracilis, Thibet Orient. Asiæ.

- *48. **Vermicularia Tofieldiæ** Pat. in Rev. Myc. 1886, p. 83. — Pe- 4364
ritheciis minutis, sparsis, superficialibus, pilis filiformibus, nigris, circiter peritheci duplo longioribus; sporulis 21 μ . longis, hyalinis, curvis, continuis.

Hab. in foliis exsiccatis Tofieldiæ, Thibet orient. Asiæ (AB. DAVID).

- *64. **Vermicularia straminis** Cooke et Hark. in Grevillea XIII, p. 112. 4365
— Peritheciis subgregariis, globoso-depressis, atris, $\frac{1}{3}$ mm. diam., setis rigidis, 15 μ . long., sparsis, erectis ornatis; sporulis cylindraceis, utrinque rotundatis, rectis, continuis, hyalinis, 12 \approx 3,5.

Hab. in culmis in California (HARKNESS).

- *65. **Vermicularia affinis** Sacc. et Briard in Rev. Myc. 1885. — Pe- 4366
ritheciis nigris, innatis, in series parallelas dispositis; pilis brevibus rectis, paucis, epidermidem perforantibus præditis; sporulis falciformibus, hyalinis, simplicibus, 20-24 \approx 4.

Hab. in culmis siccis Graminaceæ cujusdam, prope Troyes Galliæ.

DOTHIORELLA Sacc. Syll. III, p. 235.

- *9. **Dothiorella diatrypoides** Sacc. et Berl. Misc. Myc. II, pag. 29. 4367
tab. IX, f. 15. — Acervulis transverse erumpentibus, pulvinatis, diatrypoides, atris, 2 mm. latis; peritheciis dense congestis, globosis, minute papillatis, $\frac{1}{6}$ mm. diam.; sporulis oblongo-fusoideis, 28-31 \approx 9-11, pluriguttulatis, hyalinis; basidiis sporulâ paullo brevioribus, bacillaribus fasciculatis.

Hab. in ramis emortuis corticatis Cerasi, Fiumicello prope Padova Ital. bor.

- *14. **Dothiorella endorhodia** Berl. Fungi Mor. fasc. I, tab. 8. — Pe- 4368
ritheciis 3-6-aggregatis, in stromate tecto dein epidermide scissa erumpente nidulantibus, atris, perforatis, globosis vel mutua pres-

sione angulatis, nucleo amœne roseo farctis, demum evacuatis; sporulis ovato-oblongis, episporio crassiusculo, granulosis vel pluriguttulatis, continuis, dilute roseis, 25-28 \times 10-12, basidiis brevibus, crassiusculis, juvenilibus apice inflato, guttuligero, 20-25 \times 3-4, suffultis, hyalinis.

Hab. in ramis crassioribus emortuis Mori albæ, Padova Ital. bor. — Species perpulchra, peritheciis nucleo læte roseo donatis mox dignoscenda.

- * 17. **Dothiorella Mori** Berl. Fungi Moricolæ Fasc. I, tab. 8. — Erum- 4369
pens, epidermide laceratâ cincta; peritheciis aggregatis vel in stromate nidulantibus, vix papillatis, atris; nucleo albido, pulposo; sporulis ovato-oblongis, episporio crassiusculo donatis, intus granulosis, vel minute guttulatis, hyalinis, 28-30 \times 12-14, continuis; basidiis filiformibus crassiusculis, brevibus suffultis, hyalinis, junioribus apice inflatis, guttuligerisque, 20-30 \times 3-4.

Hab. in ramis corticatis emortuis, Mori albæ et nigræ Fiumicello Ital. bor.

PLACOSPHERIA Sacc. Syll. III, p. 244.

- * 10. **Placosphæria Balanseana** Sacc. et Roum. in Rev. Myc. 1886, 4370
p. 20. — Stromatibus parallele seriatis, elongatis, utrinque acutis, prominentibus, sæpius hypophyllis, colliculosis, atris, plurilocellatis; sporulis fusoides, 6-8 \times 1,5-2, hyalinis; basidiis filiformibus, simplicibus vel ramulosis, 20-25 \times 1-1,5.

Hab. in foliis vivis Palmarum, Paraguay Bras.

CYTOSPORA Ehrenb. — Sacc. Syll. III, p. 252.

13. **Cytospora microstoma** Sacc. Syll. III, p. 254. var. **Cotoneastri** 486
Cooke in Grevillea XIII, p. 94, sporulis 6-7 \times 1,5. — In *Cotoneastro frigida*, Kew. Brit. var. **Amelanchieris** Cooke l. c., sporulis 5-6 μ . long. — In *Amelanchiere* Kew. Brit.

- * 29. **Cytospora Staphyleæ** Cooke in Grevillea XIV, p. 2. — Stro- 4371
matibus sparsis, 2-3-loculatis, epidermide vix elevata tectis, poro minuto pertusis; sporulis linearibus, curvatis, obtusis, allantoideis, hyalinis, 6 \times 1.

Hab. in ramis *Staphyleæ pennatæ* et *S. trifoliatæ*, Kew Britannicæ,

- * 30. **Cytospora Corni** West. Lambotte Fl. Belg. II, pag. 372. — 4372
Stromatibus parvis, brunneis, 3-5-ocularibus, nigris, epidermide brunnea tectis; loculis ovoideis, compressis; ostioliis conco-

loribus, prominulis; cirrho sporularum luteo-albo; sporulis minutis, cylindraceis, rectis vel leniter curvis.

Hab. in ramis Corni sanguineæ in Belgio.

- * 49. **Cytospora capitata** Fuck. in die zweite deutsch. Nordpolarf. 31, 4373
fig. 8. — Stromatibus sub corticis epidermide nidulantibus, multilocularibus, locellis radiatim dispositis, gelatinosis, olivaceis; disco perfecte globoso, 1 mm. diam., puberulo, olivaceo, poro centrali, punctiformi, sporulis cylindraceis, curvatis, continuis, hyalinis, 8 = 1.

Hab. in ramulis aridis Salicis arcticæ in Groenlandia.

- * 71. **Cytospora Verrucula** Sacc. et Berl. Misc. Myc. II, p. 8. — Stro- 4374
matibus mox erumpentibus et subsuperficialibus, globulosis, subinde depressis, atris, ostiolis minutis punctatis; peritheciis paucis, globoso-conicis stromate omnino immersis; sporulis allantoideis, hyalinis, 6 = 1-5; basidiis dichotome v. verticillato-ramosis, longis.

Hab. in ramis corticatis, Logan Australiæ. — *Cytosporæ tumidæ* et *Cyt. epixylæ* affinis.

- * 88. **Cytospora Evonymi** Cooke in Grevillea XIV, p. 4. — Grega- 4375
ria; stromatibus conicis, epidermide brunneola tectis, parvis, demum nigrescentibus, lucidis; sporulis allantoideis, curvatis, hyalinis, 8 = 2.

Hab. in ramulis Evonymi americani, Kew Britannia.

- * 90. **Cytospora Jasmini** Cooke in Grevillea XIV, p. 4. — Stromati- 4376
bus conicis, subcutaneis parvis, cuticula obscura tectis, laxe gregariis; sporulis linearibus, curvatis, obtusis (allantoideis), 6 = 1.

Hab. in ramulis Jasmini officinalis, Kew Britannia.

- * 125. **Cytospora Smilacis** Cooke in Grevillea XIV, p. 14. — Stroma- 4377
tibus pustulatis, gregariis, convexis, innato-erumpentibus, paucilocularibus; sporulis minutissimis, cylindricis, vix curvulis, hyalinis, basidiis duplo longioribus, 4 = 2.

Hab. in radicibus expositis Smilacis, Darien Georgia Amer. bor. (RAVENEL).

- * 129. **Cytospora Quercus Ilicis** Pass. Fung. Gall. nov. in Jour. d'Hist. 4378
nat. 1885, n. 4, p. 55. — Stromatibus epiphyllis, sparsis vel gregariis, conicis, nitidis, nucleo albo; sporulis cylindricis, hyalinis, $7-7\frac{1}{2} = 2\frac{1}{2}$.

Hab. in foliis deciduis Quercus Ilicis prope Sanjou (Charente Inferieure) in Gallia (BRUNAUD).

- * 130. **Cytospora Palmarum** Cooke in Grevillea XIII, p. 95. — Stro- 4379
matibus innato-erumpentibus, primo tectis, dein epidermidem per-

forantibus, $\frac{1}{2}$ -1 mm. diam.; loculis parcis; sporulis allantoideis, 6-1, hyalinis, profusis.

Hab. in petiolis *Palmarum* etc. Kew Britannia.

- * 133. **Cytospora Draconis** Sacc. et Berl. in Rev. Myc. 1886. — Stro- 4380
matibus erumpentibus, intus dedaleæformibus, atris; sporulis sub-
cylindraceis, $10 \approx 2-2\frac{1}{2}$, hyalinis, basidiis bacillaribus, simplicibus
suffultis, 30-40 $\approx 1\frac{1}{2}$.

Hab. in fructibus *Dracænæ Draconis* in Algeria.

Sect. 2. Phæosporæ Sacc.

SPHÆROPSIS Lév. — Sacc. Syll. III, p. 291.

- * 11. **Sphæropsis lichenoides** Sacc. in Rev. Myc. 1885, pag. 222. — 4381
Peritheciis gregariis, epidermide dealbata tectis, dein erumpenti-
bus, globosis, obtuse papillatis, $\frac{1}{3}$ mm. diam., atris; sporulis el-
lipsoideis, olivaceis, 14-18 $\approx 7-8$, initio stipitatis.

Hab. in ramis exsiccatis *Piri japonicæ* cultæ, Toulouse Gal-
liæ (ANGELA ROUMEGUÈRE).

- * 49. **Sphæropsis Betulæ** Cooke in Grevillea XIV, p. 4. — Subgrega- 4382
ria, interdum sparsa cuticula elevata tecta; peritheciis depresso
globosis, vix papillatis; sporulis ellipticis, utrinque rotundatis, con-
tinuis, luteolis, 30-32 ≈ 9 .

Hab. in ramulis *Betulæ albæ*, Kew Britannia.

- * 50. **Sphæropsis tabacina** Berl. Fungi Moricolæ fasc. I, t. 9, f. 12-15. 4383
— Peritheciis superficialibus, sparsis vel leniter gregariis, crusta
stromatica, atra insidentibus, globosis, atris, lucidis, in ostiolum
cylindraceum vel cylindraceo-conicum, subinde longiusculum desi-
nentibus, $\frac{1}{5}-\frac{1}{3}$ mm. diam.; sporulis ovoideis, episporio crassiu-
sculo, guttulatis, continuis, læte cinnamomeis; basidiis nullis vel
obsoletis.

Hab. in ligno putri *Mori albæ*, Fiumicello Ital. bor. — Li-
gno valde nigrefacto, peritheciis acute papillatis sporulisque ochra-
ceo-lutescentibus statim distinguenda.

- * 51. **Sphæropsis Mori** Berl. Fungi Mor. fasc. I, tab. 9, fig. 1-6, *Di-* 4384
plodia Mori Plur. Auct. — Peritheciis sparsis vel leniter grega-
riis, basi cortice insculptis, epidermide elevata dein fissa cinctis,
atris, globosis, sæpe collapsis, in ostiolum breve, conicum produ-
ctis, $\frac{1}{3}-\frac{1}{2}$ mm. diam.; sporulis oblongo-ovatis, sæpe basi attenua-
tis quandoque plasmatis bipartiti causa, loculo medio valde irre-

gulari præditis, 15-18 \approx 10-2, saturate olivaceis; basidiis hyalinis, brevibus, crassiusculis, suffultis.

Hab. in ramis corticatis Mori albæ in toto agro Veneto Ital. bor., sociâ *Diplodiâ Mori*.

- * 52. **Sphæropsis alnicola** Peck in 38 Rep. St. Mus. p. 95. — Peritheciis numerosis, 350-500 μ . diam., prominulis, hemisphæricis, erumpentibus, sæpe confluentibus, in maculis nigris; sporulis oblongis, 15-22 \approx 8-10. 4385

Hab. in ramulis emortuis Alni, West Albany Amer. bor.

- * 56. **Sphæropsis quercina** Cooke et Harkn. in Grevillea XIII, p. 111. — Peritheciis sparsis, subcutaneis, globoso-depressis, vix prominulis; sporulis subellipticis, continuis, utrinque rotundatis, demum olivaceo-fuligineis, 20-24 \approx 12. 4386

Hab. in ramis vivis Quercus in California (HARKNESS).

- * 73. **Sphæropsis Lupini** Cooke et Hark. in Grevillea XIII, p. 111. — Caulicola, sparsa, erumpens; peritheciis globoso-depressis, atris, demum semiemergentibus, pertusis; sporulis globoso-ovoideis, utrinque subacuminatis, continuis, demum atro-olivaceis, 15-17 \approx 8-10. 4387

Hab. in caule Lupini in California (HARKNESS).

- * 74. **Sphæropsis Smyrnii** Pass. Fung. Gall. nov. in Jour. d'Hist. nat. 1885, n. 4, p. 55. — Peritheciis gregariis, sæpe confluentibus, seriatis, compressis, rimose erumpentibus nigris; sporulis ellipticis vel ovoideis, continuis, fuligineis, 16-20 \approx 9-12. 4388

Hab. in caulibus emortuis Smyrnii Olusatri prope Font couverte in Gallia (BRUNAUD).

CONIOTHYRIUM Corda — Sacc. Syll. III, p. 305.

1. **Coniothyrium olivaceum** Bon. — Sacc. Syll. III, p. 305. *Var. Lauri nobilis* Brun. in Rev. Myc. 1886, p. 140. — Sporulis 6-S \approx 4. In ramis emortuis Lauri nobilis, Saintes Gallæ. 1723

- * 2. **Coniothyrium obscurum** Pass. in litt. Martelli in Flor. bogos. p. 148. — Peritheciis (genuinis?) fibris ligneis insidentibus vel intermixtis, oblongo-linearibus, atris; sporulis ovoideis, atro-fuscis, integris, 7,5-10 \approx 5-6. 4389

Hab. in lignis decorticatis, Keren Abyssiniæ (BECCARI).

- * 3. **Coniothyrium valsoideum** Peck in 38 Rep. St. Mus. pag. 97. — Peritheciis cæspitosis, stipatis, erumpentibus, laciniis epidermidis ruptæ circumdatis, subglobosis vel angularibus mutua pressione, atris; sporulis numerosis, subglobosis vel ovatis, coloratis, 5-6. 4390

Hab. in ramis emortuis Alni glutinosæ, West Albany Americæ borealis.

- * 15. **Coniothyrium Genistæ** (Roum.) Berl. et Vogl. *Septoria Genistæ* Roum. in Rev. Myc. 1884, p. 230. — Peritheciis innato-erumpentibus, prominentibus, globoso-inæqualibus, brevissime papillatis, gregariis, subinde confluentibus, subcoriaceis atris, $\frac{3}{4}$ mm. diam.; sporulis ellipticis, inæquilateralibus, brunneis.

Hab. in cortice emortuo Genistæ tinctoriæ, Carcassonne Galliæ.

- * 17. **Coniothyrium cassiæcolum** Cooke in Grevillea XIII, p. 96. — Peritheciis gregariis, globosis, cuticula elevata tectis, demum erumpentibus; sporulis ovalibus, enucleatis, pellucidis, pallide brunneis, $6 \approx 4$, continuis,

Hab. in caulibus Cassiæ maryllandicæ, Kew Britanniæ.

- * 47. **Coniothyrium rostellatum** Grove in Journ. of Bot. 1886, p. 135. — Peritheciis globosis, rostellato brevi, cylindrico instructis, v. ovoideis, rostro confluyente, $\frac{1}{6}$ - $\frac{1}{5}$ mm. alt., superficialibus, atris, rugulosis, sparsis v. subinde duobus semiconnatis, contextu parenchymatico, olivaceo, subpellucido; sporulis numerosis, ovoideis v. subglobosis, olivaceis, $4 \approx 2\frac{1}{2}$ -3 μ .

Hab. in interiore squamarum superficie conorum Pini silvestris Kings Norton, prope Birmingham, Britannia. — *C. dispersello* affine, at rostro manifesto distinctum.

- * 63. **Coniothyrium Euphorbiæ** (Roum.) Berl. et Vogl. *Phyllosticta Euphorbiæ* Roum. in Rev. Myc. 1885, p. 26. — Maculis epiphyllis, orbicularibus, rufo-brunneis, sparsis vel confluentibus, sæpe ad margines foliorum; peritheciis punctiformibus, nigris, $\frac{1}{10}$ mm. d.; sporulis ellipsoideis, 5-6 \approx 2,5, olivaceis.

Hab. in foliis vivis Euphorbiæ silvaticæ, Fontainebleau Galliæ.

- * 64. **Coniothyrium Fragariæ** Oud. Wersl. en Med. der Hon. Ak. van Wet. 2, XVIII, 37, et Aansw. IX-X, p. 27. — Peritheciis membranaceis, fuliginis, apice irregulariter pertusis; sporulis fuliginis, late ellipticis, 11,6 \approx 9,3, utrinque vel uno alterove apice acutato, basi sæpe basidii portiuncula hyalina appendiculatis.

Hab. in receptaculis maturis Fragariæ vescæ, Amsterdam Hollandiæ.

- * 66. **Coniothyrium Arthurianum** Sacc. et Berl. Misc. Myc. II, n. 71. — Peritheciis gregariis, epidermide velatis, globoso-depressis, pa-

pillulatis, $\frac{1}{6}$ mm. diam., atris; sporulis e globoso ellipsoideis, utrinque rotundatis, 5-6 \approx 4-5, pallide olivaceis.

Hab. in caulibus herbaceis (Cucurbitæ?) Geneva Amer. bor., socio *Epicocco neglecto* (I. C. ARTHUR).

- * 67. **Coniothyrium Gastonis** (Roum.) Berl. et Vogl. *Phyllosticta Gastonis* Roum. in Rev. Myc. 1886, p. 19. — Peritheciis raris, nigris, punctiformibus, applanatis, 100-150 μ . diam.; sporulis globulosis, brunneis, 5 μ . diam., guttulatis, in maculis orbicularibus, brunneis, confluentibus. 4397

Hab. in foliis vivis Musæ Sapientum, Haiti Australiæ.

- * 79. **Coniothyrium Resinæ** Sacc. et Berl. Misc. Myc. II, n. 130. t. IX, f. 17. — Peritheciis superficialibus, globulosis, atris, fere epapillatis, $\frac{1}{7}$ - $\frac{1}{8}$ mm. diam., subiculo atro, coniothecioideo insertis; contextu celluloso, nigricante; sporulis globosis, 1-guttulatis, 1,5-2, basidiis bacillaribus, 15 \approx 1,5-2, dilute olivaceis, fasciculatis. 4398

Hab. in resina dejecta uda in horto Patavino Ital. bor. (DOM. SACCARDO). — Cum pycnidio *Retinocycti flavi* contextu atro perithecii statim distinguenda species.

HARKNESSIA Cooke. — Sacc. Syll. III, p. 320.

- * 1. **Harknessia Arctostaphyli** Cooke et Hark. in Grevillea XIII, p. 111. — Amphigena; peritheciis innatis, erumpentibus, paullulis, $\frac{1}{3}$ mm. diam., ore orbiculari elevato, subdenticulato; sporulis ellipticis, fuliginosis, 20 \approx 9, deorsum pedicellatis; basidiis brevibus. 4399

Hab. in foliis Arctostaphyli in California (HARKNESS).

- * 2. **Harknessia hyalina** E. et E. in Jour. of Myc. I, p. 92. — Acervulis (peritheciis?) innatis, subglobosis, $\frac{1}{4}$ mm. diam., epidermide elevata subinde stellatim rupta tectis; sporulis in globulum albescentem congestis, oblongo-fusiformibus, hyalinis vel luteolis, 20-25 \approx 4-6, appendicula setiformi, recta v. vix curva, 15-20 μ . longa auctis; basidiis brevibus, cylindræis vel subconoideis, 6-10 \approx 4. 4400

Hab. in foliis emortuis Quercus coccinæ, Newfield Amer. bor. sociâ *Physalospora quercifoliâ*, cujus verisimiliter status pycnidicus habenda.

- * 3. **Harknessia caudata** E. et E. in Journ. of Myc. p. 92. — Acervulis (peritheciis?) innato-erumpentibus, globosis, primo epidermide tectis dein ea poro rotundo pertusa massam sporularum revelantibus; sporulis fusiformi-ellipticis, brunneis, 15-20 \approx 6-8, in globulum minutum, atrum expulsis, apice appendicula setiformi, 4401

hyalina, recta vel leniter curva, 15-25 μ . longa auctis; basidiis cylindræceis, hyalinis, 12-15 \times 2,5 \times 3, diu persistentibus.

Hab. in foliis et ramulis emortuis *Quercus*, Newfield Amer. bor. — Verisimiliter status pycnidicus *Cryptosporellæ farinosæ* habenda.

HAPLOSPORELLA Speg. — Sacc. Syll. III, p. 323.

- *1. **Haplosporella carbonacea** Pass. in litt. Martelli in Fl. bog. p. 148. 4402
— Peritheciis cæspitosis, erumpentibus, globosis, atris, stromate carbonaceo insidentibus vel immersis; sporulis ellipsoideis, castaneo-fuscis, integris, 10-15 \times 6,5-7.

Hab. in rimis corticis, Keren Abyssiniæ (BECCARI).

- *2. **Haplosporella Brunaudiana** Pass. in litt. Brun. in Rev. Myc. 1886, 4403
p. 140. — Peritheciis 1-2 stromate pulviniformi immersis, brunneis, nucleo albo; sporulis ellipsoideis, continuis, subinde 1-2-guttulatis, fuliginis, 15-20 \times 9-10.

Hab. in ramis emortuis *Ericæ scopariæ* pr. Saintes Galliæ.

- *3. **Haplosporella moricola** Berl. Fungi mor. fasc. I, tab. 9, fig. 7-11. 4404
Diplodia Mori forma gregaria Auct. — Peritheciis in stromate carbonaceo, elongato, epidermidem subelevante et tandem eam radiatim vel lineatim rumpente immersis, quandoque distinctis et confluenso difformibus, nucleum album continentibus, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam.; sporulis ovoideis, sæpe basi attenuatis, immaturis episporio crassiusculo præditis, pallidis, guttuligeris et plasmate bipartito loculo centrali, irregulari instructis, 20-23 \times 10, maturis olivaceo-fuliginis, continuis, basidiis crassiusculis, hyalinis suffultis.

Hab. in ramis corticatis crassioribus *Mori* albæ in Gallia.

Sect. ξ . Phæodidymæ Sacc.

DIPLODIA Fr. — Sacc. Syll. III, p. 329.

- *34. **Diplodia Genistarum** Cooke in Grevillea XIII, p. 96. — Subsparsa; 4405
peritheciis cortice immersis, cuticula tectis, vix perspicuis, globosis; sporulis ellipticis, uniseptatis, non constrictis, pallide brunneis, 12-14 \times 6.

Hab. in ramulis *Genistæ ætnensis* et *Coronillæ Emeri*, Kew Britannicæ.

- *50. **Diplodia photiniæcola** Brun. in Rev. Myc. 1886, p. 141. Ita no- 4406
minanda est *Diplodia Photiniæ* Brun. Liste Pl. Saint. pag. 169, quæ a *D. Photiniæ* Speg. certe diversa. — Peritheciis sparsis v.

gregariis, globulosis, circ. $\frac{1}{3}$ mm. diam., atris, tectis, demum erumpentibus; sporulis oblongis, primo continuis, demum uniseptatis, medio non constrictis, granulosis, primum hyalino-olivaceis, dein leniter brunneolis, 28-30 \approx 14-16.

Hab. in ramis emortuis *Photiniæ serrulatæ*, Saintes Galliæ.

55. **Diplodia Rubi** Fr. Sacc. Syll. III, p. 339. *Var. Rubi Idæi* Brun. 1879
in Rev. Myc. 1886, p. 141. — Peritheciis sparsis vel gregariis, sæpe seriatim dispositis et tum subinde confluentibus, tectis, nigris, subglobosis; sporulis ellipsoideis, oblongis, brunneis, 25 \approx 12, uniseptatis, ad septum constrictis. — In sarmentis emortuis *Rubi Idæi*, Saintes Galliæ.
72. **Diplodia spireina** Sacc. Syll. III, p. 342. *forma major* Brun. in 1896
Rev. Myc. 1886, pag. 141. — Sporulis 22-30 \approx 12-14, medio constrictis. — In caulibus emortuis *Spireæ crenatæ*, Saintes Galliæ.
- * 98. **Diplodia Agni casti** Pass. in Herb. Critt. Ital. Ser. II, n. 1479. 4407
— Peritheciis cortice immersis, miliariformibus, crebre lateque sparsis; tectis, dein epidermide fissa apice denudatis, atris; sporulis ellipticis, medio leniter constrictis, castaneo-fuscis, magnitudine varia, ut plurimum 15 \approx 7.
Hab. ad ramulos *Viticis Agni casti* gelu tactos pr. *Parmæ* Ital. bor.
- * 99. **Diplodia viburnicola** Brun. Fung. Gall. nov. in Jour. d'Hist. 4408
nat. 1885, n. 4, p. 55. — Peritheciis sparsis vel gregariis, minutis, globosis, nigris, tectis, demum erumpentibus, epidermide rimose rupta cinctis; sporulis oblongis, utrinque rotundatis, 1-septatis, medio constrictis, 23 \approx 12-13, fuliginosis.
Hab. in ramis siccis *Viburni Tini* prope Saintes in Gallia. — A *D. Tini* forma ramulicola differt sporulis medio constrictis.
- * 112. **Diplodia Paulowniæ** Cooke in Grevillea XIII, p. 96. — Subsparsa; 4409
peritheciis subglobosis, atris, longitudinaliter erumpentibus, non superficialibus; sporulis ellipticis, vix constrictis, uniseptatis, brunneolis, 20-22 \approx 8.
Hab. in ramulis *Paulowniæ imperialis*, Kew Britannicæ.
- * 140. **Diplodia salicina** Lév. in Ann. Sc. Nat. (Bot.) 1846, p. 292. 4410
— Peritheciis gregariis, innatis, globosis, nigris, erumpentibus, epidermide tectis, ostiolis papillatis, demum deciduis; sporulis... ut in *D. vulgari*.
Hab. in ramis *Salicis albæ* secus *Matronam St. Maurice* pr. Paris Gallicæ (LÉVEILLÉ).
- * 165. **Diplodia Kerensis** Pass. in litt. Martelli in flor. bog. p. 148. — 4411

Peritheciis gregariis, globoso-oblongis, tectis, dein epidermide fissa vix erumpentibus; sporulis oblongo-ellipsoideis, septatis, non constrictis, castaneo-fuscis, 15-20 \approx 7,5-10.

Hab. in rimis corticis, Keren Abyssiniæ (BÈCCARI).

- * 167. **Diplodia Phyllactiniæ** Cookè et Hark. in Grevillea XIII, p. 112. 4412
— Epiphylla; peritheciis gregariis, superficialibus, liberis, globosis (ut in *Erysipheis*); sporulis ellipticis, uniseptatis, nec constrictis, fuscis, 12 \approx 5.

Hab. in foliis Acaciæ etc. in California (HARKNESS).

- * 168. **Diplodia maculicola** Winter in Hedwigia 1885, p. 259. — Pe- 4413
ritheciis plerumque in maculis irregularibus rotundatisve, arescentibus, albidis vel pallide fuscidulis gregariis, ab epidermide pustulatim elevata, centro ab ostiolo perithecii minute perforata semper tectis, rarius sparsis et interdum erumpentibus, depresso globosis, fere lenticularibus, poro pertusis, tenuissime membranaceis, fuscidulis, 240-300 μ . latis; sporidiis oblongis vel elliptico-oblongis, sæpe parum irregularibus, medio uniseptatis, sed non constrictis, utrinque late rotundatis, imo subtruncatis, dilutissime fuscidulis, 11-16 \approx 5.

Hab. ad folia viva Leguminosæ adhuc indeterminatæ pr. S. Francisco in Brasilia (E. ULÉ).

- * 185. **Diplodia seminula** Pat. in Rev. Myc. 1886, p. 83. — Perithe- 4414
ciis minutissimis, nigris, lucentibus, globulosis, 40-60 μ . diam.; sporulis ovoideis, uniseptatis, 6-7 \approx 3-4, brunneis.

Hab. in foliis emortuis Primulæ bracteatae, Lankong Yunnan Asiæ (AB. DAVID).

- * 203. **Diplodia inconspicua** Cooke in Grevillea XIII, p. 96. — Hypo- 4415
phylla; peritheciis minutis, immersis, inconspicuis, gregariis, cuticula non decolorata tectis; sporulis ellipticis, non constrictis, uniseptatis, pallide brunneis, 12 \approx 6.

Hab. in pagina superiore et inferiore foliorum emortuorum *Buxi* sempervirentis Kew. Britann. — A *D. Buxi* certe distincta.

- * 207. **Diplodia Sterculiæ** Winter in Hedwigia 1886, p. 103. — Pe- 4416
ritheciis gregariis, semper omnino immersis, fere lenticularibus vel depresso globosis, pariete crassa, atra, coriaceo-membranacea ostiolo cylindrico, obtuso, crasso, peridermium perforante donatis, prominulis, 310-420 μ . diam., 210-240 μ . altis; hyphis fuscis, repentibus obsitis; sporulis ellipticis, medio septatis sed non constrictis, fuscis, 24-30 \approx 12-14, copiose expulsis et substratum longe lateque inquinantibus.

Hab. in fructu putri Sterculiæ in Insula St. Thome Africae occidentalis.

- *229. **Diplodia pusilla** Sacc. et Briard. in Rev. Myc. 1886. — Peritheciis sparsis, globosis, sæpe depressis, diu epidermide tectis, dein liberis, $\frac{1}{5}$ - $\frac{1}{4}$ mm. diam.; ostiolo papillato, centrali; sporulis ovalibus vel ovato-oblongis, obtusissimis, 1-septatis, ad septa constrictis, leniter fuliginis, 11-13 \approx 5,5-6. 4417

Hab. in caulibus siccis Cichorii Intybi prope Troyes Galliae.

- *230. **Diplodia Epilobii** Brun. in Rev. Myc. 1886, p. 141. — Peritheciis globulosis, subcompressis, sparsis vel gregariis; sæpe confluentibus, innatis, demum erumpentibus, atris; sporulis oblongis, 1-septatis, medio non constrictis, fuliginis, 22-25 \approx 12-15. 4418

Hab. in caulibus emortuis Epilobii angustifolii, Saintes Galliae.

- *231. **Diplodia cistina** Cooke in Grevillea XIV, p. 4. — Gregaria, immersa, cortice tecta; peritheciis late conicis, atris, sæpe in lineas vel in pustulas parvas dispositis; sporulis ellipticis, uniseptatis, non constrictis, brunneis, 16-22 \approx 9-10. 4419

Hab. in caulibus et ramulis Cisti laurifolii, Kew Brit.

- *240. **Diplodia Fuchsiae** Cooke et Hark. in Grevillea XIII, p. 112. — Caulicola; peritheciis subcutaneis, gregariis, globosis, atris, epidermide tectis, numquam erumpentibus; sporulis ellipticis, uniseptatis, nec constrictis, fuscis, 28 \approx 10. 4420

Hab. in caulibus Fuchsiae in California (HARKNESS).

- *241. **Diplodia Crassulæ** Cooke et Hark. in Grevillea XIII, p. 112. — Caulicola; peritheciis gregariis, subcutaneis, globosis, atris, demum epidermide fissurata erumpentibus; sporulis ellipsoideis, uniseptatis, medio vix constrictis, fuscis, 20-22 \approx 8. 4421

Hab. in caulibus Crassulæ in California (HARKNESS).

- *242. **Diplodia Rehmii** Bäumler in Hedw. 1885, p. 75. — Peritheciis immersis, sparsis vel subaggregatis, globosis, ostiolo papilliformi, peridermium perforante donatis, atris, membranaceis, 200-300 μ . diam.; sporulis subclavatis, medio uniseptatis, non vel vix constrictis, maturitate opace nigris, levibus, loculo inferiore parum angustiore, utrinque rotundatis, 16-20 \approx 8-10. 4422

Hab. in caulibus emortuis Pelargonii, Blumentöpfen, Pressburg Hugariae?

- *243. **Diplodia vincæcola** Brun. in Rev. Myc. 1886, p. 141. — Peritheciis sparsis vel gregariis, globulosis, tectis, ostiolo papilliformi 4423

erumpente, atris; sporulis ovato-oblongis, brunneis, 1-septato-constrictis, 22-35 \approx 12-15.

Hab. in caulibus emortuis Vincæ majoris, Saintes, Font-couverte Galliæ.

- *256. **Diplodia Coryphæ** Cooke in Grevillea XIII, p. 96. — Immersa, 4424
erumpens, cuticula rimose longitudinaliterque rupta; peritheciis minimis, atris, tectis; sporulis subglobosis vel ovalibus, non constrictis, uniseptatis, episporio tenui, pallide fuligineo, 14-17 \approx 10.

Hab. in petiolis Palmarum (fan palms) Kew Britannicæ.

- *264. **Diplodia Narthecii** Sacc. Bomm. et Rouss. in Bull. Soc. R. Bot. 4425
Belg. 1886, p. 180. — Peritheciis sparsis, epidermide velatis, subglobosis, prominulis, nigricantibus, papillatis, 160-200 μ . diam.; sporulis brunneis, ellipsoideis, obtusissimis 1-septatis, medio non constrictis, 9 \approx 5-6.

Hab. in scapis (hampes) Narthecii ossifragi, Westmalle Belgii. — *D. Buxi* et *D. pinnarum* affinis.

DIPLODIELLA Karst. — Sacc. Syll. III, p. 375.

- *2. **Diplodiella faginea** Bäumler in Hedw. 1885, p. 76. — Peritheciis 4426
superficialibus, 0,5 mm. diam., atris, carbonaceis; sporulis 18-23 \approx 8-10, fuscis uniseptatis, medio parum constrictis, utrinque rotundatis, vel subclavatis, deorsum sursumve magis acuminatis.

Hab. in ramis Fagi silvaticæ in Hungaria.

Sect. 1. Hyalodidymæ Sacc.

ASCOCHYTA Lib. — Sacc. Syll. III, p. 384.

- *7. **Ascochyta Cassandræ** Peck in 38 Rep. St. Mus. p. 94. — Ma- 4427
culis orbicularibus vel irregularibus, rufo-brunneis vel brunneis et rufo-brunnee marginatis; peritheciis epiphyllis, minutis erumpentibus, nigrescentibus; sporulis oblongo-fusoideis, utrinque acutis, uniseptatis, 10-16 \approx 3-4, hyalinis.

Hab. in foliis vivis Cassandræ calyculatæ in montibus Adirondack Amer. bor.

- *8. **Ascochyta Mespili** Pass. in litt. Brunaud in Rev. Myc. 1886, 4428
p. 141. — Maculis primo brunneis demum centro griseis v. brunneo-griseis, irregularibus, sæpius marginalibus; peritheciis innatis dein erumpentibus, globulosis, nigris; sporulis ellipsoideis, 1-septatis, medio non vel vix constrictis, pallide olivaceis, 10 \approx 4.

Hab. in foliis Mespili germanicæ, Saintes Galliæ.

- * 13. **Ascochyta arenaria** Lév. Voy. p. 115, t. V, fig. 7. — Hypophylla; peritheciis sparsis, raris, innatis, e macula viridi emergentibus, ostioliis inconspicuis, sporulis linearibus, pellucidis, septatis, sporidioliis globosis. 4420

Hab. in foliis Aceris campestris prope Laspi Rossicæ.

- * 14. **Ascochyta ligustrina** Pass. Fung. Gall. novi, in Journ. d'Hist. nat. 1885, n. 4, pag. 55. — Maculis vermiformibus, subochraceis, brunneo-marginatis; peritheciis paucis, sparsis, atris, acutiusculis; sporulis lanceolatis, 1-septatis, ad septum leniter constrictis, olivaceis, 5-7 \approx 2 $\frac{1}{2}$. 4430

Hab. in foliis Ligustri vulgaris prope Saintes in Gallia (BRUNAUD).

- * 37. **Ascochyta bacilligera** Wint. Cont. Flor. myc. Lus. Ser. VI, p. 17. — Peritheciis in macula irregulari, angulata, determinata, subtus pallide fuscescente, supra grisea, margine fusco, angusto cincta, usque 10 mm. lata, hypophylla sparsis, lenticularibus, nitide atris, poro pertusis, 100 μ . diam.; sporidiis bacilliformibus i. e. tenuissimis, cylindricis, utrinque rotundatis, medio spurie uniseptatis, hyalinis, 7-12 \approx 1. 4431

Hab. ad Phillyreæ angustifoliæ folia viva, Matta do Busaco in Lusitania (MOLLER).

- * 55. **Ascochyta salicicola** Pass. Fung. Gall. novi in Jour. d'Hist. nat. 1885, n. 4, p. 16. — Maculis epiphyllis, rubiginoso-fuscis, angulosis; peritheciis exiguis, solitariis vel subgregariis; sporulis lanceolatis, hyalinis, medio septatis, 8-10 \approx 2 $\frac{1}{2}$. 4432

Hab. in foliis Salicis albæ prope Saintes, Bussac, le Port d'Euvanc etc. in Gallia (BRUNAUD).

- * 56. **Ascochyta Vitellinæ** Pass. Fung. Gall. novi in Jour. d'Hist. nat. 1885, n. 4, p. 16. — Peritheciis hypophyllis, subgregariis, velatis, subochraceis; sporulis fusiformibus, apicibus acutis, prope medium septatis, hyalinis, 12-15 \approx 4-4 $\frac{1}{2}$. 4433

Hab. in foliis Salicis vitellinæ prope Saintes in Gallia (BRUNAUD).

- * 76. **Ascochyta Calpurniæ** Wint. in Hedw. 1885, I. — Peritheciis in macula albida vel sordide grisea, angulato-rotundata vel irregulari, linea fusco-purpurea, elevata determinataque limitata plerumque epiphylla, rarius etiam hypophylla gregariis, minutissimis, atris, globosis, tenuissime membranaccis, 60-70 μ . diam.; sporulis fusiformi-acicularibus, sæpe inæquilateralibus, utrinque attenuatis, medio uniseptatis, non constrictis, hyalinis, 6-16 \approx 1-1,5. 4434

Hab. in foliis Calpurniæ silvaticæ prope Somerset-East ad pedem montis Boschberg, Prom. Bonæ Spei (MAC OWAN).

- *77. **Ascochyta Drabæ** Oudem. Contr. à la Flore myc. de Nowaja 4435
Semlja p. 12, t. I, f. 11. — Peritheciis in foliorum laminis petiolisque innatis, sparsis, membranaceis, atris, subsphæricis, poro centrali, denique supra epidermidem prominentibus, 100-130 μ . diam.; sporulis oblongis, 10 \approx 2 $\frac{1}{2}$, utrinque obtusis, medio septatis ibique levissime contractis, hyalinis.

Hab. in foliis Drabæ alpinæ in insula Nowaja Semlja.

- *83. **Ascochyta colorata** Peck in 38 Rep. St. Mus. pag. 94, tab. 2, 4436
fig. 9-10. — Maculis indefinitis, sæpe confluentibus, rufis centro brunneis, in superficie inferiore pallidioribus; peritheciis minutis, 100-120 μ . diam., atris; sporulis oblongis sæpe utrinque acutis, rectis vel curvulis, obscure uniseptatis, medio leniter constrictis, 17-25 \approx 7-8, hyalinis.

Hab. in foliis vivis Fragariæ virginianæ, West Albany Amer. borealis. — Ab *A. Fragariæ* colore macularum et sporulis differt.

86. **Ascochyta altheina** Sacc. et Bizz. Syll. III, p. 399, var. **Brunneo-cincta** Brunaud in Rev. Myc. 1886, p. 141. — Maculis brunneo-marginatis; sporulis ellipsoideo-oblongis, leniter 1-septatis, medio vix constrictis, 30 \approx 3,5.

Hab. in foliis languescentibus Althææ officinalis, Chanier Galliæ.

- *87. **Ascochyta Papaveris** Oudem. Contr. à la Flore myc. de Nowaja 4437
Semlja p. 12, t. I, f. 10. — Peritheciis in pagina superiore (an etiam inferiore?) foliorum nigrescente sparsis, nigris, parvis, 200 μ . diam., membranaceis, e cellulis parenchymaticis, satis amplis, fuliginæ coloris contextis; sporulis late fusoideis vel subellipsoideis, hyalinis, medio septatis, 9 \approx 3 $\frac{1}{2}$, gelatina distentis, maxima copia e peritheciis erumpentibus.

Hab. in foliis Papaveris nudicaulis in insula Nowaja Semlja.

- *96. **Ascochyta atro-punctata** Wint. in Hedw. 1835, I. — Peritheciis gregariis, rarius sparsis, sæpe circumstantibus, in maculis rotundatis indeterminatis, sæpe confluentibus, lutescentibus, amphigenis, immersis, depresso globosis, atris, demum late apertis, cupuliformibus, 160-180 μ . diam.; sporulis oblongo-fusiformibus, curvatis, bicellularibus, cellula superiore plerumque parum crassiore, inferiore deorsum attenuata, hyalinis, 19-24 \approx 3-4.

Hab. in foliis *Osteospermi moniliferi* in monte Tabulari, Promont. Bonæ Spei (Mac Owan).

- *97. **Ascochyta Treleasei** Berl. et Vogl. *Ascochyta* spec. Treleas. 4439
Par. Fungi of Viscos. p. 17. — Maculis brunneis, orbicularibus, circiter 3 mm. diam.; peritheciis brunneis, 100-120 μ . diam., vix ad ostiolum carbonaceis; sporulis hyalinis, ovoideis, oblongis vel reniformibus, sæpe medio constrictis, 7-14 \approx 3-5, 2-4-guttulatis, dein bilocularibus.

Hab. in foliis *Silphii integrifolii* et *Vernoniæ noveboracensis* Stoughton, La Crosse, Pammel Amer. bor.

- *113. **Ascochyta Fagopiri** Thüm. et Boll. Fung. lit. austr. in Soc. 4440
adriat. Sc. Nat. 1885, p. 13, n. 443. — Peritheciis minutis, sparsis, sine macula distincta, semiimmersis, subglobosis, atris; sporulis ellipsoideis, bicellularibus, medio constrictulis, utrinque abbreviato-rotundatis, nucleo magno achroo in quaque cellula 8,5-10 \approx 3-4,5, hyalinis.

Hab. in caulibus aridis *Fagopiri æsculenti* in Goritia.

- *118. **Ascochyta Oxybaphi** Trelease in Journ. of Myc. I, p. 14. — Ma- 4441
culis atro-brunneis, rotundis, 1-2 mm. diam.; peritheciis in pagina superiore foliorum, minutis, brunneis, carbonaceis circa ostiolum; sporulis 2-cellularibus, 10-17 \approx 4, quandoque medio constrictis, hyalinis.

Hab. in foliis *Oxybaphi nyctaginei* in Amer. bor.

- *129. **Ascochyta Spartinae** Trelease in Journ. of Myc. I, pag. 14, et 4442
Par. fung. of Viscos. p. 17. — Maculis rotundis, pallide luteis; sporulis in massam carneo-coloratam exilientibus, hyalinis, rectis vel vix curvatis, sæpe utrinque acuminatis, 35 \approx 3, obscure biseptatis vel demum 2-3-septatis.

Hab. in foliis *Spartinae cynosuroidis*, Madison Amer. bor. — Verisimiliter inter species *Septoriae* vel *Ascochytae* in *Mono-cotyledoneis* parasiticas inquirenda.

- *130. **Ascochyta Rhynchosporæ** (Pat.) Berl. et Vogl. *Phoma Rhyn-* 4443
cosporæ Pat. in Rev. Myc. 1886, pag. 53. — Peritheciis sparsis, punctiformibus, globosis, nigris, mycelio radiante, brunneo cinctis; sporulis ovoideis, uniseptatis, brunneis, 6-7 \approx 3-4.

Hab. in *Rhynchospora japonica*, Kioussiou Japon. — «An præsentem mycelio novi generis typus?».

DARLUCA Cast. — Sacc. Syll. III, p. 410:

- *1. **Darluca interseminata** Wint. in Journ. of Myc. 1885, p. 102. — 4444

Peritheciis gregariis seu dense sparsis, superficialibus, punctiformibus, globosis, demum collapsis, poro pertusis, membranaceis, fuscis, 80-130 μ . diam.; sporulis oblongis vel oblongo-cylindraceis, utrinque rotundatis, hyalinis, uni-rarissime bi-septatis, ad septum vix vel perparum constrictis, 12-14 \approx 3.

Hab. in foliis *Stellariæ*, sociâ *Peronosporâ Alsinearum*, in Amer. bor.

TIAROSPORA Sacc. et March. in Rev. Myc. 1885, p. 148 (Etym. a *tiara*, ob sporulas appendiculato-galeiformes). — Perithecia epidermide tecta, globulosa, atra, obtuse papillata, membranacea. Sporulæ ellipsoideæ, 1-septatæ, hyalinæ, granulosæ, utrinque appendice apice dilatato-pileata auctæ. Contextu peritheciî atro et forma abnormi appendicis sporularum ab *Ascochyta* et *Darlucâ* mox dignoscitur.

1. **Tiarospora Westendorpii** Sacc. et March. in Rev. Myc. 1886, p. 118. 4445
— Peritheciis gregariis, horizontaliter ellipticis, $\frac{1}{2}$ mm. long., $\frac{1}{4}$ latis; ostiolo obtuso; sporulis ellipsoideo-rhombeis, 1-septatis, non constrictis, 25 \approx 16-18; appendicibus 5-6 μ . long.

Hab. in foliis *Ammophilæ arundinaceæ*, Ostende in Belgio (WESTENDORP).

DIPLODINA West. — Sacc. Syll. III, p. 411.

- *1. **Diplodina cupularis** Karst. in Hedw. 1885, p. 73. — Peritheciis 4446
superficialibus, confertis vertice collapsis, cupuliformibus, ostiolo papillato, atris, glabris, opacis, minutis, circiter 0,3 mm. diam.; sporulis ellipsoideis, 1-5-septatis vel biguttulatis, hyalinis, 12-17 \approx 6-9.

Hab. in ligno secto betulino ad Mustiala Fennicæ. — «An *Stagonospora*?».

- *2. **Diplodina Acerum** Sacc. et Br. in Rev. Myc. 1886. — Peritheciis 4447
innatis, cortice immersis, erumpentibus, epidermide rupta tectis, sporulis oblongo-fusiformibus, utrinque leniter attenuatis, hyalinis, plerumque 1-septatis et sæpe ad septum constrictis, 12-16 \approx 4-4,5.

Hab. in ramulo cæso delapsoque *Aceris Pseudoplatani* prope Troyes Gallicæ.

- *3. **Diplodina Grossulariæ** Sacc. et Briard in Rev. Myc. 1886. — Pe- 4448
ritheciis sparsis, epidermide velatis, nigris globulosis, lucidis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam.; sporulis oblongo-cylindraceis, obtusis vel leniter fusiformibus, 1-septatis, non contractis, 8-10 \approx 2-2,5, hyalinis.

Hab. in caulibus emortuis *Ribis Uvæcrispæ*, Troyes Gallicæ (BRIARD).

- *9. **Diplodina Chenopodii** Karst. in Hedw. 1885, p. 73. — Peritheciis sparsis, initio epidermide tectis, subsphæroideis, vertice in ostiolum conoideum, poro pertusum attenuatis, glabris, atris, 0,1-0,2 mm. diam.; sporulis oblongatis, utrinque obtusissimis, rectis, 1-septatis, eguttulatis, ad septa vix constrictis, hyalinis, 14-16 \approx 5,6-6,5. 4449

Hab. ad caules emortuos Chenopodii viridis prope Mustiala Fennia.

- *12. **Diplodina Gallæ** Ell. et Ev. in Jour. of Myc. 1886, p. 37. — Minuta, atra; peritheciis epidermide tectis, dein ea rupta suberumpentibus, sparsis vel 3-6-aggregatis; sporulis obovatis, 1-septatis, subhyalinis (pallide luteolis), 10-12 \approx 5-7; basidiis crassiusculis. 4450

Hab. in gallis quercinis, Massachusetts Amer. bor. (C. H. CLARKE).

- *13. **Diplodina Smilacis** Ell. et Ev. in Journ. of Myc. 1886, p. 101. — Peritheciis sparsis, depressis, globosis, $\frac{1}{6}$ mm. diam., epidermide nigrescente, ostiolo minuto perforata, tectis, prominulis; sporulis oblongis, vel ellipsoideo-oblongis, hyalinis, binucleatis, 1-septatis, ad septum vix constrictis, 7-8 \approx 3-3,5. 4451

Hab. in caulibus emortuis Smilacis, Newfield Amer. bor.

- *14. **Diplodina Ammophilæ** Trail. in Scot. Nat. I, p. 76. — Peritheciis sparsis inter nervulos, ovalibus, ostiolo papillato pertusis, obscuris; sporulis hyalinis, late fusiformibus, 30 \approx 12, uniseptatis, utrinque mucoso-appendiculatis. 4452

Hab. in foliis emortuis Ammophilæ arundinacæ, Aberdeen Scot.

CYSTOTRICHA B. et Br. — Sacc. Syll. II, p. 413.

- *2. **Cystotricha aurodisca** Cooke in Grevillea V, p. 56. — Peritheciis ovatis vel ellipsoideis, longitudinaliter erumpentibus, margine serrato, disco aurantiaco; basidiis gracilibus, sursum ramosis; sporulis cylindræeis, simplicibus, «an denique uniseptatis?». 4453

Hab. in frustulis lignosis, Darenth Britannia.

Sect. 5. Phragmosporæ Sacc.

1. *Phæophragmiæ* Sacc.

HENDERSONIA Berk. — Sacc. Syll. III, p. 419.

- *1. **Hendersonia affinis** Pass. in litt. Brunaud in Rev. 1886, p. 142. 4454

— Peritheciis amphigenis, punctiformibus, hinc inde aggregatis, maculis inter nervos inusidentibus, subinde sparsis, atris; sporulis ellipsoideo-oblongis, biseptatis, raro uniseptatis, septis non vel vix constrictis, brunneo-olivaceis, $12,5 \approx 5$.

Hab. in foliis putrescentibus Tiliæ europææ, Saintes Galliæ.

— Sporulis biseptatis *H. biseptatæ* affinis.

- *3. **Hendersonia Coronillæ** Cooke in Grevillea XIII, p. 97. — Peritheciis sparsis vel gregariis, cuticula leniter elevata tectis, subglobosis vel depressis; sporulis primo uniseptatis, ellipticis, brunneis, $12 \approx 6$, dein elongatis, constrictis, leniter curvatis, triseptatis, $18 \approx 7$. 4455

Hab. in ramulis Coronillæ Emeri, et Baccharidis halimifoliæ, Kew Britanniæ.

6. **Hendersonia sarmentorum** West. Sacc. Syll. III, p. 420. *Var. laurina* Cooke in Grevillea: sporulis $18 \approx 5$. In Lauro nobili, Kew Brit. — Verisimiliter ad speciem novam referenda sporulis quam in typo multo longioribus. — *Var. Forsythiæ* Brun. in Rev. Myc. 1886, pag. 142: sporulis rectis vel paullo curvatis, $12-14 \approx 5$. In ramis emortuis Forsythiæ viridissimæ, Saintes Galliæ. 2995

- *7. **Hendersonia ambiens** Cooke in Grevillea XIV, p. 5. — Peritheciis gregariis, cuticula elevata, longitudinaliter perforata tectis, globosis, mox papillatis; sporulis anguste ellipticis, triseptatis, non constrictis, pallide brunneis, $20 \approx 7-8$; basidiis sporularum longitudinem æquantibus, mox evanidis. 4456

Hab. in ramulis Aceris dasycarpi, Kew Britanniæ.

12. **Hendersonia Fiedleri** West. Sacc. Syll. III, p. 421. *Var. Symphoricarpi* Cooke in Grevillea: sporulis triseptatis, $18 \approx 4$, pallide coloratis. 2999

Hab. in sarmentis Symphoricarpi racemosi, Kew, Swanscombe Brit.

- *26. **Hendersonia corticalis** E. et Ev. North Am. fungi n. 1377. — Exemplaria Ellisiana (in herb. Saccardiano) sterilia! 4457

Hab. in sarmentis Vitis viniferæ Newfield Amer. bor.

- *28. **Hendersonia Tamaricis** Cooke in Grevillea XIV, p. 5. — Peritheciis laxè gregariis, cuticula elevata tectis, subglobosis, vix papillatis; sporulis ellipticis, utrinque leniter attenuatis, triseptatis, non constrictis, pallide brunneis, $18-20 \approx 7$. 4458

Hab. in ramulis Tamaricis gallicæ, Kew Britanniæ. — *Var. Elæagni* Cooke l. c.: peritheciis minoribus, minus gregariis; sporulis ut in typo. In ramis Elæagni, Kew Britanniæ.

29. **Hendersonia Rubi** West. Sacc. Syll. III, p. 424. — *Forma Loni-* 2316

ceræ Brunaud in Rev. Myc. 1836, pag. 141: sporulis 18-20 \approx 6-8, rectis vel vix curvis, ad septa constrictis. In caulibus emortuis Loniceræ Caprifolii, Saintes Gallie. — *Forma Vitis* Br. l. c.: sporulis 15-18 \approx 8, ad septa constrictis. In sarmentis emortuis Vitis vinifera Saintes Gallie. — *Forma Rubi Idæi* Br. l. c.: sporulis ellipsoideis vel oblongo subclavatis, 18-20 \approx 8, ad septa constrictis. In sarmentis emortuis Rubi Idæi, Saintes Gallie.

- *30. **Hendersonia Staphyleæ** Ell. et Ev. in Journ. of Myc. I, n. 151. — 4459
Peritheciis *Leptosphaeriæ rubroinctæ*, cujus verisimiliter est pycnidium, similibus et ab iis vix distinguendis; sporulis oblongis, obtusis, rectis vel vix curvulis, 3-septatis, obscure brunneis.

Hab. in sarmentis emortuis Staphyleæ trifoliæ in America boreali.

- *31. **Hendersonia Rosæ** Kickx Fl. Myc. Fl. t. I, pag. 389. — 4460
Peritheciis sæpius sparsis, maculis pallidis insidentibus, parvis, nigris, prominentibus, epidermide tectis; sporulis ellipsoideis, triseptatis, brunneis, septis leniter constrictis.

Hab. in ramis emortuis delapsis Rosarum in Belgio.

- *70. **Hendersonia varians** Cooke in Hark. in Grevillea XIII, p. 112. 4461
— Caulicola; peritheciis gregariis, erumpentibus, demum seminudis, depresso-globosis, atris; sporulis ovalibus, uniseptatis dein bivel triseptatis, magnitudine variabilibus, brunneis, subopacis, 12-15 \approx 7,5, nec constrictis.

Hab. in caulibus Sphaeceliæ in California (HARKNESS). — Affinis *H. diversisporæ* sed ab ea distinguenda.

- *71. **Hendersonia Thalictri** Pat. in Rev. Myc. 1886, p. 83. — 4462
Peritheciis minutis, rugosis, epidermide tectis, mycelio repente cinctis, setis 5-6, rigidis, 45-60 μ . longis acutis; sporulis elongatis, rufis, septatis, septis, constrictis, 9-11 \approx 2.

Hab. in caulibus emortuis Thalictri in Sinis (PARNY).

- *88. **Hendersonia Daphnes** Pass. Fung. Gall. novi in Journ. d'Hist. 4463
nat. 1885, n. 4, pag. 16. — Maculis indeterminatis, expallentibus; peritheciis sparsis, nigri punctiformibus, exiguis, initio epidermide velatis; sporulis primo oblongis, integris, hyalinis, tandem triseptatis, loculis duobus intermediis fuscis, terminalibus acutiusculis, hyalinis, 15-20 \approx 5.

Hab. in foliis Daphnes indicæ prope Saintes in Gallia (BRUNAUD).

- *92. **Hendersonia sparsa** Wint. in Hedw. 1885, I. — 4464
Peritheciis sparsis, immersis, depressis vel subglobosis, ostiolo demum late

aperto erumpentibus, atris, membranaceis, 150-180 \approx 90-120; sporulis oblongo-subcylindricis, utrinque rotundatis, rectis, biseptatis. ad septa non vel vix constrictis, pallidissime dilutissimeque nigricantibus, 12-14 \approx 4.

Hab. in spathis aridis Bobartiae spathaceae in monte Tabulari Promont. Bonae Spei (MAC OWAN).

- * 98. **Hendersonia scirpicola** Cooke et Hark. in Grevillea. — Culmicola; peritheciis minutis, punctiformibus, atris, semiimmersis, per- 4465
tuis; sporulis cylindraceutis, utrinque rotundatis, triseptatis, constrictis, fuscis, 20 \approx 5.

Hab. in culmis Scirpi, in California (HARKNESS).

- * 120. **Hendersonia Equiseti** Trail in Scot. Nat. I, p. 76. — Peritheciis tectis, ostiolo minuto, sphaericis, circ. 180 μ diam.; sporulis pallide brunneis, fusiformibus vel cylindraceutis, utrinque obtusis, 12-20 \approx 2-3, triseptatis. 4466

Hab. in caulibus emortuis Equiseti, Aberdeen Scot.

II. *Hyalophragmiae* Sacc.

STAGONOSPORA — Sacc. Syll. III, p. 445.

- * 4. **Stagonospora Sumacis** Pass. in Litt. Brunaud in Rev. Myc. 1886, p. 142. — Maculis hypophyllis, brunneo-rufis; peritheciis sparsis vel subgregariis, prominulis, subglobosis, nigris; sporulis ovoideis, 3-septatis, hyalinis, 15 \approx 5. 4467

Hab. in foliis languescentibus Rhois glabrae, Saintes Galliae.

- * 6. **Stagonospora Ilicis** Grove in litteris. — Peritheciis hypophyllis, sparsis v. subinde binis ternisve aggregatis, nigris, globoso-lenticularibus, epidermide, demum poro parvo pertusa, velatis; sporulis parvis, cylindraceuto-fusoideis, utrinque subacutis, 3-septatis, hyalinis v. in massam collectis, dilutissime olivaceis, 14-17 \approx 2-3. 4468

Hab. in foliis Ilicis Aquifolii, Warley Woods, prope Birmingham, Britanniae. — Sporulae subinde 20 μ longae.

- * 15. **Stagonospora valsoidea** Sacc. et Briard in Rev. Myc. 1885. — Peritheciis globosis, innatis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., epidermide nigrefacta tectis; sporulis numerosis ovato-oblongis, subcylindraceutis, obtusissimis, 3-septato-constrictis, primum hyalinis, guttulato-granulosis, demum fuliginaceis, pellucidis, 16-17 \approx 6-7; basidiis 12-16 \approx 4. 4469

Hab. in ramulis emortuis Platani orientalis, Troyes Galliae (BRIARD).

- * 24. **Stagonospora Pini** Grove New not. Fung. p. 8, n. 52. — Peritheciis epiphyllis, tectis, sparsis, rotundatis, atris; sporulis pallide 4470

luteolis, singulis hyalinis, cylindraceo-fusoideis, utrinque subobtusis, 1-dein 3-septatis, 16-20 \approx 3-4.

Hab. in foliis Pini silvestris, Hibernia Brit. (H. W. LÉTT).

- *25. **Stagonospora Heleocharidis** Trail in Scot. Nat. 1, p. 76. — Peritheciis sparsis, subepidermicis, ostiolo minuto, sphericis, 130-170 mm. diam.; sporulis pallide luteolis, fusiformibus, 30-40 \approx 6-7, 5-7-septatis. 4471

Hab. in foliis et culmis emortuis Heleocharidis palustris, Aberdeen Scot.

- *40. **Stagonospora cirrata** Pat. in Rev. Myc. 1886, pag. 83. — Peritheciis sparsis vel in macula nigra gregariis, atris, 200-300 μ . diam., epidermide tectis, ostiolo albescente; sporulis cylindraceis, fusoideis vel utrinque rotundatis, 1-3-septatis, 12-15 μ . longis, hyalinis, numerosis, in cirrum vermiformem expulsis. 4472

Hab. in foliis emortuis Caricis amphoræ, Japon Sinarum.

52. **Stagonospora neglecta** (West.) Sacc. Syll. III, p. 455. *Var. colorata* Brun. in Rev. Myc. 1886, p. 142. — Peritheciis sparsis, minutis, numerosis, globulosis, epidermide non decolorata nec inflata tectis, dein suborumpentibus, perforatis; sporulis fusiformi-bacillaribus, 3-septatis, subhyalinis vel vix coloratis, 20-22,5 \approx 3. 2485

Hab. in vaginis Phragmitis communis, Chaniers Galliæ. — An species nova?

Sect. 6. Dictyosporæ Sacc.

CAMAROSPORIU Schulz. — Sacc. Syll. III, p. 459.

- *3. **Camarosporium cistinum** Cooke in Grevillea XIV, p. 5. — Gregarium, cortice interiore immersum; peritheciis globosis, atris, ostiolo conico, corticem perforante præditis, subinde in lineas irregulares dispositis; sporulis ellipticis, elongatis, triseptatis, ad septa non constrictis, interdum cellula centrali longitudinaliter divisa, brunneis, 15-18 \approx 5-7. 4473

Hab. in ramulis Cisti laurifolii, Kew Britanniæ.

- *5. **Camarosporium Caraganæ** Karst. in Hedw. 1885, p. 74. — Peritheciis gregariis, rariis sparsis vel concrenentibus, superficialibus, forma variis, sæpe inæqualibus, atris, glabris, 0,3-0,4 mm. diam.; sporulis ellipsoideis, sæpe inæqualibus, 3-5-septatis, accedente septulo 1 (rarissime 2), longitudinali, fuscis, 14-22 \approx 9-12. 4474

Hab. in ramis decorticatis Caraganæ arborescentis, Aboa

Fenniæ — Statum pyenicum *Cucurbitariæ Caraganæ* verisimiliter sistit.

- * 8. **Camarosporium Staphyleæ** Cooke in Grevillea XIV, p. 5. — Sparsum, cortice tectum vel absconditum; peritheciis atris, globoso-depressis, raro leniter cuticulam elevantibus; sporulis ellipticis, triseptatis, una vel duabus cellulis centralibus transverse divisis, non constrictis, pallide brunneis, 18-20 \approx 8. 4475

Hab. in ramulis *Staphyleæ* pennatæ et *S. trifoliatæ*, Kew Britannia.

- * 11. **Camarosporium Spirææ** Cooke in Grevillea XIII, p. 97. — Sparsum; peritheciis paullo amplis, epidermide elevata, tectis, globosis, atris, erumpentibus; sporulis ellipticis, plerumque triseptatis, 1-2 transverse septatis, non constrictis, pallide brunneis, 18 \approx 7,5. 4476

Hab. in ramulis *Spirææ* callosæ et *S. opulifoliæ*, Kew Britannia.

- * 15. **Camarosporium Berberidis** Cooke in Grevillea XIII, p. 97. — Gregarium; peritheciis minutis, subglobosis, cuticula leniter elevata tectis, iis *Phomæ* similibus; sporulis magnitudine variis, primo hyalinis et uniseptatis, ellipticis, non constrictis, demum triseptatis ad septa constrictis, cellula centrali longitudinaliter divisa, pallide brunneis, 22-25 \approx 6-9. 4477

Hab. in ramulis *Berberidis* vulgaris, Kew Britannia.

- * 16. **Camarosporium Limoniæ** Cooke in Grevillea XIII, pag. 97. — Gregarium; peritheciis cuticula elevata, dein fissa, tectis, depressis, brunneis, vix papillatis; sporulis ellipticis, utrinque rotundatis, triseptatis, interdum cellula longitudinaliter divisa, tenuiter ad septa constrictis, castaneis, 22-28 \approx 7-10, primo breviter pedicellatis. 4478

Hab. in ramulis *Citri trifoliatæ*, Kew Britannia.

- * 39. **Camarosporium ellipticum** Cooke et Harkn. in Grevillea XIII, p. 112. — Caulicolum; peritheciis gregariis, subglobosis, erumpentibus, mox semi-nudis, atris, pertusis; sporulis ellipticis, 2-4-septatis, loculo uno alterove longitudinaliter divisis, fuscis, nec constrictis, magnitudine variabilibus, 10-18 \approx 7-7,5. 4479

Hab. in caulibus *Mesembryanthemi*, in California (HARKNESS).

- * 51. **Camarosporium Phragmitis** Brun. in Rev. Myc. 1886, p. 142. — Peritheciis sparsis vel subgregariis, numerosis, globulosis, epidermide parum atrata tectis, ostiolo erumpente; sporulis oblongo-fulgineis, primo 3-septatis, ad septa constrictis, demum loculis uno vel duobus longitudinaliter divisis, 18-22 \approx 7-8. 4480

Hab. in vaginis Phragmitis communis, Sainte Gallæ. —

An *Hendersonia Phragmitis senescens*?

- *52. **Camarosporium metabeticum** Trait. in Scott. Nat. Apr. 1886. 4481
p. 267. — Peritheciis innatis, sparsis, subglobosis, 280 μ . diam., ostiolo brevissimo; sporulis ovoideis, ellipsoideis v. subtrapezoideis, 5-6-septato-muriformibus, medio vix constrictis, 30 \approx 12-13, rarius 20 \approx 12, v. 30 \approx 9, v. 33 \approx 15, brunneo-fuligineis,

Hab. in foliis emortuis *Ammophilæ arundinacææ* prope Aberdeen Scotiae.

- *60. **Camarosporium arenarium** Sacc. Bomm. et Rouss. in Soc. R. 4482
Bot. Belg. 1886, p. 182. — Peritheciis sparsis, subglobosis, $\frac{1}{4}$ mm. diam., epidermide tectis, dein erumpentibus, prominulis; sporulis oblongis, subfusiformibus, olivaceis, 7-septatis, muriformibus, 24-36-10 \approx 14.

Hab. in culmis *Elymi arenariæ*, Ostende Belgio.

DICHOMERA Cooke — Sacc. Syll. III, p. 471.

- *4. **Dichomera æquivoca** Pass. in Erb. Critt. Ital. Ser. II, n. 1391, 4483
— Peritheciis discretis, superficialibus, celluloso-confertis; 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 \approx 5.

Hab. in caulibus siccis *Artemisiæ camphoratae*, pr. Parma. Ital. bor. (PASSERINI).

Sect. 7. Scolecosporæ Sacc.

SEPTORIA Fr. Sacc. Syll. III, p. 474.

- *32. **Septoria cirrosa** Winter in Journ. of Myc. 1885, p. 122. — Ma- 4484
culis sparsis v. confluentibus, subrotundatis v. irregularibus, submarginis, pallide fuscidulis, centro sæpe pallidioribus, area lata, luteola circumdatis, indeterminatis, usque 7 mm. latis; peritheciis amphigenis, laxe gregariis, semiimmersis, depresso globosis, poro late pertusis, atris, 100-130 μ . diam.: sporulis cylindraceo-filiformibus, sæpe flexuosis curvatisve, utrinque acutis, chlorino-hyalinis, plerumque 3-5-septatis, 30-45 \approx 2-2,5, cirrose expulsis.

Hab. ad folia viva *Staphyleæ trifoliæ*, Missouri in America boreali.

- *44. **Septoria capensis** Wint. in Hedw. 1885, I. — Peritheciis in 4485
maculis sordide albidis vel griseis, margine determinato, fusco, per-

lato cinctis, rotundatis vel angulatis, $1\frac{1}{2}$ -2 mm. lat., epiphyllis, immersis, demum erumpentibus, depresso globosis, fuscis, tenuissime membranaceis, 130-150 μ . diam.; sporulis filiformibus, saepe flexuosis curvatisque, pluriseptatis, hyalinis, 30-50 \approx 2-2 $\frac{1}{2}$

Hab. in foliis languescentibus Zizyphi mucronati in Prom. Bon. Spei (MAC OWAN).

- * 45. **Septoria Hydrangeae** Bizz. Fungi Ven. novi vel crit. p. 6. — 4486
Maculis brunneo-ferrugineis, rubro-sanguineo cinctis, irregularibus, dein confluentibus, peritheciis immersis, contextu parenchymatico, brunneo, indistincto; sporulis cylindraceis, rectis v. flexuosis, hyalinis, non septatis, 16-22 \approx 1,5.

Hab. in foliis Hydrangeae hortensis in horto botanico Patavino. — Species valde noxia.

- * 50. **Septoria Rhois** Lév. Voy. dans Ross. mer. et Crim. tab. V, f. 4. 4487
— Hypophylla; maculis fuscis, marginatis; peritheciis sparsis, raris, innatis, nucleo albido faretis, ostioli inconspicuis; sporulis filiformibus, numerosis, 3-4-septatis, pellucidis.

Hab. in foliis Rhois Cotini, Orianda Imperiale Rossiae mer.

60. **Septoria pleosporioides** Sacc. Syll. III, p. 488. *Var.* **Cirsii** Karst. 3199
in Hedw. 1884, p. 4. — Peritheciis basi filamentis brevibus obsitis; sporulis filiformibus, apicibus acutis, obsolete guttulatis, 35-52 \approx 1-2. In caule Cirsii in Fennia.

- * 80. **Septoria Cerasi** Pass. Fung. Gall. novi in Journ. d'Hist. nat. 4488
Bord. 1885, n. 4, p. 16. — Maculis subdiscoideis, atro-sanguineis; peritheciis minutis, immersis, vix ostiolo superne perspicuo foventibus; sporulis filiformibus, integris, hyalinis, cirro brevi ejectis, rectis vel curvulis, 15-30 \approx 1 $\frac{1}{2}$.

Hab. in foliis Pruni Cerasi prope Saintes, Pessines etc. in Gallia (BRUNAUD).

154. **Septoria didyma** Fuck. — Sacc. Syll. III, pag. 501. *Var.* **Santonensis** Pass. in litt. Brunaud in Rev. Myc. 1886, p. 142. — Maculis subangulosis vel irregularibus, brunneis, subinde centro griseo-brunneis, margine subtili, obscuriore; peritheciis minutis, brunneo-nigris; sporulis cylindraceis vel subfusiformibus, medio 1-septatis, subrectis vel curvatis, 22,6-38 \approx 4-5, hyalinis vel subhyalinis, granulosis.

Hab. in foliis Salicis albae, Saintes, Chaniers Galliae.

- * 155i **Septoria blennorioides** (Karst.) Berl. et Vogl. *Phoma blennorioides* Karst. Symb. XV, p. 153. — Peritheciis gregariis, epidermide laciniatim rupta cinctis, forma variis, ut plurimum sub-

sphæroideis, deinde ore lato apertis, atris, 80-150 mm. diam.; sporulis bacillaribus vel filiformibus, rectis, eguttulatis, hyalinis, 7-18 \approx 1-2.

Hab. in pag. sup. foliorum exsiccatorum Salicis pendulæ in agro Mustialensi Fennicæ.

- * 160. **Septoria musiva** Peck in Thirty-fifth Rep. St. Mus. Bot. 1884, 4490
p. 138. — Maculis parvis, numerosis, angularibus, brunneis sæpe areolis pallidioribus, minutis, angularibus variegatis; peritheciis paucis, epiphyllis, depressis, nigris vel nigrescentibus; sporulis cylindraceis subtilibus, curvulis quandoque obscure triseptatis, 30-35, hyalinis.

Hab. in foliis Populi moniliferæ, Albany Amer. bor. — A *Sept. Populi* maculis musivo-variegatis et septatione sporularum diversa.

- * 171. **Septoria serpentaria** Ell. et Mart. Am. Not. 1884, p. 70. — 4491
Maculis castaneo-brunneis, demum obscuris, margine obsolete, 1 mm. diam.; peritheciis atris, subglobosis, innato-epiphyllis, 156-140 μ . d.; sporulis subhyalinis, cylindraceis, curvatis, 82-108 \approx 4.

Hab. in foliis Quercus laurifoliæ, New Florida Amer. bor.

- * 185. **Septoria acuum** Oud. Aanw. IX-X, p. 32. — Peritheciis....; 4492
sporulis brevi-bacilliformibus, hyalinis, continuis, 16-18 \approx 2 $\frac{1}{2}$ -2 $\frac{1}{2}$, vertice non latioribus.

Hab. in acubus Pini silvestris, Wageningen Hollandiæ.

- * 189. **Septoria Colensoi** Cooke in Grevillea XIV, pag. 89. — Macu- 4493
lis suborbicularibus, albidis, margine elevato, purpureo-lineato; peritheciis paucis, semiimmersis, punctiformibus, atris; sporulis rectis flexuosisve, linearibus, multinucleatis, hyalinis, 5 \approx 1.

Hab. in foliis coriaceis plantæ ignotæ (suffruticis?) New Zealand.

- * 190. **Septoria Melastomatis** Pat. in Rev. Myc. 1886, p. 84. — Ma- 4494
culis obscure brunneis, amphigenis; peritheciis hypophyllis, minutis, numerosis, gregariis, nigris, lucidis, conoideis; sporulis elongatis, flexuosis, aculeatis, hyalino-viridulis, 5-6-septatis, 60-90 \approx 5.

Hab. in foliis Melastomatis yunannensis, Tsang-Chan Sinarum (Ab. DELAWAY).

- * 191. **Septoria pachyspora** E. et Hol. in Journ. of Myc. I, p. 6. — 4495
Peritheciis epiphyllis, atris, 100-130 μ . d., in maculis caudidis, tenuibus, subangularibus vel fere pustulis, subrotundis latis, 1-2 mm., margine purpureo-atro cinctis; sporulis arcuato-fusiformibus, 4-6-septatis, 35-60 \approx 3, sæpe luteo-virentibus.

Hab. in foliis Zanthoxyli americani, in America boreali.

- *192. **Septoria Symphoricarpi** E. et E. in Journ. of Myc. 1886, p. 38. 4496
 — Maculis suborbicularibus, parvis, 1-2 mm. diam., albescentibus, margine obscuriore cinctis; peritheciis sublenticularibus, atris, epiphyllis, parvis, (1-5) prominulis; sporulis subcylindraceis, sursum acutis, sæpe rectis, 20-40, sæpe 30-40 \approx 2, tenuissime 1-3-septatis.
Hab. in foliis Symphoricarpi, Valley City, Dakota Amer. bor. (PR. A. B. SEYMOUR).
- *193. **Septoria Anthyllidis** Sacc. in Barbey Fl. Sard. Comp. p. 249. 4497
 — Maculis vagis, arescendo albicantibus immarginatis, subinde folium totum occupantibus; peritheciis punctiformibus, lenticularibus, pertusis, 60-100 μ . diam.; sporulis bacillaribus, leniter curvis, 25-30 \approx 1, obsolete guttulatis, hyalinis.
Hab. in foliorum pag. inf. Anthyllidis vulnerariæ prope Sassari Sardinia.
- *194. **Septoria Mimuli** Winter in Journ. of Myc. 1885, p. 122. — Ma- 4498
 culis sparsis vel gregariis, rotundatis angulatisve, interdum irregularibus et confluentibus, arescendo-albidis, griseo-vel sordide-fusciscentibus, margine lato, distincto, purpureo vel fusco et area indeterminata, fusciscenti cinctis, $\frac{1}{2}$ -3 mm. latis; peritheciis solitariis vel parvis punctiformibus, atris, globosis, 60-90 μ . latis; sporulis cylindricis, utrinque attenuatis, remote septatis, hyalinis, curvatis, 35-45 \approx 2,5.
Hab. ad folia viva Mimuli ringentis, Missouri Amer. bor.
195. **Septoria astragalicola** Peck Torr. Bot. Club. vol. XII, n. 4. — 4499
 Maculis indefinitis vel obsoletis; peritheciis hypophyllis, lenticularibus, 12,5-17,5 mm. lat., atris; sporulis subcylindraceis, constrictis vel leniter curvatis, obtusis, 3-6 \approx 5-6, subinde plurinucleatis.
Hab. in foliis vivis vel languiscentibus Astragali pr. Arizona Amer. bor. (M. E. JONES).
- *201. **Septoria Sycii** Peck in Thirty-fifth Rep. St. Mus. Bot. 1884, 4500
 p. 137. — Maculis parvis, suborbicularibus, sparsis vel raro subconfluentibus, albis vel cinereis, aridis; peritheciis paucis, epiphyllis, nigrescentibus; sporulis filiformibus, rectis vel curvis, 4-6, hyalinis.
Hab. in foliis vivis Sycii angulati, Albany Amer. bor.
- *215. **Septoria semilunaris** Johans. Svamp. fran. Island. p. 173. — 4501
 Peritheciis sparsis, superficialibus, productis, siccitate depressis; sporulis fusoidis, curvulis, acutiusculis, plerumque lunatis, simplicibus, eguttulatis, hyalinis, 10-15 \approx 3-5.

Hab. in pedunculis emortuis Dryadis octopetalæ Eskifjördur Islandiæ orientalis.

- * 216. **Septoria bacillifera** Winter in Journ. of Myc. 1886, p. 122. 4502
 — Maculis parvis, angularibus vel irregularibus, interdum confluentibus, plerumque 1 mm. diam., candidis exaridisque linea atracinctis; peritheciis sparsis, minutissimis, globosis, membranaceis, poro pertusis, atris, 80-90 μ . diam.; sporulis numerosissimis, bacilliformibus, sæpe uno apice parum incrassatis, 1-3-septatis, demum ad septa constrictis, hyalinis, plerumque rectis, 9-23 \approx 3-3,5.

Kab. ad Ambrosiæ trifidæ folia viva, Missouri Amer. bor.

- * 217. **Septoria Salicifoliæ** (Trel.) Berl. et Vogl. *Ascochyta salicifolia* Trelease in Journ. of Myc. I, pag. 14. — Maculis numerosis, rotundatis, circ. 1 mm. diam., intense carneolis; peritheciis amplis, concoloribus; sporulis hyalinis, fusiformibus, sæpius leniter curvatis. 1-septatis, 3-4-guttulatis, 30-50 \approx 2-3,5. 4503

Hab. in foliis Spirææ salicifoliæ, Viscosin Amer. bor. — Primo obtutu *Septoriam ascochytoidem* æmulans, sed ab ea maculis non obscure marginatis, sporulis minus longis difert.

- * 228. **Septoria Eriophori** Oudem. Cont. à la Flore myc. de Nowaja Semlja p. 10, t. I, f. 5. — Peritheciis foliiculis, minutissimis, 70 μ , tenerrimis, fuscis, epidermide tectis, ostiolo denique circumcirca aperturam profundius tincto, prominentibus; sporidiis numerosissimis, hyalinis, bacilliformibus, undulato-curvatis, apice acutis, basi truncatis, 70-75 \approx 3. 4504

Hab. in foliis Eriophori angustifolii, Nowaja Semlja.

- * 251. **Septoria Mentzelæ** Ellis et Kellerm. in Journ. of Myc. 1886, p. 4. — Maculis amphigenis, palidis definitis, $\frac{1}{4}$ - $\frac{1}{2}$ cm. diam.; peritheciis immersis, perspicuis in utraque foliorum pagina, nigris, 100 μ . diam.; sporulis filiformibus, subundulatis, nucleolatis, 40-60 \approx $1\frac{1}{4}$ - $1\frac{1}{2}$, hyalinis. 4505

Hab. in foliis vivis Mentzelæ nudæ, Kansas Amer. bor.

- * 298. **Septoria Penzigii** Cocc. et Mor. Enum. Funghi della provincia di Bologna, Cent. III, p. 23, t. II, f. 28-31. — Peritheciis sparsis v. subappropinquantibus, membranaceo-carbonaceis, in maculis albidis, zona brunnea, inæqualiter lata cinctis insidentibus, tectis dein erumpentibus, globulosis, 80-95 μ . diam.; sporulis linearibus, hyalinis, esseptatis undulatisque, 16-24 \approx $\frac{3}{4}$ -1. 4506

Hab. in foliis Aquilegiæ vulgaris prope Campi di Lu-strola, Bologna Ital. med.

- * 330. **Septoria Eringii** West. V. Not. p. 31 (nec Pass.). — Maculis 4507

amphigenis, irregularibus, angulosis, a nervis foliorum limitatis, albidis, subinde brunneo-cinctis; peritheciis minutis, nigris, sparsis, maculas griseo colorantibus; sporulis in cirrum albidum exeuntibus, cylindræis, rectis, $50 \approx 2,5$.

Hab. in foliis *Eryngii maritimi* in Belgio. — *S. Eryngii* Pass. Syll. III, p. 532, monente cl. Oudemans in litt. diversa est et nominetur *S. eryngicola* Oud. et Sacc.

* 332. **Septoria Pyrolæ** Ell. et Mart. in Journ. of Myc. 1885, p. 100. 4508

— Maculis luteo-albis, hypophyllis sed etiam in pagina superiore foliorum conspicuis, inter nervos, margine brunneo-cinctis; peritheciis atris, sursum perforatis; sporulis filiformibus, $25-35 \approx 0,75$ utrinque obtusis, vix curvulis.

Hab. in foliis vivis *Pyrolæ secundæ*, Red Rock, Lake Superior Amer. bor. (Prof. J. Macoum).

* 437. **Septoria Coprosma** Cooke in Grevillea XIV, p. 129. — Ma- 4509

culis orbicularibus, minutis, pallidis, nigro-limitatis; peritheciis paucis, semiimmersis, atris, pertusis; sporulis cylindræis, flexuosis, obsolete guttulatis, hyalinis, $30 \approx 2$.

Hab. in foliis emortuis, delapsisque *Coprosma*, New Zealand Austral. (COLENZO).

344. **Septoria Ellisii** Berl. et Vogl. *Septoria Gratiolæ* E. et M. in 4510

Jour. of Myc. I, p. 107. — Peritheciis punctiformibus, minutis, emergentibus, sparsis, in parte exsiccata foliorum, sed non in maculis definitis; sporulis filiformibus, nucleolatis, rectis vel subinde curvatis, continuis, $30-40 \approx \frac{3}{4}-1$.

Hab. in foliis languidis *Gratiolæ quadridentatæ*, Florida Amer. bor. (F. R. SCRIBNER). — «An diversa a *S. Gratiolæ* S. et Sp.?».

350. **Septoria acanthina** Sacc. et Magn. Misc. Myc. II, n. 151. — Ma- 4511

culis amphigenis, subcircularibus, brunneis; peritheciis innatis, leucularibus, pertusis, atris, $120-150 \mu$ diam.; sporulis bacillaribus, curvulis, utraque obtusiusculis, $40-50 \approx 2,5-3$, spurie 3-5-septatoguttulatis, hyalinis.

Hab. in foliis *Acanthi mollis*, Millis in Sardinia (MAGNUS). — *Septoria Acanthi* Thüm. sec. descriptionem vere diversa videtur.

* 352. **Septoria Diervillæ** Peck 38 Rep. St. Mus. pag. 98. — Macu- 4512

lis suborbicularibus, albis vel cinereis, margine lato, indefinito, brunneo vel purpureo-brunneo cinctis; peritheciis epiphyllis, minutis nigris; sporulis filiformibus, curvis, flexuosis, exilibus, $25-40 \mu$ longis.

Hab. in foliis vivis vel languidis *Diervillæ trifidæ* in montibus Adirondack Amer. bor.

- *353. **Septoria diervillicola** E. et E. in Journ. of Myc. I, 44 (sub *S.* *Diervillæ*). — Maculis brunneo-atris, 2-3 mm., plerumque margine crasso, inflato, atro-purpureo cinctis; peritheciis hypophyllis, tenuibus, atris, innato-erumpentibus; sporidiis filiformibus, sæpe curvatis, nucleolatis, 25-35 \approx 1-1½, viridibus. 4513

Hab. in foliis vivis *Diervillæ trifidæ*, Magnolia Am. bor. (C. H. CLARKE). — «An a *S. Diervillæ* Peck satis distincta?».

- *356. **Septoria flagellaris** Ell. et Ev. in Bull. Torr. bot. Club. 1883. p. 97. — Maculis orbicularibus, rufo-brunneis, 1-2 mm. diam., definite limitatis, concentrice rugosis, subinde albescentibus, in pagina superiore foliorum; peritheciis in quaque macula solitariis, centrum occupantibus vel 2-3 coalitis, sublenticularibus, 80-120 μ . diam.; sporulis nucleatis vel 4-8-septatis, 35-44 \approx 1,5, uno apice latoribus, atque ad alium gradatim attenuatis. 4514

Hab. in foliis vivis *Calystegiæ sepium*, Newfield Amer. bor. — A *S. Convolvuli* et *S. Sepium* probe distinguenda.

- *360. **Septoria Lubiniæ** Pat. in Rev. Myc. 1886, p. 84. — Peritheciis parvis, macula hypophylla, decolorata insidentibus; sporulis filiformibus, hyalinis, obscure septulatis, 48-60 μ . longis. 4515

Hab. in foliis *Lubiniæ*, Thibet Asiæ (AB. DAVID).

- *374. **Septoria Salviæ-pratensis** Pass. Fung. Gall. novi in Journ. d'Hist. nat. 1885, n. 4, p. 16. — Maculis subrotundis vel angulosis, brunneis, saturatius marginatis; peritheciis numerosis, globoso-lenticularibus, atris; sporulis bacillaribus, integris, hyalinis, 30-32 μ . long. 4516

Hab. in foliis *Salviæ pratensis* prope Breuil-Magné in Gallia (BRUNAUD). — A *Septoria Salviæ* differt sporulis duplo brevioribus.

375. **Septoria Brunellæ** E. et H. in Journ. of Myc. I, p. 6. — Maculis atro-nigris, margine brunneo, subtili limitatis; peritheciis crassis, sparsis in parte superiore macularum, atris, leviter prominentibus, 100-130 μ . diam.; sporulis clavatis, subfuscis, multiseptatis, angustis, 40-75 \approx 1½-2. 4517

Hab. in foliis *Brunellæ vulgaris* in America boreali.

- *404. **Septoria unicolor** Winter in Journ. of Myc. 1885, p. 123. — Maculis angulosis vel rotundatis, olivaceis, plerumque determinatis, rarius indeterminatis, concolore marginatis, usque 5 mm. magnis, sed plerumque minoribus; peritheciis epiphyllis, minutissimis, 4518

sparsis, globosis, tenuissime membranaceis; sporulis filiformibus sæpe flexuosis, hyalinis, non vel vix visibile septatis, 26-32 \approx 1.

Hab. ad folia viva Mulgedii acuminati, Missouri Amer. bor. — A *Septoria Mulgedii* et aliis speciebus in Compositis lectis valde diversa

* 406. **Septoria tenuissima** Winter in Journ. of Myc. 1885, p. 122. 4519

— Maculis minutis, rotundato-angulatis, $\frac{1}{2}$ -1 $\frac{1}{2}$ mm. latis, arecendo-caudidis, linea elevata, fusco-atra circumdatis, area indeterminata, viridi-fusca cinctis; peritheciis sparsis, plerumque epiphyllis, punctiformibus, globosis, atris, poro pertusis, 60-70 μ . diam.; sporulis tenuissime filiformibus, non distincte septatis, sæpe flexuosis, hyalinis, 20-28 μ . longis.

Hab. ad *Bœhmeria cylindrica*, Missouri Amer. bor.

* 407. **Septoria fumosa** Peck in 38 Rep. St. Mus. p. 98. — Maculis 4520

angularibus, vel irregularibus, sæpe confluentibus, fumose-brunneis vel griseo-brunneis, obscure marginatis; peritheciis epiphyllis, 62-75 μ . diam., atris; sporulis filiformibus, 30-50 μ . longis.

Hab. in foliis vivis vel languidis *Solidaginis canadensis*, Albany Amer. bor.

* 408. **Septoria Agrimonie-Eupatorie** Bomm. et Rouss. in Bull. Soc. 4521

Bot. Belg. 1886, pag. 182. — Peritheciis epiphyllis, numerosis, minutis, nigris, macula amphigena, pallide brunnea, orbiculari vel irregulari insidentibus; sporulis filiformibus, leniter flexuosis, 30-54 \approx 2-2,5, hyalinis granulosisque.

Hab. in foliis *Agrimoniae Eupatorie*, Yvoir Belgii.

* 429. **Septoria posoniensis** Bäumler in Hedw. 1885, p. 75. — Pe- 4522

ritheciis in maculis rotundatis seu irregularibus, griseo-viridulis vel cinereis, margine angusto, obscuriore cinctis, epiphyllis, gregariis, minutissimis, immersis, globosis, ostiolo pertuso erumpentibus, tenuissime membranaceis, fuscidulis, 60-90 μ . diam.; sporulis filiformibus, tenuissimis, flexuosis, 20-40 \approx 1, hyalinis.

Hab. in foliis vivis *Chrysosplenii alternifolii* prope Pressburg Hungariæ.

* 422. **Septoria Cephalariæ-alpinæ** Roum. in Rev. Myc. 1885, p. 174. — 4522

Maculis epiphyllis, albescentibus, numerosis, parvis, difformibus, 3-9-aggregatis, sæpius confluentibus, margine purpureo cinctis; peritheciis punctiformibus, nigris, 100-500 μ . diam.; sporulis filiformibus, tortuosis, 50-60 \approx 1-1,5, 5-7-septatis, lutescentibus.

Hab. in foliis languescentibus *Cephalariæ alpinæ*, Rouen Galliæ (Ab. LETENDRE).

- * 423. **Septoria Punicea** Peck in 38 Rep. St. Mus. p. 97. — Maculis 4521
4-8 mm. latis, indefinitis, supra brunneo-nigrescentibus, subtus
brunneis vel rufo-brunneis; peritheciis hypophyllis; sporulis lon-
gis, flexuosis, filiformibus, 100-110 μ . longis, hyalinis.

Hab. in foliis vivis Asteris puniceæ, Caroga Amer. bor.

- * 439. **Septoria consimilis** E. et M. in Journ. of Myc. I, p. 100. — 4525
Maculis brunneis, non definite limitatis, $\frac{1}{2}$ -1 cm. diam.; perithe-
ciis brunneis, subglobosis, innatis, amphigenis, 90-100 μ ., sparsis
in parte superiore macularum, in utraque pagina foliorum conspi-
cuis; sporulis filiformibus, multinucleatis, leviter curvatis, sæpe
utrinque obtusis, 30-45 \approx 2-2 $\frac{1}{2}$, hyalinis.

Hab. in Lactuca culta Genève et Newfield Amer. bor. (AR-
TUR). — Nonnullis notis a *Sept. Lactuce* certe distinguenda.

- * 463. **Septoria cannabina** Peck in Thirty-fifth Rep. St. Mus. Bot. 4526
1884, p. 137. — Maculis suborbicularibus, parvis, cinereis, sæpe
margine rufo-brunneo cinctis; peritheciis minutis, numerosis, epi-
phyllis, centrum maculæ occupantibus, nigrescentibus; sporulis fi-
liformibus, curvis, 20-30, hyalinis.

Hab. in foliis vivis Cannabis sativæ, Cold Spring Ame-
ricæ borealis.

- * 464. **Septoria infuscata** Winter in Journ. of Myc. 1885, p. 122. — 4527
Maculis magnis, rotundatis v. irregularibus, sordide griseis, sæpe
variegatis et subzonatis, area perlata, fusca, indeterminata cinctis,
usque 20 mm. longis, 6 mm. latis; peritheciis sparsis gregariisve,
prominulis, globosis, atris, tenuissime membranaceis, 87-105 μ . d.;
sporulis filiformibus, utrinque rotundatis, sursum perparum increas-
satis, multiseptatis, hyalinis, 50-70 \approx 1,5-2.

Hab. ad folia viva Lepachidis pinnatæ, Missouri in Ame-
rica boreali.

- * 465. **Septoria Oxalidis-japonicæ** Pat. in Rev. Myc. 1886, p. 84. — 4528
Peritheciis minutis, brunneo-nigris, macula rufescente insidentibus;
sporulis bacillaribus, numerosissimis, 30-40 \approx 2, utrinque aculeatis,
incurvatis, (septulatis).

Hab. in foliis Oxalidis japonicæ, Thibet orient. Asiæ (AB.
DAVID).

- * 466. **Septoria Androsaces** Pat. in Rev. Myc. 1886, p. 84. — 4529
Peritheciis minutis, nigris, numerosis, macula nigra, epiphylla insi-
dentibus; sporulis numerosis, filiformibus, hyalinis, 39-45 μ . long.

Hab. in foliis emortuis Androsaces rotundifoliæ, Lan-
kong Yunnan Sinarum (AB. DELAWAY).

- *471. **Septoria Convolvuli** Desm. — Sacc. Syll. III, pag. 536. *Var.* 2909
Soldanellæ Brun. Liste Sphærop. p. 49. — Sporulis filiformi-aci-
 cularibus, rectis, curvis vel tortuosis, 40-50 \approx 0,5-1, parce guttu-
 latis. In foliis Convolvuli Soldanellæ, Saintes Galliæ.
- *472. **Septoria Swertiæ** Pat. in Rev. Myc. 1886, pag. 181. — Ma- 4530
 culis circularibus, epiphyllis, rufis; peritheciis minutis, atris, cen-
 tro macularum congestis; sporulis filiformibus, hyalinis, curvatis,
 20-23 \approx 1, continuis, eguttulatis.
Hab. in foliis Swertiæ, Yunnan Sinarum (AB. DELAVAY).
- *473. **Septoria Boërhaviæ** Pat. in Rev. Myc. 1886, p. 84. — Peri- 4531
 theciis minutis, rotundatis, macula pallida, rufo-brunneo-limitata
 insidentibus, numerosis; sporulis linearibus, obtusis, curvatis, irre-
 gularibus, hyalinis vel viridulis, subinde 2-3-septatis, 41-51 \approx 3-5.
Hab. in foliis Boërhaviæ verticillatæ in Abyssinia.
- *482. **Septoria Dalibardæ** Peck 38 Rep. St. Mus. p. 97. — Maculis 4532
 minutis, albescensibus vel cinereis, rufo-brunneo-marginatis; pe-
 ritheciis minutis, epiphyllis, raris, atris; sporulis filiformibus, sub-
 rectis, 37-50 μ . longis,
Hab. in foliis vivis Dalibardæ repentis, Caroga Amer. bor. 4533
- *489. **Septoria Briosiana** Mor. Giorn. Bot. It. 1885, p. 39. — Pe-
 ritheciis epiphyllis, in maculis parvis, nigrescentibus, oblongis ir-
 regularibusque insidentibus, globuloso-depressis, erumpentibus, 84-
 96 μ . diam.; sporulis tenuissimis, bacillaribus, plus vel minus in-
 curvatis et undulatis, continuis, incoloribus, hyalinis, 9-11 \approx $\frac{1}{2}$ - $\frac{3}{4}$;
 basidiis acuminatis, non guttulatis, hyalinis, 32-40 \approx $1\frac{1}{3}$ -2,
Hab. in foliis Triticis sativi in Italia bor.
- *517. **Septoria nigrificans** Pat. in Rev. Myc. 1886, p. 84. — Macu- 4534
 lis brunneis, epiphyllis, ovoideis, elongatis, in pagina inferiore fo-
 liorum nitide nigro-limitatis; sporulis hyalinis, rectis, filiformibus,
 non septatis nec guttuligeris, 24-30 μ . longis.
Hab. in foliis emortuis Caricis, Thibet Asiæ (AB. DAVID).
- *521. **Septoria Phalaridis** Cocc. et Mor. Enum. Fung. della provin- 4535
 cia di Bologna, Cent. III, pag. 24, t. II, f. 22-25. — Peritheciis
 erumpentibus, membranaceis, brunneis, globulosis, 96-105 μ . diam.,
 in maculis pallide luteis foliorum vaginarumque insidentibus; spo-
 rulis hyalinis, filiformibus, rectis vel leviter undulatis, prope me-
 dium obscure uniseptatis, 20-25 \approx $1\frac{1}{4}$.
Hab. in foliis et vaginis Phalaridis brachystachydis
 prope Monte Paderno, Bologna Ital. med.
- *551. **Septoria alliicola** Bäumler in Hedw. 1885, p. 75. — Perithe- 4536

ciis numerosis, gregariis, sub epidermide nidulantibus, globosis, ostiolo simplici, pertuso erumpentibus, atris, 200-250 μ . diam.; sporulis elongato-cylindræis, flexuosis, fere hyalinis, plerumque uni-septatis, 30-50 \approx 3-5.

Hab. in scapis Allii flavi, Pressburg Hungariæ.

- *570. **Septoria Dentariæ** Peck in 38 Rep. St. Mus. p. 97. — Maculis latis, suborbicularibus, indefinitis, virescentibus; peritheciis minutis, numerosis, vix prominulis, epiphyllis, atris; sporulis filiformibus, subrectis, 20-30 μ . longis. 4597

Hab. in foliis vivis vel languidis Dentariæ diphyllæ in montibus Adirondack Amer. bor.

- *576. **Septoria equisetaria** Karst. in Hedw. 1885, p. 73. — Peritheciis subsparsis, innatis, subsphæroideis, poro pertusis, atris, membranaceis, contextu parenchymatico, fuligineo, minutissimis; sporulis bacillari- vel elongato-fusoideis, rectis vel curvatis, 3-septatis, hyalinis vel luteolo-hyalinis, 20-27 \approx 4. 4598

Hab. in caulibus languidis Equiseti fluviatilis prope Mustiala Femiæ.

PHLEOSPORA Wallr. — Sacc. Syll. III, p. 577.

- *1. **Phleospora achyranthea** Sacc. et Berl. in Rev. Myc. 1885. — Maculis albidis vel ochraceis; peritheciis innatis, matrice parum mutata efformatis, late ostiolatis; sporulis bacillaribus, rectis curvulisve, binucleatis vel spurie 1-2-septatis, 18-24 \approx 3, hyalinis. 4599

Hab. in foliis vivis Achyranthis argenteæ, in Algeria.

RHABDOSPORA Mont. — Sacc. Syll. III, p. 578.

- *4. **Rhabdospora decorticata** Cooke et Hark. in Grevillea XIII, p. 112. — Peritheciis erumpenti-superficialibus, subglobosis, atris, papillatis, levibus; sporulis filiformibus, flexuosis vel curvulis, hyalinis, continuis, 25 μ . longis. 4540

Hab. in ligno Acaciæ decorticato in California (HARKNESS).

- *6. **Rhabdospora scoparia** Sacc. et Br. Miscell. Myc. II, pag. 24. — Peritheciis gregariis, subcutaneo-erumpentibus, globulosis, obsolete et obtuse papillatis, $\frac{1}{6}$ mm. diam., atro-nitidulis; sporulis cylindræis, curvulis, utrinque rotundatis, nubiosis vel 4-guttulatis, hyalinis, 28-36 \approx 6-7. 4541

Hab. in ramulis Sarothamni scoparii, Troyes Galliæ (BRIARD). — Affinis *Rhabd. Cordobensi*.

- *22. **Rhabdospora Fraxini** Pass. in Journ. hist. nat. Bord. 1885, p. 4542

136. Brunaud Liste Sphærops. p. 51. — Maculis stromaticis, nigris, elongatis, irregularibus; peritheciis punctiformibus, sparsis, nigris, duris, subglobulosis vel vix conoideis; sporulis parum curvatis, filiformibus, subinde uno apice parum clavatis, hyalinis, 45-50 \approx 0,5-1.

Hab. in ramis emortuis Fraxini excelsioris, Saintes Galliæ.

- * 50. **Rhabdospora Drabæ** (Fuck.) Berl. et Vogl. *Phoma Drabæ* Fuckel in Heuglin Reisen Nordpol. vol. III, et Oudemans Contr. Flor. Myc. Now. Sem. p. 5, tab. III, fig. 7. — Peritheciis sparsis, subcaulis epidermide nidulantibus, demum liberis, minutis, depressoglobosis, vertice umbonatis, pallidioribus, nigris; sporulis angustissime fusiformibus, curvatis, continuis, hyalinis, 22 \approx 2.

Hab. in caulibus exsiccatis Drabæ in insula Nowaja Semlja.

- * 52. **Rhabdospora Euphorbiæ** Brunaud Liste Sphærops. pag. 52. — Peritheciis sparsis vel gregariis, cortice nidulantibus, tectis, minutis, globulosis, ostiolo obtuso, erumpente; sporulis allantoides, continuis, subinde (raro) utrinque guttulatis, rectis vel parum curvatis, hyalinis, 12-18 \approx 2.

Hab. in caulibus emortuis Euphorbiæ palustris, Saintes Galliæ.

- * 54. **Rhabdospora Betonicæ** Sacc. et Br. in Rev. Myc. 1885. — Peritheciis sparsis, plus v. minus approximatis, subepidermicis, ostiolo prominente, $\frac{1}{7}$ - $\frac{1}{8}$ mm. diam.; sporulis cylindraceo-filiformibus, obtusiusculis, rectis, raro flexuosis, hyalinis, simplicibus vel obscure guttulatis, 20-24 \approx 1-1,5.

Hab. in caulibus siccis Betonicæ officinalis prope Troyes Galliæ.

69. **Rhabdospora verbenicola** Sacc. Syll. III, pag. 590. *Var. major* Brunaud Liste Sphæropsid. pag. 52. — Sporulis 40-50 \approx 1,5. In caulibus emortuis Verbene officinalis, Saintes Galliæ.

- * 77. **Rhabdospora subgrisea** Peck in 38 Rep. St. Mus. pag. 98. — Peritheciis numerosis, punctiformibus, depressis, nigris, epidermide tectis, sæpe in maculis longis, indefinitis, griseo-brunneis; sporulis filiformibus, rectis vel curvulis, 30-62 μ . longis.

Hab. in caulibus emortuis variarum Solidaginum, Albany Amer. bor. (CLINTON).

- * 78. **Rhabdospora dipsacea** Sacc. Bomm. et Rouss. in Bull. Soc. R. Belg. 1886, p. 183. — Peritheciis punctiformibus, $\frac{1}{5}$ - $\frac{1}{4}$ mm. diam., epidermide tectis, mammillatis, nigris, ostiolo brevi, recte epidermidem perforante donatis, laxe gregariis; sporulis hyalinis, cylin-

draceis, curvatis, pluriguttulatis, centro portiuncula evacuata, pseudosepto simili, præditis, 30-32 \approx 3-4.

Hab. in caulibus emortuis *Dipsaci silvestris*, Yvoir Belgii.

- *79. **Rhabdospora Lactuæ** Brun. Liste Sphærops. pag. 52. — Peritheciis primo tectis dein erumpentibus, globulosis, nigris, minutis; sporulis linearibus, rectis vel vix curvulis, continuis, 17-23 \approx 1-2, hyalinis. 4548

Hab. in caulibus emortuis *Lactuæ virosæ*, Saintes Gallie.

- *83. **Rhabdospora Chlorogali** Cooke et Hark. in *Grevillea* XIII, p. 111. 4549
Caulicola, gregaria; peritheciis atris, punctiformibus, subdepressis, cuticulâ hyalinâ tectis, demum erumpentibus, seminudis; sporulis bacillaribus, utrinque obtusis, rectis flexuosisve, hyalinis, obscure nucleatis, 30 \approx 3.

Hab. in caulibus *Chlorogali* in California (HARKNESS).

- *86. **Rhabdospora uncinata** Pass. in litt. Martelli in *Flor. bog.* p. 149. 4550
— Peritheciis sparsis, sphæroideis, atris, subtectis, dein nudatis; sporulis tenuissimis, filiformibus, continuis, hami ad instar curvatis, basidiis longiusculis fultis.

Hab. in Keren Abyssiniæ.

COLLONEMA Grove in *Journ. of Bot.* 1886, p. 136, tab. 266, fig. 5. (Etym. a *colla* gluten et *nema* filum, ob sporulas arcte conglutinatas). — Perithecia subglobosa, subcarbonacea, superficialia; sporulæ longæ, cylindricæ vel fusoidæ, continuæ, hyalinæ. Est *Aposphæria scolecospora*.

1. **Collonema hemisphæricum** (A. S.) Grove in litt. *Aposphæria?* *hemisphæria*. Sacc. Syll. III, p. 170. 1029
2. **Collonema schizothecioides** (Pr.) Grove in litt. *Aposphæria?* *schizothecioides*. Sacc. Syll. III, p. 177. 1060
3. **Collonema papillatum** Grove in *Journ. of Bot.* 1886, pag. 136. — 4551
Peritheciis minutis, gregariis, atris, globosis vel subovatis, basi ligno insculptis, dein liberis, sursum in papillam conicam, pulchram, poro exiguo pertusam, attenuatis, rugosis, 0,8-0,13 mm. diam.; nucleo albo, arcissime conglutinato; cirro longissimo, tenuissimo, filiformi; sporulis fusoides, utrinque longe attenuatis, acutissimis, curvulis, eguttulatis, hyalinis, 18-19 \approx 2½.

Hab. in corticis *Aceris Pseudoplatani* pagina interiori, Sutton Coldfield, prope Birmingham Britannicæ, socio *Graphio penicillioide*. — Sporulæ aquâ diu suffusâ, difficillime tamen, solvuntur.

GELATINOSPORIUM Peck. — Sacc. Syll. III, pag. 596.

- *1.
- Gelatinosporium fulvum**
- Peck in 38 Rep. St. Mus. pag. 97. — 4552

Peritheciis cæspitosis, stipatis, erumpentibus, externe pulverulentis, pallide brunneis, madore apice dehiscentibus et tum massam sporularum albam ostendentibus; sporulis elongatis, curvis, utrinque attenuatis, 75 μ . longis, hyalinis.

Hab. in foliis emortuis Betulæ luteæ, Caroga Amer bor.

SPHÆROGRAPHIUM Sacc. Syll. III, p. 597.

- *1.
- Sphærographium Lantanoidis**
- Peck in 38 Rep. St. Mus. pag. 96. 4553

— Peritheciis minutis, teretibus vel subconoideis, apice truncatis, atris; sporulis subfiliformibus, curvulis vel flexuosis, utrinque leniter acutis, sæpe multinucleatis, 40-62 μ . longis, hyalinis, in globulum album eructatis.

Hab. in caulibus emortuis Viburni lantanoidis in montibus Adirondack Amer. bor.

MICROPERA Lév. — Sacc. Syll. III, p. 604.

- *2.
- Micropera Mali**
- Pass. in Erb. Critt. Ital. Ser. II, n. 1488. — 4554

Peritheciis ut *Micropera Drupaccarum* sed nigris, apice cæsio-pruinosis; sporulis etiam similibus sed brevioribus, 18-32 \approx 1,5.

Hab. in ramis emortuis Pyri Mali prope Parma Ital. bor.

GAMOSPORA Sacc. Misc. Myc. II, p. 9. (Etym. a *gamos* connubium et *spora*). — Perithecia subsupercialia, globulosa, minuta, subastoma, membranacea, setis divergentibus, atris vestita. Sporulae bacillares, pluriseptate, hyalinæ, in sterigmatis communis apice subternæ et cum eo persistentes; basidia bacillaria, brevia, apice sterigmata subterna gerentia. — In grege *Sphæroidearum scolecosporarum* sectionem propriam sistit.

1. **Gamospora eriosporoides** Sacc. et Berl. Misc. Myc. II, pag. 9 et Rev. Myc. 1885. — 4555
 Peritheciis epiphyllis, mycelio tenuissime maculoso, fusco interspersis, punctiformibus, globoso-depressis, setulis cuspidatis, septatis, rectis, 140-150 \approx 4-5, atro-fuligineis parce vestitis; contextu perithecii minuto celluloso, dilute fuligineo, prope basim subprosenchymatico, sporulis bacillaribus, rectis, utrinque obtusiusculis, 50-60 \approx 7, 3-4-septatis, in apice sterigmatis subternis et eo persistenter hærentibus; sterigmatibus subternis in basidio communi et ab eo mox secedentibus; sterigmatibus basidiisque sporulæ tertiam partem æquantibus.

Hab. in foliis coriaceis languidis, Logan Australiæ. — Sporulæ basi, *Eriosporæ* fere ad instar, diu connexæ, tandem vero interdum secedunt.

Stygnatomyces

APPENDICULARIA Peck in 38 Rep. St. Mus. p. 95, tab. 3, fig. 1-4. (Etyrn. ab *appendicula*, ob perithecia basi appendiculigera). — Perithecia delicata, rostrata, pedunculata, basi appendicula prædita. Sporulæ fusoidæ, 1-septatæ, hyalinæ. Genus forte *Labulbeniaceis* propinquum.

1. **Appendicularia entomophila** (Peck) in 38 Rep. St. Mus. p. 96, tab. 3, fig. 1-4. — Peritheciis ovalibus, brunneis, 110-135 \approx 85-100, abrupte conicis, sursum in rostrum longum, pallidum, quandoque acutum, rectum vel curvatum desinentibus, 200-235 \approx 20-23; pedunculo biseptato, sursum leniter incrassato, 30-34 \approx 3-3,5, uno latere et ad basim perithecii appendiculam oblongam, 40 μ . long. gerentibus; sporulis acute fusiformibus, utrinque acutis, medio septatis, 20-45 \approx 3-4, hyalinis, per apicem rostri exeuntibus.

Hab. in *Drosophila nigricorni*, Nyack Rockland Americæ borealis.

Fam. 2. Nectrioideæ.

Sect. 1. Hyalosporæ Sacc.

ZYTHIA Fr. — Sacc. Syll. III, pag. 614.

- * 1. **Zythia Pinastri** Karst in Rev. Myc. 1885, pag. 106. — Peritheciis erumpentibus, subcæspitosis vel sparsis, conoideis vel rotundatis, siccis difformibus, inæqualibus, subinde ostiolo papillato præditis, aurantiacis, glabris, 0,2-0,3 mm. diam.; sporulis elongatis vel fusoidæ-oblongatis, eguttulatis, hyalinis, 2-3,5 \approx 0,5-0,6, madore in cirros aureos expulsis; basidiis filiformibus, circiter 15 \approx 1-1,5.

Hab. ad folia Pini silvestris dejecta in regione Aboensi Fennicæ.

- * 5. **Zythia Galii** Oud. Contr. Flor. Myc. Pays-Bas XI, pag. 34. — Peritheciis hypophyllis, $\frac{1}{10}$ mill. latis, depresso globosis, diu subepidermide latentibus, membranaceis, tenuissimis, coloris fulvis maxime diluti, denique ostiolo simplici apertis; sporulis numerosissimis, continuis, hyalinis, 8-10 \approx 2.

Hab. in foliis Galii Molluginis, Putten Hollandiæ. — Quo latent perithecia, folia facile pellucide punctata crederes.

Sect. 2. Didymosporæ Sacc.

PSEUDODIPLODIA Karst. — Sacc. Syll. III, p. 621.

* 1. **Pseudodiplodia corticis** Grove in Journ. of Bot. 1886, p. 197. — 4559

Late effusa; peritheciis gregariis vel in lineas breves aut maculas contractis, 1-1,4 mm. diam., globulosis vel oblongis, levibus, nitidis, contextu ceraceo mollissimo, olivaceo, minute celluloso, emergentibus, denique semi-superficialibus, siccis atro-fuscis, poro pertusis exiguo qui celeriter dilatatur, subinde phacidiiformiter vel hysteriiformiter laceratis, mox parte superiore prorsus evanidis; nucleo olivaceo, senio (disco) subnigro; sporulis oblongis, subfusiformibus, utrinque obtusis vel basi vel apice acutatis, rarius curvulis, diu continuis, dein senioribus tenuiter uniseptatis, vix constrictis, vix guttulatis, singulis hyaliis, coacervatis dilute olivaceis, 10-14 \approx 3-4; basidiis subramosis, fasciculatis, duplo-triplo longioribus suffultis.

Hab. in pagina interiori corticis vel etiam in ligno Aceris Pseudoplatani, Sutton Coldfield, prope Birmingham Britannia. — A *P. ligniaria* Karst. differt loco natali, sporulis angustioribus, sed imprimis perithecorum magnitudine, quæ 5-7-plo majora. An bis notis satis distincta? Num vere e Nectrioideis sit, in dubio habendum.

RHYNCHOMYCES Sacc. et March. Champ. Copr. p. 28 (Etym. *rhynchos* rostrum et *myces* fungus). — Perithecia subglobosa, in rostrum subulatum abeuntia, molliuscula, læte colorata (ochraceo-rubentia). Sporulæ fusoido-bacillares, acutæ, 1-septatæ, hyalinæ, deorsum in setulam (basidium?) cuspidatam sensim attenuatæ. — Est *Sphaeronæmella* scolecospora.

* 1. **Rhynchomyces Marchalii** Sacc. in March. Champ. Copr. pag. 28. 4560

— Peritheciis gregariis vel subaggregatis, superficialibus, ovoideo-subglobosis, extus hyalino-papillosis, flavicantibus, contextu laxo celluloso, 145-160 \approx 110-125, ostiolo subulato-rostrato, 255-265 \approx 35-45, stricto, glabro, ochraceo, contextu e cellulis vermicularibus, subparallelis conflato; sporulis ad apicem rostri demum expulsis et globulum albidum, ellipsoideum formantibus, fusoido-bacillaribus, rectis vel leniter curvis, apice acutis, deorsum sensim stipitato-setigeris, 65-70 \approx 5, 4-5, 6, 1-septatis, non constrictis, hyalinis, sæpius strato mucoso, diaphano involutis.

Hab. in fimo vulpino in Arduennis. — Septulum adest ob-

soletum in limite inferiore sporulæ versus stipitem seu setulam.
— *Eleutheromycetem longisporum* in mentem revocat, sed asci vere nulli.

Fam. 3. Leptostromaceæ Sacc.

Sect. 1. Hyalosporæ Sacc.

LEPTOTHYRIUM Kunze et Schm. — Sacc. Syll. III, p. 626.

- * 11. **Leptothyrium medium** Cooke in Grevillea XIII, p. 98. — Hy- 4561
pophyllum; peritheciis sparsis, amplis, $\frac{1}{2}$ mm. diam., depressis,
circularibus, atro-brunneis; sporulis angustis, utrinque attenuatis,
12-14 \approx 2.

Hab. in foliis emortuis *Quercus*, Gomshall Britannæ. — *Var.*
castanicola Cooke: l. c. peritheciis duplo minoribus sed fructifica-
tione eadem. In foliis *Castaneæ*, Darenth Britannæ.

- * 22. **Leptothyrium Liriodendri** Cooke in Grevillea XIV, pag. 90. — 4562
Peritheciis in macula exarida, fusca, sparsis, epiphyllis, discifor-
mibus, nitidis, plano-convexis, atris, minutis; sporulis cylindraceis,
curvulis rectisque, tenuibus, hyalinis, 5 \approx 1.

Hab. in foliis *Liriodendri*, Aiken S. Car. Americæ borealis
(RAVENEL).

- * 23. **Leptothyrium Buxi** Pass. in litt. Brun. Liste Sphærops. p. 64. 4563
— Maculis albis vel albidis, semi orbicularibus, marginalibus, utra-
que pagina conspicuis, linea nigra limitatis; peritheciis sparsis,
hypophyllis, punctiformibus, nigris, circularibus, applanatis, pri-
mo tectis; sporulis globulosis, hyalinis, 2,5-4 μ . diam.

Hab. in foliis *Buxi sempervirentis*, Saintes Galliæ.

- * 40. **Leptothyrium microsporum** Sacc. in Rev. Myc. 1886, p. 22. — 4564
Peritheciis epiphyllis, sparsis, applanatis, circulari-subangulosis,
 $\frac{1}{2}$ mm. diam., radiato-contextis, centro pertusis; sporulis allantoi-
deis, perexiguis, 3-4 \approx 1-1,3.

Hab. in foliis languidis *Solani*, Guarapi Bras.

- * 52. **Leptothyrium Panacis** Cooke in Grevillea XIV, p. 129. — Pe- 4565
ritheciis gregariis vel sparsis, punctiformibus, scutiformibus, mem-
branaceis, orbicularibus, atro-fuscis; sporulis minutis, cylindraceis,
rectis vel leniter curvulis, hyalinis, 7 \approx 2.

Hab. in pag. super. foliorum emortuorum *Panacis arborei*
New Zeland.

- * 53. **Leptothyrium Angelæ** Sacc. in Rev. Myc. 1884, tab. I.V, fig. 5 4566
bis. — Peritheciis superficialibus, gregariis, planis, subcircularibus

radiato-contextis margine fimbriatis, $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam.; sporulis fusoidis, minutis, utrinque acutiusculis, 7-8 \approx 1, hyalinis.

Hab. in culmo Bambusæ mitis cult. in Gallia (ANGÈLE ROUGEURE).

- * 54. **Leptothyrium juncinum** Cooke et Harkn. in Grevillea XIII, p. 113. 4567
— Gregarium; peritheciis scutiformibus atris, opacis, planis demum concavis, orbicularibus; sporulis cylindræis, obtusis, continuis, hyalino-olivaceis, basidiis brevissimis suffultis.

Hab. in Junco in California (HARKNESS).

- * 55. **Leptothyrium Pseudoplatani** Pass. in litt. Brun. Liste Sphærops. 4568
p. 54. *Melasmia Perisporium* Pass. Fung. Gall. nov. in Journ. d'Hist. nat., 1885, n. 4, p. 55. — Maculis nullis; peritheciis epiphyllis, subhemisphæricis, apice dein paululum depressis, atris, subsuperficialibus, nunquam confluentibus; sporulis botuliformibus, rectis vel curvulis, 8-12 \approx $1\frac{1}{2}$ -2, hyalinis.

Hab. in foliis emortuis Aceris Pseudoplatani prope Saintes in Gallia (BRUNAUD).

MELASMIA Lév. — Sacc. Syll. III, p. 637.

- * 7. **Melasmia Empetri** Magn. in Bericht. Deut. bot. Gesell. 1886, p. 104. 4569
— Pustulis atris, subcutaneis, bullato-prominulis e peritheciis paucis, confluentibus formatis, supra inæqualiter rimosis; sporulis oblongo-cylindræis, utrinque rotundatis, medio leniter coarctatis, 12-17 \approx 3,5-4,8, intus granulosis, hyalinis; basidiis bacillaribus, simplicibus, sporulâ subquadruplo longioribus, fasciculatis.

Hab. in ramulis vivis junioribus Empetri nigri in insula Wollin Borussiae.

LEPTOSTROMA Fr. — Sacc. Syll. II, p. 639.

- * 1. **Leptostroma Sequoiæ** Cooke et Harkn. in Grevillea XIII, p. 113. 4570
— Gregarium, superficiale, innatum, hysteriiforme, atro-fuscum, nitidum, siccitate centro collapsum; sporulis sublanceolatis, curvatis, continuis, hyalinis, 16 \approx 3.

Hab. in ramulis Sequoiæ in California (HARKNESS).

- * 2. **Leptostroma Punicæ** Pass. in Journ. d'Hist. Bord. p. 136. Brunaud Liste Sphærops. pag. 85. — Peritheciis lineari-oblongis, nigris, gregariis, primo tectis dein epidermide secessa liberis; sporulis fusoidis, 5-7 \approx 1,5, hyalinis; basidiis filiformibus, plus minus longis. 4571

Hab. in ramulis emortuis Punicæ Granati, Saintes Galliae.

LABRELLA Fr. — Sacc. Syll. III, p. 647.

- *3. **Labrella arctica** Fuckel in Heglin Reis. Nordpolarmeer vol. III. 4572
et Oud. Contr. Myc. Now. Seml. p. 5. — Peritheciis discoideis,
punctiformibus, minutis, nigris, orbicularibus sen oblongis, planis;
sporulis cylindraceis, continuis, rectis, utrinque obtusis, hyalinis.
12-14 \approx 4.

Hab. in foliis siccis Potentillæ Fragariastris in insula
Nowaja Semlja.

SACIDIUM Nees. — Sacc. Syll. III, p. 649.

- *1. **Sacidium Polygonati** Ellis New North Am. Fungi, in Am. Nat. 4573
1884, pag. 1264. — Peritheciis sparsis, globosis vel ellipsoideis,
200-230 μ . diam., astomis, contextu subradiato, compacto, celluloso;
sporulis subglobosis vel pressione subangularibus, 5-7 μ . diam.

Hab. in caule putri Polygonati gigantei in Amer. bor.

Sect. 2. Phragmosporæ Sacc.

LEPTOTHYRELLA Sacc. in Rev. Myc. 1885 (Ety. a *Leptothyrio*
cui affinis). — Perithecia *Leptothyrii*, dimidiata, radiato-contexta.
Sporulæ fusoidæ vel oblongæ, 1-septatæ, hyalinæ.

- *1. **Leptothyrella Mougeotiana** Sacc. et Roum. in Rev. Myc. 1885, 4574
tab. LV, fig. 5. — Peritheciis scutatis, superficialibus, $\frac{1}{4}$ mm. d.,
ambitu circularibus fimbriatulis, centro dein irregulariter pertusis,
atris; sporulis fusoidæ, sæpe inæquilateralibus, 1-septatis, non
constrictis, 22-28 \approx 4, hyalinis; basidiis fasciculatis, furcatis, hya-
linis, 20-25 \approx 3.

Hab. in foliis subvivis Pini in Pyrenæis et in Vogesis. — Ut
videtur commixtæ sporulæ allantoidæ, 5-6 \approx 1, hyalinæ.

Fam. 4. Excipulaceæ Sacc.

Sect. 1. Hyalosporæ Sacc.

EXCIPULA Fr. — Sacc. Syll. III, p. 665.

- *5. **Excipula primulicola** Pat. in Rev. Myc. 1886, pag. 84. — Peri- 4575
theeciis superficialibus, sparsis vel confluentibus, 1 mm. diam., ni-
gris, convexis, ostiolo papillato, siccitate collapsa, nucleo albo far-
ctis; sporulis filiformibus, 72-75 \approx 2; basidiis brevibus.

Hab. in caulibus emortuis *Primulæ Delawayi*, Yunnan Tsangchan Sinarum (AR. DELAWAY).

DISCULA — Sacc. Syll. III, pag. 674.

*5. **Discula quercicola** Oud. Contr. Fl. Myc. Pays-Bas. XI, p. 34. 4576

— Peritheciis sparsis, incompletis sub epidermide nidulantibus, hac rupta vero prominentibus; sporulis perithecia replentibus in massa visis disculum nigrum simulantibus elongato-ellipticis, continuis, hyalinis, $9-12 \approx 3\frac{1}{2}$.

Hab. in ramis *Quercus rubra*, Naaldwijk Hollandiæ. — *D. quercinæ* proxima sed sporulis minoribus distincta.

AMEROSPORIUM Speg. — Sacc. Syll. III, p. 680.

*1. **Amerosporium Geranii** Cooke et Harkn. in Grevillea XIII, p. 112. 4577

Gregarium, erumpens, demum subliberatum; peritheciis e globosis cupulatis, pilis nigricantibus, tenuibus, dense vestitis; sporulis curvulis, utrinque attenuatis, continuis, hyalinis, $20 \approx 3-5$.

Hab. in caule *Geranii* in California (HARKNESS).

PROTOSTEGIA Cooke. — Sacc. Syll. III, p. 690.

*1. **Protostegia autumnalis** Sacc. in Rev. Myc. 1886, pag. 6. — Peritheciis disciformibus, ascomatibus *Pseudopezizæ autumnalis* simillimis, atris, erumpentibus; sporulis bacillaribus, $20-22 \approx 1$, re-

ctiuseculis, hyalinis.

Hab. in caulibus *Galiorum*, sociâ *Pseudopezizæ autumnalis* cuius est spermogonium, in Gallia (ANGÈLE ROUMÉGUÈRE).

EPHELIS Fr. — Sacc. Syll. III, p. 691.

*1. **Ephelis borealis** Ellis et Ev. in Journ. of Myc. 1885. — Stromate griseo, extenso, folium ambiente, circiter $\frac{1}{2}$ cm. lato, ei *Epiclōe typhinæ* simili; peritheciis paucis, 2-5 in quoque stromate, innatis, leniter convexis, primo parte superiore stromatis tectis, demum expositis, margine imperfecto, *Pezizam* simulantibus; sporulis acicularibus, sæpe rectis vel subinde medio curvatis, hyalinis vel pallide luteolis, nucleolatis (?), utrinque obtusis, $15-25 \approx \frac{3}{4}$.

Hab. in foliis vivis *Graminum*, Nova Scotia Amer. bor. — An ab *Eph. mexicana* distinguenda?

Genus dubium.

PLEOSPOROPSIS CErst. — Sacc. Syll. III, p. 693.

- * 1. **Pleosporopsis Heteromeles** Cooke et Hark. in Grevillea XIII, p. 111. — Hypophylla; peritheciis gregariis, aurantio-fulvis, globo-
so-depressis, $\frac{1}{2}$ mm. glabris, pulpa pulverulenta flavida; sporulis
globois, subpellucidis, 8 μ . diam. 4580

Hab. in foliis emortuis *Heteromeles* in California (HARK-
NESS).

MELANCONIÆ Berk.

Sect. 1. Hyalosporæ Sacc.

GLÆOSPORIUM Desm. et Mont. — Sacc. Syll. III, p. 699.

*10. **Glæosporium Vanilla** Cooke in Grevillea XV, pag. 18. — *Epi-* 4581
 vel hypophyllum, acervulis gregariis, minutis, punctiformibus, epidermide nigrefacta tectis; conidiis elongato-ellipsoideis, utrinque rotundatis rectis, intus granulosis, 18-25 \times 5-6.

Hab. in foliis emortuis Vanilla, Antioquia Columbiae (C. PATIN).

*25. **Glæosporium Helichrysi** Wint. in Hedw. 1885. — *Acervulis* 4582
 amphigenis, subcutaneis, demum rimose erumpentibus, applanatis, maculas minutas, rotundato-angulatas, atras, nitidas, area indeterminata, lutea, sublata circumdatas, sæpe confluentes, $1\frac{1}{4}$ - $\frac{3}{4}$ mm. latas formantibus; conidiis breve cylindricis, utrinque rotundatis, continuis, hyalinis, 14-20 \times 4-5; basidiis brevibus, subcylindricis, hyalinis suffultis.

Hab. ad folia subviva Helichrysi (petiolati?), Somerset East, Prom. Bon. Spei (MAC-OWAN).

*26. **Glæosporium Toxicodendri** Ell. et Mart. in Journ. of Myc. 1885, 4583
 p. 116. — Maculis amphigenis, albescentibus, parvis, 2 mm. diam., margine lato, obscuro cinctis; acervulis sparsis, paucis, obscure coloratis; conidiis oblongis, 1-septatis, 12-15 \times 5-6.

Hab. in foliis vivis Rhois Toxicodendri, Charles City, Jona Amer. bor. (PROF. J. C. ARTHUR). — «Potius *Marsonia*».

*30. **Glæosporium Morianum** Sacc. in Mori Enum. dei Funghi di Modena Giorn. Bot. Ital. 1886, n. 1, p. 23. — *Acervulis* gregariis, epiphyllis, rarius hypophyllis, punctiformibus, fusciscentibus, 100-120 μ . diam., diu epidermide velatis, centro translucetibus; conidiis oblongo-cylindræis, utrinque rotundatis, rectiusculis, 6-7 \times 1,5, hyalinis; basidiis fasciculatis, filiformibus, subflexuosis, 10-14 \times 1-5, subhyalinis.

Hab. in foliis languidis Medicaginis sativæ, maculas ochraceas efformans in Italia bor. (MORI).

*35. **Glæosporium Berberidis** Cooke in Grevillea XIII, pag. 98. — 4584
 Hypophyllum; acervulis gregariis, numerosis, convexis, maculis

latis, decoloratis, subinde totum folium occupantibus, insidentibus, pallidis; maculis brunneis, margine rufulo cinctis; conidiis ovoideis, hyalinis, $5 \approx 3$.

Hab. in foliis putrescentibus Berberidis asiaticæ, Kew Britannicæ.

- * 41. **Glæosporium fraxineum** Peck in Thirty-fifth Rep. St. Mus. Bot. 4586
1884, p. 137. — Maculis numerosis, parvis, pallide rubris, obscure vel purpureo marginatis, centro albicantibus; acervulis raris; conidiis oblongo-ellipsoideis, $5-6 \approx 4$, sæpe binucleatis, hyalinis.

Hab. in foliis vivis Fraxini pubescentis, Albany Americæ borealis.

- * 61. **Glæosporium stenosporum** Ellis et Kellerm. in Journ. of Myc. 4587
1886, p. 4. — Maculis amphigenis, sordide griseis, rotundis, $\frac{1}{2}$ cm. diam. sæpe confluentibus, margine nigro, elevato cinctis; acervulis punctiformibus, rotundis, fuscis, demum collabescentibus, epiphyllis sed etiam in pagina inferiore foliorum conspicuis, vulgo in centro macularum congestis; conidiis cylindraceis, uniseptatis, hyalinis, $18-20 \approx 2\frac{1}{2}$, curvulis.

Hab. in foliis vivis Populi moniliferæ, Manhattan, Kansas Amer. bor.

- * 70. **Glæosporium fagicolum** Pass. in litt. Brun. in Rev. Myc. 1886, 4588
pag. 206. — Maculis irregularibus, brunneis vel brunneolis, demum siccitate centro albo-cinereis, margine brunneo cinctis; conidiis oblongo-ovoideis, hyalinis, $12,5 \approx 4$.

Hab. in foliis languescentibus Fagi sylvaticæ, Saintes Galliæ. — Conidiis minoribus a *G. Fagi* distinctum.

- * 72. **Glæosporium septorioides** Sacc. Misc. Myc. II, p. 16. tab. XI, 4589
f. 34^b, *Marsonia quercina* Wint. Hedw. 1884, p. 171. — Maculis albidis, subtus ochraceis, atro-cinctis; conidiis bacillari-fusoideis, curvatis, utrinque obtusiusculis, $20 \approx 1,7-2$, hyalinis, semper continuis, etiam addita ope jodii et kalii.

Hab. in foliis Quercus imbricatæ, Missouri Amer. bor. 4590
(C. H. DEMETRIO EX WINTER).

- * 76. **Glæosporium Epilobii** Pass. Fung. Gall. nov. in Jour. d'Hist. nat. Bord. 1885, n. 4, p. 55. — Maculis brunneis, versiformibus; acervulis minutis, subcutaneis; sporulis phomatoideis, biguttulatis, $5 \approx 1\frac{1}{2}$, hyalinis.

Hab. in foliis Epilobii angustifolii in hortis culti prope 4591
Saintes in Gallia (BRUNAUD).

- * 92. **Glæosporium carpogenum** Cooke et Hark. in Grevillea XIII, p. 113.

— Acervulis innato-erumpentibus, pallidis, ore lacerato; conidiis subellipticis vel clavatis, utrinque rotundatis, hyalinis, $18 \approx 6,7$.

Hab. in capsulis *Gossypii* arborei in California (HARKNESS).

- *97. **Glæosporium crassipes** Speg. Amp. Ital. p. 405, Sacc. Fungi 4592
It. 1029. — Maculis magnis, subcircularibus, sæpe totam superficiem baccarum occupantibus et ob epidermidem atque strata cellularum corticalium arescentia colore griseo-fuligineo, margine subatro; acervulis subepidermicis, primo applanatis dein subconicis atque vertice epidermidem perforantibus, plus v. minus dense gregariis, $150-250 \mu$.; conidiis proteiformibus ellipticis vel subavicularibus, quandoque continuis, hyalinis, non vel uniguttulatis, subinde protoplasmate bipartito spurie uniseptatis visis, $20-30 \approx 7-8$, acrogenis in basidiis crassissimis, continuis, rarius 1-2-septulatis, granulosis, strato pulvinate proligero insidentibus, $40-50 \approx 5-6,5$, hyalinis.

Hab. ad baccas *Vitis* viniferæ varietatis *Schiava* in locis humidulis circa Conegliano Ital. bor.

- *112. **Glæosporium Denisoni** Sacc. et Berl. Misc. Myc. II, p. 10. — 4593
Acervulis gregariis, minute pustulatis, epidermide demum vix perforata tectis, intus lutescentibus; conidiis oblongo-cylindraccis, utrinque obtusiusculis, leniter curvis, $6-8 \approx 1-5$, interdum 2-guttulatis, hyalinis; basidiis bacillaribus, simplicibus, $20-24 \approx 1-5$, e basi stromatica, minute cellulosa, fuligineo-ochracea oriundis.

Hab. in epicarpio *Encephalarti* (Macrozamiæ) *Denisoni* in Queenslandia (F. MÜLLER).

- *114. **Glæosporium Glottidii** Ellis et Mart. in Journ. of Myc. 1885, 4594
p. 114. — Maculis margine purpurascenti obscure limitatis; acervulis sparsis, numerosis, siccitate atris, suborbicularibus, 250μ . d.; conidiis forma variis, ovoideis, oblongis et cylindraccis, 1-3-nucleatis, longioribus subinde curvulis, $9-16 \approx 3$; basidiis brevibus, gracilibus, conidiorum breviorum longitudinem æquantibus.

Hab. in fructibus *Glottidii* floridani, Florida Amer. bor. (PROF. F. L. SCRIBNER).

MYXOSPORIUM Link. — Sacc. Syll. III, p. 722.

- *1. **Myxosporium microsporium** Cooke et Hark. in Grevillea XIII, p. 4594
113. — Acervulis laxè gregariis, subcutaneo-erumpentibus, transverse-oblongis, vix 1 mm.; conidiis ovoideis, rectis, hyalinis, $4 \approx 3$.

Hab. in ramis *Piri* in California (HARKNESS).

- * 11. **Myxosporium sanguineum** Fuck. Symb. p. 230. — Acervulis pu- 4595
stulatis, 2 mm. latis, 1 mm. crassis, hemisphæricis, sub epidermi-
dem demum fissa nidulantibus, sanguineis; conidiis in basidiorum
ramosorum apicibus, oblongis, vix curvatis, utriusque obtusis, 20 =
8, simplicibus, hyalinis.

Hab. in ramis emortuis Ulmi campestris prope Hattenhein
in Rhenogovia. — «An huc ducendum *M. Ulmi* Oud.?».

- * 31. **Myxosporium pubescens** (Sacc.) Riess *Achroomyces pubescens* 4596
Riess in Bot. Zeit. 1853, pag. 136, tab. III, fig. 21-23. — Subfro-
tundum, pulvinatum, pallidum, fibris (basidiis?) continuis, in fungo
exsoleto pubescenti-prominulis; conidiis obtusis, rectis, vel parum
curvatis, nucleolis plerumque faretis.

Hab. in ramulis emortuis Tiliæ in Germania. — «Verisimi-
liter a genere *Myxosporio* removendum. An genus *Achroomyces*
reficiendum?».

TRULLULA Sacc. Syll. III, p. 731.

- * 10. **Trullula Junci** Cooke et Hark. in Grevillea. — Acervulis orbi- 4597
cularibus, convexis atris, minutis, erumpentibus; conidiis cylindra-
ceis vel subfusiformibus, nucleatis, continuis hyalinis, e basidiis
brevissimis radiantibus, 20-25 = 4.

Hab. in culmis Junci in California (HARKNESS).

- * 11. **Trullula dothideoides** Sacc. et Berl. Misc. Myc. II, pag. 134, 4598
tab. IX, f. 33. — Acervulis perithecioides, subsparsis, convexis,
erumpentibus, atris, compactis, $\frac{3}{4}$ mm. diam.; basidiis dense fasci-
culatis, furcato-ramosis, prælongis, hyalinis in conidia cylindrica
utrinque truncata, hyalina, 10-12 = 4 dilabentibus.

Hab. in cortice Ulmi campestris, dejecto prope Teolo Eu-
ganeorum Ital. bor.

COLLETOTRICHUM Corda. — Sacc. Syll. III, p. 735.

- * 5. **Colletotrichum Brassicæ** Schulz. et Sacc. in Rev. Myc. 1884. 4599
Schulz. Ill. fung. Slav. n. 187. — Gregarium v. caespitosum, mi-
nutum, atrum; acervulis pulvinatis, subsuperficialibus, setulis fi-
lififormibus, rigidulis, subcontinuis, fuliginis cinctis; conidiis fu-
soideis, curvulis, 19-24 μ . longis, hyalinis; basidiis bacillaribus, fa-
sciculatis, conidium æquantibus.

Hab. in caule putrescente Brassicæ oleraceæ v. caulocarpæ, prope Vinkovec Slavoniæ.

Sect. 2. *Scoleco-allantosporæ* Sacc.**CYLINDROSPORIUM** Ung. — Sacc. Syll. III, p. 737.

- *6. **Cylindrosporium nanum** Cooke in *Grevillea* XIV, pag. 130. — 4600
 Hypophyllum; maculis angulatis, nervulis limitatis, canescentibus, acervulis minutis, albidis; conidiis cylindraceis, rectis, hyalinis, demum emergenti-superficialibus, 8-10 \approx 1.

Hab. in foliis vivis Juglandis, New Zealand (KIRK). — Affine *C. microspermo*.

- *7. **Cylindrosporium microspilum** Sacc. et Wint. Misc. Myc. II, p. 16, 4601
 n. 73. — Maculis epiphyllis, circularibus, perexiguis, albis, tenuiter atro-marginatis; acervulis amphigenis, innatis, punctiformibus, pallidis; conidiis bacillaribus, curvulis, utrinque rotundatis, 50-60 \approx 4, spurie 4-6-septatis, hyalinis.

Hab. in foliis quercinis, Missouri Amer. bor. (DEMETRIO ex WINTER).

- *8. **Cylindrosporium Fraxini** (Ell. et Kell.) Ell. et Ev. in Journ. of 4602
 Myc. 1885, p. 127, *Cercospora Fraxini* Ellis et Kell. in Journ. of Myc. 1885, p. 2. — Sparsum in pagina inferiore foliorum; maculis brunneis, parvis, nervis limitatis, demum confluentibus, $\frac{1}{2}$ -1 cm. latis, margine irregulari cinctis; basidiis dense coalitis, subhyalinis, brevibus, 16-26 μ . longis, laxis, basi vix inflatis; conidiis cylindraceis, subhyalinis vel vix luteolis, 3-4-septatis, granulosis nucleatisque, 70-100 \approx 5-6, non vel vix curvulis, utrinque obtusis.

Hab. in foliis Fraxini viridis, Kansas Amer. borealis (KEL- LERMAN).

- *9. **Cylindrosporium Rubi** Ell. et Morg. in Journ. of Myc. 1885. — 4603
 Maculis amphigenis, brunneo-griseis, sursum definitis, 2-3 cm. d., subinde confluentibus, tomento foliorum absconditis; acervulis epiphyllis, punctiformibus, subcutaneis, demum suberumpentibus, pallidis; conidiis filiformibus, una extremitate acutis, rectiusculis vel vix curvatis, 3-5-sæpe 3-septatis, hyalinis, 40-55 \approx 2,5; basidiis minutis.

Hab. in foliis vivis Rubi strigosi culti in Amer. bor. (DR. J. BROWN).

- *11. **Cylindrosporium circinans** Winter in Journ. of Myc. 1885. — 4604
 Acervulis epiphyllis, magnis, plerumque circinatim v. concentricè stipatis, rarius inordinate gregariis, rotundato-angulatis v. irregularibus, sæpe confluentibus, orbes vel maculas, usque 15 mm. latas, fu-

sco vel sordide-griseas formantibus, margine elevato, obscuriori, varie flexuoso circumdatis, applanatis; conidiis cylindrico-fusiformibus, utrinque acutiusculis, parce septatis, hyalinis, sæpe flexuosis, 20-30 \approx 1,5.

Hab. ad folia viva Sanguinariæ canadensis, Perryville Missouri Amer. bor. (C. H. DEMETRIO).

- * 13. **Cylindrosporium Saponariæ** Roum. in Rev. Myc. 1885, p. 27. 4605

— Maculis hypophyllis, magnis, orbicularibus, sæpe confluentibus, æruginosis, griseolis; basidiis rectis, brevibus, hyalinis, 40-45 \approx 3, 1-2-septatis; conidiis cylindraceis, simplicibus, hyalinis, 10-40 \approx 3-5.

Hab. in foliis vivis Saponariæ officinalis, Fontainebleau Galliæ. — « An *Glaucosporium*? ».

- * 17. **Cylindrosporium Tradescantiæ** Ell. et Kell. in Journ. of Myc. 4606

1886, pag. 81. — Conidiis erumpentibus, in capitulos carneos coalitis, cylindraceo-vermiformibus, una extremitate acutioribus, 65-80 \approx 4-5, 4-6-septatis, primo granulosis vel nucleatis; basidiis indistinctis vel obsoletis,

Hab. in foliis vivis Tradescantiæ Virginicæ, Manhattan, Kansas Amer. bor. (KELLERMAN).

- * 18. **Cylindrosporium Angustifoliæ** Ell. et Kell. in Journ. of Myc. 4607

1886, pag. 81. — Maculis amphigenis, ovoideis, $1\frac{1}{2}$ - $\frac{3}{4}$ \approx $\frac{1}{4}$ cm., brunneis, margine obscuro cinctis; acervulis erumpentibus, olivaceis, primo epidermide tectis; conidiis iis *C. Tradescantiæ* vix distinguendis; basidiis simplicibus, brevibus, 2-3-cellulis concatenate efformatis.

Hab. in foliis vivis Yuccæ angustifoliæ, Manhattan Kansas Amer. bor. (KELLERMAN).

CRYPTOSPORIUM Kunze. — Sacc. Syll. III, p. 741.

- * 11. **Cryptosporium Hippocastani** Cooke in Grevillea XIII, p. 4. — 4608

Stromate corticali, tecto, dein cortice erumpente, longitudinaliter confluyente, pallido; conidiis oblongo-fusoideis, continuis, enucleatis, obtusiusculis, 18-20 \approx 5; basidiis simplicibus vel furcatis, conidiis duplo longioribus.

Hab. in ramulis Æsculi Hippocastani, Kew Britannicæ. — Affine *C. coronato*.

LIBERTELLA Desm. — Sacc. Syll. III, p. 745.

- * 11. **Libertella Gleditschiæ** Winter in Journ. of Myc. 1885. — Acer- 4609

— vulis difformibus, immersis, intus pallidis, linea atra circumdatis;

conidiis in cirros plerunque filiformes, contortos, aurantiacos erumpentibus, filiformi-fusoideis, valde curvatis, tenuissimis, hyalinis, 17-25 \approx 1 μ .

Hab. ad corticem putridum Gleditschiæ Triacanthi, Missouri Amer. bor.

Sect. 3. Phæosporæ Sacc.

MELANCONIUM Liak. — Sacc. Syll. III, p. 749.

* 4. **Melanconium triangulare** E. et Ev. in Journ. of Myc. 1886, p. 38. 4610

— Acervulis epidermide tectis, orbicularibus, parvis, stromate corticali, centro in pustulam conicam elevato; conidiis obtuse triangularibus, minutis, 5-6 μ . diam., brunneis, in massam atram coactis; basidiis gracilibus, 15-1.

Hab. in ramulis emortuis Carpini americanæ, West Chester, Pennsylvania Amer. bor.

* 39. **Melanconium salicinum** Ell. et Ev. in Journ. of Myc. 1886, p. 4611

103. — Acervulis sparsis, tuberculiformibus, vel sæpe sursum truncatis, circiter 1 mm. diam. crassis, epidermide rupta cinctis; conidiis ovato-ellipsoideis, brunneis, 10-12 \approx 6-7.

Hab. in ramulis emortuis Salicis nigræ in America boreali (LANGLOIS). — Differt a *M. bicolor* matrice atque stromate albo nullo.

* 48. **Melanconium gracile** Ell. et Ev. in Journ. of Myc. 1885, p. 44. 4612

— Pustulis prominentibus, seriatim dispositis, in rimis longitudinalibus corticis, stromate minuto, albescente; conidiis oblongo-cylindraceis, pallide brunneis, 15-18 \approx 4-5.

Hab. in ramulis emortuis Caryæ albæ Plainfield Amer. bor. (GEV. F. MESCUTT).

Sect. 4. Didymosporæ Sacc.

MARSONIA Fisch. — Sacc. Syll. III, p. 767.

5. **Marsonia Juglandis** (Lib.) Sacc. Syll. III, p. 768. *Var. Rhois* Sacc. 4028

in Rev. Myc. 1885. — Conidiis 18-21 \approx 3-4, curvato-subrostratis; acervulis conidiorum membranula anhistâ sed reticulata, brunneola (non cellulosa) velatis.

Hab. in foliis Rhois tiphynæ, Feuilleaubeis Galliæ.

* 10. **Marsonia Quercus** Peck in 38 Rep. St. Mus. p. 99. — Macu- 4613

lis angularibus vel suborbicularibus, albescentibus vel rufo-griseis,

definitis; acervulis hypophyllis; conidiis oblongis vel subcylindraceis, rectis vel curvulis, medio leniter constrictis, obscure uniseptatis, 12-15 \approx 2,5-4.

Hab. in foliis vivis *Quercus ilicifoliae*, Karner Amer. bor.

Sect. 5. Phragmosporæ Sacc.

CORYNEUM Nees. — Sacc. Syll. III, p. 774.

*5. **Coryneum cistinum** Cooke in Grevillea XIV, p. 5. — Stomatibus 4614
orbicularibus pulvinatis, convexis, atris cortice interiore insidentibus subinde gregariis, nunc tectis corticeque nidulantibus, nunc expositis; conidiis lanceolatis, utrinque obtusis, triseptatis, ad septa non constrictis, brunneolis, 50-55 \approx 15-18; basidiis hyalinis, circiter conidia longitudine æquantibus, demum evanidis.

Hab. in ramis *Cisti laurifoliae*, Kew Britannicæ.

*6. **Coryneum microstictum** B. et Br. Sacc. Syll. III, pag. 775. *Var.* 4050
Cydoniæ Brun. Champ. nouv. obs. env. Saintes, p. 7. — Conidiis 17-18 \approx 5,5; basidiis 20-22 \approx 1. — In ramis emortuis *Cydoniæ vulgaris*, Saintes Gallicæ. — *Var. Photiniæ* Br. l. c. Conidiis 15 \approx 5. In ramis emortuis *Photiniæ glabræ*, Saintes Gallicæ.

PESTALOZZIA De Not. — Sacc. Syll. III, p. 784.

*2. **Pestalozzia peregrina** Ellis et Mart. in Journ. of Myc. 1885. — 4615
Acervulis hysteriiformibus, primo epidermide velatis, dein partim erumpentibus; conidiis oblongo-ellipsoideis vel obovatis, 4-septatis, utrinque cellula acuta, subconoidea, hyalina, cellulis intermediis brunneis; setis tribus, hyalinis, 7-10 μ . longis; basidiis circiter longitudinem conidorum æquantibus; cellulis coloratis 12-16 \approx 6-7.

Hab. in foliis emortuis *Pruni austriacæ*, Newfield Amer. bor. — A *P. funerea* conidiis minoribus differt.

*11. **Pestalozzia suffocata** E. et E. in Journ. of Myc. 1886, p. 38. 4616
— Erumpens, in cirros atros dejecta; conidiis oblongo-fusiformibus, 22-26 \approx 5-6, cellulis tribus mediis brunneis, apicalibus hyalinis, in basidium longitudinem conidii æquantem attenuatis, apice setis tribus radiantibus, 25-30 μ . longis ornatis.

Hab. in foliis vivis *Rosæ* nonnullis diebus sub poculo vitreo servatis in Amer. bor. (PROF. F. L. SCRIBNER).

*15. **Pestalozzia Sorbi** Pat. in Rev. Myc. 1886, pag. 182. — Acer- 4617
vulis parvis, in macula orbiculari, rufa sparsis; sporulis fusiformibus, 4-septatis, loculis extimis hyalinis, mediis brunneis, 1-guttu-

latis, 16 \approx 6, septis vix constrictis, setis duabus divergentibus apice præditis; basidiis brevibus.

Hab. in foliis Sorbi, Yunnan Sinarum (AB. DELAVAY).

- * 17. **Pestalozzia Montellica** Sacc. et Vogl. in Vogl. Sul Gen. *Pestalozzia* 4618
 p. 9, t. IX, f. 21. — Acervulis epiphyllis, minutis, nigris, dense gregariis, non fœdantibus, macula nulla vel obsoleta; conidiis fusiformibus, 4-septatis, 20-25 \approx 8, loculis intermediis semi-opacis, extimis hyalinis; aristis 3-4, 20-25 \approx 1, una superiore ex vertice loculi oriunda, ceteris ad basim ejusdem nascentibus, horizontali-deflexis; basidiis hyalinis, 25 \approx 1.

Hab. in foliis Quercus in silva Montello, agri Tarvisini, Ital. bor. (SACCARDO).

- * 28. **Pestalozzia affinis** Sacc. et Vogl. in Vogl. Sul Gen. *Pestalozzia* 4619
 p. 10, t. VIII, f. 6. — Acervulis laxè gregariis, minutis dein suberumpentibus, atris, subglobose-oblongis, nigris; conidiis ovoideis, 3-septatis, loculis 2 interioribus fuligineis, extimis hyalinis, 14-20 \approx 6-8; aristis 4-5, filiformibus, divaricato-ramosis, 18-25 μ . longis; basidiis filiformibus, 30-50 \approx 2, rarius usque ad 70 μ . longis.

Hab. in ramis corticatis Vitis et Juglandis pr. Malmedy Gallie.

- * 32. **Pestalozzia abietina** Vogl. Sul Gen. *Pestalozzia* p. 10, t. VIII, 4620
 fig. 3. — Acervulis sparsis, subimmersis, primum tectis demum erumpentibus, aterrimis; conidiis ellipticis, 18-21 \approx 5-7, 3-septatis, ad septa non vel vix constrictis, loculis 2 extimis hyalinis, intermediis fuligineo-atris; aristis 2-3, hyalinis, 14-18 \approx 1; basidiis filiformibus, 18-27 \approx 2.

Hab. in strobilis Abietis excelsæ in silvis Collecchio pr. Parma Ital. bor. (PASSERINI) et prope Massachussetts Americæ borealis.

33. **Pestalozzia versicolor** Speg. Sacc. Syll. III, p. 790, *Var. Cupaniæ* 4134
 Sacc. et Berl. Misc. Myc. II, p. 11. — A typo aliquid differt basidiis paullo longioribus, nempe 15-16 \approx 2; conidiis 30-32 \approx 10-12, partis coloratæ loculis duo sup. fuligineis, inferiore pallidiori; setis subternis, 30-33 \approx 2.

Hab. in foliis Cupaniæ anacardioidis, Logan Australiae.

34. **Pestalozzia funerea** Desm. Sacc. Syll. III, p. 791, *Var. algeriensis* 4135
 Sacc. et Berl. in Rev. Myc. 1886. — A typo acervulis albidis, epidermide flavescente cinctis, nec non matrice differt. A *P. Rosæ* vero conidiis 4-septatis, loculis extremis subhyalinis ceterisque fuscis, certe distinguenda.

Hab. in ramulis emortuis Rosæ sempervirentis in Algeria.

- *35. **Pestalozzia fibricola** Grove in Journ. of Bot. 1886, pag. 198, 4621
tab. 266, fig. 7. — Acervulis parvis, atris, gregariis, fibras elevan-
tibus, quæ demum poro pertusæ; conidiis erumpentibus, elliptico-
fusiformibus, 4-septatis, 17-18 \approx 5; loculis 3 interioribus olivaceis,
sæpe guttulatis, medio saturatori, superiori hyalino, conoideo, elon-
gato, 4-5 μ . alto, setas 1-3 hyalinas, 12-18 μ . longas, patenti-
recurvas gerente; inferiori hyalino, brevi, triangulari; basidiis bre-
vissimis, 3-5 μ . longis.

Hab. inter fibras libri Tiliæ ad usum horti cultorum pa-
rati, Sutton prope Birmingham Brit. — Cum plantis e Germania
sine dubio importata. Loculo medio conid. saturatori at non opaco
a *P. longiseta* distincta. Setæ inter se basi breviter connatæ. Setæ
duæ sæpissime inveniuntur; quum unica, solito est longior. Cum
P. funerea var. *discolori* species comparanda.

- *56. **Pestalozzia primaria** Ell. et Ev. in Journ. of Myc. 1886, p. 103. 4622
— Acervulis hysteriiformibus, atris, erumpenti-superficialibus cir-
citer $\frac{1}{2}$ mm. longis, sparsis; conidiis oblongo-cylindræis, luteo-
brunneis, demum uniseptatis, setis tribus, hyalinis, radiantibus, 6-
9 μ . longis, sursum attenuatis; basidiis filiformibus, 10-12 μ . longis.

Hab. in Scirpo fluviatili emortuo in Amer. bor. (LANGLOIS).
— Conidia primo continua sunt.

- *57. **Pestalozzia tubericola** Pass. Funghi racc. in Abissinia, et Mart. 4623
Fl. Bog. p. 148. — Peritheciis minutis, punctiformibus, innatis, spar-
sis, fusco-atris; conidiis fusiformibus, dilute flavidis, 3-4-septatis,
setis 3-4 plus minus longis, stellatim patentibus, deciduis coronatis.

Hab. in tubere exsiccato forsitan Orchideæ, Keren Abyssiniæ.

- *65. **Pestalozzia phyllostictea** Sacc. Misc. Myc. II, p. 25, tab. XI, f. 32. 4624
— Maculis arescendo expallentibus, variis; acervulis punctiformi-
bus, vix erumpentibus; conidiis oblongis, 4-septatis, 20-22 \approx 7-8,
loculis 3 mediis fuliginæis, extremis minutis, hyalinis, arista curvula
unica, 4-6 μ . longa; stipite filiformi. 15-20 \approx 1,5.

Hab. in foliis Rubi fruticosi in Gallia (ROUMÈGUÈRE). —
Pestalozziæ complæ et *P. monochætæ* subaffinis, a quibus præci-
pue arista brevi, curva et stipite brevi diversa.

69. **Pestalozzia monochætoidea** Sacc. Syll. III, p. 798, var. **affinis** 4170
Sacc. et Briard. in Rev. Myc. 1886. — Acervulis sparsis, puncti-
formibus vel oblongis, brunneis, erumpentibus; sporulis ovato-el-
lipticis, rotundatis vel basi attenuatis, rectis vel leniter curvulis,
3-septatis, loculo superiore conoideo, hyalino, inferiore obtusiore

obscurioreque, intermediis olivaceis, pellucidis, 12-16 \approx 6-7, cilio unico, obliquo, 10 \approx 1; basidiis filiformibus, 10 \approx 1.

Hab. in sarmentis emortuis *Vitis viniferae*, Troyes Galliae (BRIARD).

SEPTOGLÆUM Sacc. Syll. III, p. 801.

*6. **Septoglæum defolians** Harkness Fung. Pac. Coast. pag. 161. — 4625
Acervulis carneis, folia petiolaque occupantibus; conidiis 3-7-septatis, non vel vix curvis vel flexuosis, 68 \approx 4.

Hab. in *Quercu Kelloggii*, Sierra Nevada Californiæ.

*8. **Septoglæum septorioides** Pass. in Erb. Critt. Ital. Ser. II, n. 1492. 4626
— Acervulis epiphyllis, tectis, subglobosis, conidiis bacillaribus, pluriseptatis, ad septa non vel varie constrictis, articulis interdum 1-2-guttulatis et quandoque secedentibus, hyalinis, 22,5-38 \approx 5-7.

Hab. ad frondes languidas, mox arescentes *Pteridis aquilinae* prope Parma Ital. bor.

STEGANOSPORIUM Corda. — Sacc. Syll. III, p. 803.

*1. **Steganosporium cenangioides** Ell. et Roth. in Journ. of Myc. 1885. 4622
— Stromatibus erumpentibus, tuberculiformibus, excavatis et sursum discoidalibus, margine demum expanso et tum *Pezizæ nigrae* simulantibus; conidiis latis, oblongo-fusoideis vel ovato-oblongis, endochromate 5-8 partito, muriformi, 35-40 \approx 10-15, pedicellatis.

Hab. in ramulis emortuis *Abietis balsameae*, West Chester Amer. bor.

*9. **Steganosporium Castaneæ** Lib. in Brunaud Contrit. à la Flore Myc. 4628
de l'Ovest pag. 21. — Acervulis magnis, epidermide velatis, dein erumpentibus, brunneo-olivaceis; conidiis oblongo-ellipsoideis, rectis vel curvatis, sæpius 6-septatis, brunneis, 50-58 \approx 14.

Hab. in ramis emortuis *Castaneæ*, Charente Inférieure Galliae et in Belgio.

*15. **Steganosporium? variabile** Bon. in Hedw. 1876, p. 83. — Cæsputulis parum elevatis; sacculis « (?) » tenuissimis lentiformibus, ostiolo simplici pertusis; strato prolifero mucoso-griseo; basidiis clavatis et stipitatis; conidiis nigris, cylindraceis, utrinque rotundatis, tri-septatis, mucobovolutis.

Hab. in fructibus putrescentibus in Guestphalia.

HYPHOMYCETÆ Martius p. m. p.

Fam. 1. Mucedinæ LINK. em.

Sect. 1. Amerosporæ Sacc.

Subsect. 1. Micronemæ Sacc.

OOSPORA Wall. — Sacc. Syll. IV. p. 11.

- *1. **Oospora umbilicata** (Riv.) Sacc. *Torula umbilicata* Riv. Parass. 3584
p. 439, f. 128. — Cæspitulis albidis; mycelio repente; hyphis fertilibus erectis, conidiorum catenulas apice gerentibus; conidiis ovoideis, umbilicatis, hyalinis, 8-9 \approx 4.

Hab. in fœno putri, Pisa Ital. bor.

- *20. **Oospora inæqualis** (Riv.) Sacc. *Oidium inæquale* Riv. Par. p. 3585
447, f. 136. — Alba; mycelio repente, continuo vel demum septato; hyphis fertilibus, erectis, septatis, ad septa constrictis, in catenulas conidiorum desinentibus; conidiis sphæroideis vel ovoideis, episporio crasso præditis, intus granulosus, 8-12 \approx 8-10, hyalinis.

Hab. in fœno, Pisa Ital. bor. (PAVESI).

- *52. **Oospora rubiginosa** (Riv.) Sacc. *Torula rubiginosa* Rivolta Parass. 3586
p. 438, fig. 126. — Mycelio repente; hyphis fertilibus brevibus, ramosis, ramulis catenulas conidiorum gerentibus; conidiis sphæroideis, rubiginosis, 9 μ . diam., minute verrucosis.

Hab. in fœno, Novara Ital. bor.

- *68. **Oospora penicillioides** (Riv.) Sacc. *Oidium penicilloides* Riv. 3587
Par. p. 448, fig. 137. — Mycelio repente, sordide albido, septato; hyphis fertilibus erectis, ramosis, sursum attenuatis, apice catenulas conidiorum gerentibus; conidiis subovoideis, superne acuminatis, basi truncatis, episporio crasso, obscuriore donatis, granulosus, 7 \approx 4.

Hab. in fœno sanguine «carbonchio» affecto udo, Pisa Italiae borealis.

FUSIDIUM Link. — Sacc. Syll. IV, p. 25.

19. **Fusidium lycotropum** Preuss. — Sacc. Syll. IV, p. 28. Grove in 120
litteris. — Album, tenuiter effusum; conidia ad instar ferri æquini curvata, hyalina, fusiformia, utrinque obtusata, 2-4-guttulata, 18-

30 \approx 3 μ . crass.; in circulum, subinde fere completum, 6-8 μ . diam. circumflexa, guttulis duobus interioribus, fere semper maximis repleta. Conidia concatenata non videre contigit.

MONILIA Pers. — Sacc. Syll. IV, p. 31.

- * 11. **Monilia carbonaria** Cooke in Grevillea XV, pag. 17. — Cæspitulis compactis, pulvinatis, ellipticis vel confluenso difformibus, aurantiacis vel aurantio-rubris, 1-10 mm. diam., hyphis repentibus, intricatis, septatis, dissilentibus, vage ramosis, conidiis globoso-ovalibus, primo concatenatis, dein liberis, levibus, hyalinis rubro-tinctis, 8-12 μ . diam. 3588

Hab. in ligno et ramis, New Zealand Australiae (COLENSO).

CYLINDRIUM Bon. — Sacc. Syll. IV, p. 36.

- * 12. **Cylindrium Luzulæ** (Lib.) Sacc. in Rev. myc. 1885, tab. LV, fig. 8. 3589
Psilonia Luzulæ Lib. Exs. — Acervulis pulvinatis, compactiusculis, candidis; conidiis cylindricis, utrinque truncatulis, catenulatis, hyalinis, 5-6 \approx 1.

Hab. in foliis Luzulæ maximæ in Arduennis (LIBERT) et in Gallia australi (ANG. ROUMEGUÈRE).

OIDIUM Link. — Sacc. Syll. IV, p. 41.

- * 12. **Oidium Verbenæ** Thüm. et Boll. Contr. Fung. lit. austr. III, p. 6. 3590
— Maculas plus minusve orbiculatas vel sinuosas, subparvas, solitarias, nondum confluentes, laxas, in foliorum pagina superiore colore ex subgriseo roseo vel sordide albescente formans: hyphis brevibus, subrectis, septatis, hyalinis; conidiis longe ellipsoideo-subparallelo-grammis, utrinque vix rotundatis, hyalinis, 10-12 \approx 4-7.

Hab. ad folia viva Verbenarum hortorum, Gorizia Ital. bor.

Subsect. 2. Macronemeæ Sacc.

CEPHALOSPORIUM Corda — Sacc. Syll. IV, p. 56.

- * 12. **Cephalosporium (?) tumefaciens** Winter in Hedwigia 1885, p. 259. 3591
— Conidiis 4-10 glomerulos hemisphæricos formantibus, oblongo-subcuneatis, vertice rotundatis, deorsum plus minusve attenuatis, continuis, pallide fuscidulis, interdum parum curvatis, 10-16 \approx 5-7.

Hab. ad plantam frutescentem vel arboream vivam, adhuc indeterminatam folia ramulosque tumefaciens et deformans prope S. Francisco Bras (E. ULÆ).

CORETHROPSIS Corda. — Sacc. Syll. IV, p. 62.

*3. **Corethropsis epimyces** Masee New Microfungi p. 3, fig. 16-18. 3592

— Gregaria; stipitibus albis, simplicibus, conicis, hyphis permultis compositis undique orientibus, præter basim incrassatam septatis, patentibus, nonnullis capitulum conidiorum, subglobosum gerentibus; conidiis hyalinis, oblongo-linearibus, oblique apiculatis.

Hab. in Mycena pura putri socio *Spinello fusigero*, Scarborough Britannicæ.

STERIGMATOCYSTIS Cram. — Sacc. Syll. IV, p. 71.

*7. **Sterigmatocystis dasytricha** Ell. et Ev. in Journ. of Myc. 1886, p. 104. 3593
— Hyphis fertilibus effusis, velutinis, erectis, pallide olivaceo-brunneis, septatis, 250-300 \approx 6-8, apice in capitulum ovoideum vel oblongum dilatatis; sterigmatibus noduloso-ramosis, 20-25 \approx 4, apice obtusis vel sublobatis, ramos brevissimos vel tubercula, irregulariter disposita gerentibus, capitulum oblongum formantibus, 45-60 \approx 20-25; conidiis oblongo-cylindræis, hyalinis, 5-7 \approx 1 $\frac{1}{4}$ -1 $\frac{1}{2}$, solitariis vel 2-3 catenulatis, apice basidiorum insertis.

Hab. in ligno emortuo in America boreali (LANGLOIS). — Primo obtutu colore cæspitulorum *Menisporam glauco-nigram* in mentem revocat.

GLIOCLADIUM Corda — Sacc. Syll. IV, p. 81.

*3. **Gliocladium lignicolum?** Grove in Journ. of Bot. 1886, p. 199. 3594
— Hyphis gregariis vel fasciculatis, erectis, æqualibus, 3-4-septatis, hyalinis, apice penicillatim di-trichotomis; capitulo conidiorum globoso vel obovato, albo; conidiis muco conglutinatis, hyalinis, oblongo-ovoideis, 2-2,5 \approx 1,5.

Hab. in ligni superficie, Barnt Green Britannicæ. — A *G. penicillioide* non nisi conidiis duplo brevioribus et loco natali differt; forsitan potius varietas habendum. Hyphæ ligni succo parte inferiori, quinetiam ramuli colore, brunneo tincta sunt.

SPOROTRICHUM Link. — Sacc. Syll. IV, p. 96.

*37. **Sporotrichum Darutæanum** Roum in Rev. Myc. 1886, p. 92. 3595
— Cæspitulis sparsis, aureis; hyphis sterilibus repentibus; fertilibus raris, erectis, non septatis, tortuosis, fulvis; conidiis acrogenis, hyalinis, parvis, minusculis, 2-2,5 \approx 1-1,5.

Hab. in cortice exsiccata Cinnamomi uida in insula Mauritio.

OVULARIA Sacc. Syll. IV, p. 139.

- *1. **Ovularia Malorum** Cooke in Grevillea XIV, p. 130. — Hypophylla; 3596
maculis effusis, confluentibus, albidis, subfarinosis; hyphis brevibus; conidiis ellipticis, hyalinis, 10-12 \times 4-5.

Hab. in foliis vivis, petiolis, etc. ramorum juniorum Piri, New Zealand Austral. (KIRK).

- *2. **Ovularia Levistici** (Oud.) Berl. et Vogl. *Ramularia Levistici* 3597
Oud. Contr. Fl. Myc. Pays-Bas. XI, pag. 40. — Maculis sparsis, brunneis; cæspitulis amphigenis, vel tantum epiphyllis; hyphis cylindraceis ramosis, sursum multi-articulatis, e cellulis linearibus, 20-25 \times 2-5, utrinque rotundatis, imperfecte conjunctis compositis; conidiis ovoideis, uniseptatis.

Hab. in foliis Levistici officinalis, Putten Hollandiæ.

VERTICILLIUM Nees. — Sacc. Syll. IV, p. 150.

- *12. **Verticillium fimeti** Oud. Aanw. IX-X, p. 47. — Laxe gregarium, 3598
niveum; hyphis fertilibus mycelii repentibus, paucis assurgentibus, filiformibus. $\frac{7}{10}$ - $\frac{8}{10}$ mm. altis, 9-10 μ . crassis, 4-5-septatis, verticillatim ramosis; verticillis primariis tribus, singulis ramis ternis; ramis primis imo secundi ordinis sua vice verticillis ramorum fermatorum enustis; conidiis fere ovalibus, $1\frac{2}{3}$ -2, hyalinis.

Hab. in fimo Cuniculorum in Hollandia.

CLONOSTACHYS Corda — Sacc. Syll. IV, p. 165.

- *1. **Clonostachys spectabilis** (Harz) Sacc. in litt. *Botrytis spectabilis* 3599
Harz Hyph. p. 27, t. V, f. 2. — Cæspitulis densis, subglobosis, 2-3 mm. diam., initio albis dein carneolis; hyphis erectis, filiformibus, remote septatis, a medio sursum iterato-dichotomo-ramosis, ramulis subinde ternis; conidiis secus ramulos longe et dense spicatis, globulosis, 6 μ . diam., e hyalino roseolis.

Hab. in ramis putridis Carpini Betuli, Æsculi in Austria (HARZ) et in pulvere coriario in Hollandia (OUDEMANS). — Cl. Oudemans in litt. monet conidia in hac specie esse stipitellata, qua nota accedit tum ad *Sceptromyces*, tum ad *Botrytis* sectionem *Phymatotrichum*. Hinc in clavi generum (Syll. IV, p. 6) leviter reformandus character quoad conidia subinde stipitata.

Sect. 2. Didymosporæ Sacc.**TRICHOTHECIUM** Link. — Sacc. Syll. IV, p. 179.

- *1. **Trichothecium albido-roseum** (Roum.) Berl. et Vogl. *Trichospor* 3600

rium albido-roseum Roum. in Rev. Myc. 1886, pag. 92. — Cæspitulis pulvinatis, primo distinctis dein confluentibus, primum albis dein roseis, inter corticem et lignum nidulantibus et perithecia *Diplodice Mori* tegentibus; hyphis sterilibus repentibus, ramosis, septatis, intricatis; hyphis fertilibus erectis, non septatis, raris; conidiis ovoideis, non piriformibus, didymis, 16-20 = 10-14.

Hab. in ramis emortuis Mori albæ udis, Carcassone Gallia.

DIDYMARIA Corda — Sacc. Syll. IV, p. 184.

- * 1. **Didymaria Clematidis** Cooke et Harkness in Grevillea XIII, p. 17. ³⁶⁰¹
— Hypophylla; maculis griseo-fuscis, subellipticis; sporis elliptico-elongatis, hyalinis, demum uniseptatis, breviter pedicellatis, 25 = 8.

Hab. in foliis Clematidis in California (HARKNESS).

- * 2. **Didymaria Linariæ** Pass. in Erb. Critt. It. Ser. II, n. 1494. — ³⁶⁰²
Cæspitulis punctiformibus, albis, amphigenis, hyphis simplicibus, subulatis, continuis; conidiis acrogenis, utrinque rotundatis, oblongis, prepe medium septatis, 20 = 7,5.

Hab. ad folia viva mox arescentia Linariæ vulgaris pr. Parma Ital. bor.

Sect. 3. Phragmosporæ Sacc.

DACTYLUM Nees — Sacc. Syll. IV, p. 188.

- * 1. **Dactylum Ulicis** (Cr.) Sacc. in litteris. *Chaetopsis Ulicis* Cr. Fl. ³⁶⁰³
Finist. p. 12. — Hyphis e basi incrassata sursum attenuatis, septatis, medio verticillum basidiorum brevium, furcatorum, ascendentium ferentibus; conidiis cylindræis, truncatis, 8-septatis, hyalinis.

Hab. in foliis adhuc virentibus rami dejecti Ulicis in paludosis, Finistère.

BLASTOTRICHUM Corda — Sacc. Syll. IV, p. 191.

- * 1. **Blastotrichum floccosum** (Harz) Berl. et Vogl. *Acrothecium floccosum* Harz Hyph. p. 37, t. IV, f. 9. — ³⁶⁰⁴
Candidum, demum luteolum, tenue, ramosum, subrepens; hyphis filiformibus, subcontinuis, sporophora brevissima, simplicia vel ramulosa erecta, hinc inde emittentibus; conidiis clavatis, 3-5-septatis, non constrictis, 35 μ . longis.

Hab. in epidermide hominis eczematè laborantis in Germania.

- * 6. **Blastotrichum obtusum** (Bon.) Sacc. *Helv. obtusum* Bon. Handb. 3605
pag. 90, fig. 169. — Cæspitulis albis, subfarinaceis; hyphis simplicibus, septatis, crassis, apice obtusis; conidiis oblongo-cylindraceis, utrinque rotundatis, 3-septatis albis, plerumque pleurogenis, raro binis catenatis.

Hab. in (truncis?) in Guestphalia.

MONACROSPORIUM Oud. — Sacc. Syll. IV, p. 193.

- * 1. **Monacrosporium sarcopodioides** (Harz) Berl. et Vogl. *Acrothecium sarcopodioides* Harz Hyph. p. 36, t. II, f. 4. — Candidum, tenuissimum; hyphis filiformibus, repentibus; sporophoris ascendentibus, continuis, in conidium clavatum, 3-5-septatum, hyalinum, 35-38 μ . longum, longitudine sporophori abeuntibus.

Hab. in lignis quercinis et pinis putridis, Wien Austriae.

RAMULARIA Ung. — Sacc. Syll. IV, p. 196.

- * 112. **Ramularia Charmænerii** Rostrup Island Svamp. in Bot. Tidssk. 3607
1885. — Conidiis obovato-oblongis, 1-septatis, 25 \approx 7-9.

Hab. in foliis *Chamænerii latifolii* in Islandia.

- * 2. **Ramularia Banksiana** (Pass.) Sacc. *Fusidium Banksianum* 3608
Pass. in Erb. Critt. It. Ser. II, n. 1078. — Cæspitulis minutis, erumpentibus, punctiformibus, candidis, aggregatis dein confluentibus; conidiis lanceolatis, integris, hyalinis, endoplasmate opaco, 7,5-12 \approx 2,3-3.

Hab. in foliis emortuis adhuc pendulis *Rosæ Banksiæ*, Parma Ital. bor.

CERCOSPORELLA Sacc. Syll. IV, p. 218.

- * 1. **Cercospora chionea** (E. et Kell.) Sacc. *Cercospora chionea* 3609
E. et Kell. Bull. Torr. Bot. Cl. XI, p. 122. — Amphigena sed sæpius epiphylla; maculis latis, 0,5-1 cm. vel confluenso 3-4 cm. diam., obscure rufo-brunneis, zona brunneo-flavicante, non elevata cinctis; hyphis dense cæspitulosis, subhyalinis, 18-30 \approx 4-5, subinde vero 35-40 μ . longis et leniter undulatis vel sursum curvis; conidiis vermicularibus vel clavato-cylindraceis, 54-90 \approx 4-5, 3-8-septatis.

Hab. in foliis *Cercidis canadensis*, Kansas Amer. bor. — Sistit pruina albam in maculis atris.

Fam. 2. Dematiæ FR.*Sect. 1. Amerosporæ* Sacc.*Subsect. 1. Micronemeæ* Sacc.

CONIOSPORIUM Link. — Sacc. Syll. IV, p. 238.

- * 1. **Coniosporium nitidum** Karst. in Rev. Myc. 1885, p. 107. — Cæ- 3610
spitulis epiphyllis, minutis, punctiformibus, sparsis, hinc inde gregariis vel confluentibus, atris; conidiis ovoideis, nitidis, atris (sub microscopii fuscis,) 30-33 \approx 15-18; hyphis obsolete.

Hab. in foliis languescentibus Viciæ sativæ, Mustiala Fennicæ.

- * 19. **Coniosporium incertum** Karst. in Rev. Myc. 1885, pag. 107. — 3611
Cæspitulis superficialibus, minutis, punctiformibus, sparsis vel subgregariis, atris; conidiis sphaeroideo-ellipsoideis vel subsphaeroideis, hyalinis, coacervatis, dilutissime fuliginis (sub lente) 2-3 \approx 1-2.

Hab. in ligno vetusto Sorbi Aucupariæ, prope Mustiala Fennicæ.

TORULA Pers. — Sacc. Syll. IV, p. 249.

- * 26. **Torula Broussonetiæ** Thüm et Boll. Contr. Fugh. litt. Austr. 3612
III, pag. 4. — Cæspitibus expansis effusisque, tenuibus, laxis, sordide griseo-atris; catenulis brevibus, plerumque subrectis, sed interdum etiam sinuosis; conidiis applanato-globulosis, unicellularibus, pallide fuscis, 3-4 μ . diam., subdiaphanis.

Hab. in ramulis emortuis Broussonetiæ papyriferae in agro Goritiæ.

- * 75. **Torula cyperina** Roum et Pat. in Rev. Myc. 1885, pag. 175, 3613
tab. LV, fig. 12. — Tenuissima, superficialis, elongata, inter nervulos foliorum insidens: mycelio pallide brunneo, radiante; hyphis brevibus, catenulas simplices, erectas conidiorum gerentibus; conidiis brunneis, levibus, applanatis, 4-5 \approx 2.

Hab. in foliis exsiccatis Cyperi longi circa Toulouse Gallicæ.

- * 89. **Torula circinans** A. Roum. et Pat. in Rev. Myc. 1886, p. 156. 3614
— Conidiis globulosis, brunneis, sublevibus, catenulatis; catenulis 15-25 \approx 5; hyphis fertilibus simplicibus, raro bifidis, densissimis, brunneis, circinatis dispositis, demum confluentibus.

Hab. in tegulis marnaceis tecti equilis, Toulouse Gallicæ (A. ROUMEGUÈRE).

Subsect. 2. **Macronemeæ** SACC.**PERICONIA** (Tode?) Bon. — Sacc. Syll. IV, p. 270.

- *16. **Periconia lateralis** Ell. et Ev. in Journ. of Myc. 1886, p. 104. 3615
 — Hyphis fertilibus erectis, subulatis, septatis, opacis, 250-300 \approx 8-10 (ad basim), subrectis, lateraliter, prope apicem, globulum brunneum conidiorum gerentibus; conidiis globosis, luteo-brunneis, echinulatis, 10-12 μ . diam., crasse nucleatis.

Hab. in caulibus herbaceis in Amer. bor. (LANGLOIS).

ARTHRIINIUM Kunze — Sacc. Syll. IV, p. 279.

- *1. **Arthrinium naviculare** Rostrup Swampe fra fumarken pag. 235 3616
 (danice). — Conidiis navicularibus, brunneis 40-50 \approx 11-14.

Hab. in foliis Caricis vaginatae in Dania.

- * **Arthrinium bicorne** Rostrup Swampe fra fumarken p. 235 (danice). 3617
 — Conidiis 25-30 \approx 8-9.

Hab. in foliis et scapis Junci compressi in Dania

VIRGARIA Nees — Sacc. Syll. IV, p. 280.

- *5. **Virgaria deflexa** (Preuss) Sacc. in litt. *Psilonia deflexa* Preuss. 3618
 F. Hoyer. n. 62 et in Sturm. Deut. Cryptogam. Fl. t. 19. — Cæspitulis magnis, tomentosis, atris, opacis; hyphopodio repente; hyphis confertis, atro-fuscis, sursum pallidioribus, erectis, simplicibus vel furcatis, septatis, obtusis; conidiis sparsis, obovatis, pallidis.

Hab. in ligno Pini, Hoyerswerda.

- *6. **Virgaria salebrosa** (Preuss) Sacc. in litteris. *Psilonia salebrosa* 3619
 Preuss F. Hoyer. n. 61. — Cæspitulis effusis, atro-fuscis; hyphis intricatis, ramosis, septatis, salebrosis, intense-fuscis; conidiis ovatis, atro-fuscis, impellucidis; episporio hilo instructo; nucleo firmo.

Hab. in lignis Alni, Hoyerswerda. — « Au *Trichosporium?* »

ZYGOESMUS Corda. — Sacc. Syll. IV, p. 283.

- *1. **Zygoesmus indigoferus** Ell. et Ev. in Journ. of Myc. 1886, p. 149. 3620
 — Stratum laxum, subtile, submembranaceum æruginosum, demum luteo-griseum, margine byssoideum efformans; hyphis fertilibus gracilibus, ramosis, septatis, circiter 3 μ . diam.; conidiis globosis, levibus basidiis brevibus 8-10 \approx 3 insertis.

Kab. in ligno putrescente, West Chester Amer. bor.

TRICHOSPORIUM Fr. — Sacc. Syll. IV, p. 288.

- *1. **Trichosporium contaminans** Oud. Contr. Fl. Myc. Pays-Bas XI, 3621
pag. 49. — Cæspitulis sordide brunneis, vel nigrescentibus subinde
maximi; hyphis prostratis, brunneis, septatis, longissimis, vage ra-
mosis, 3-5 μ . latis; ramis brevibus, lateralibus, apice glomerulum
conidiorum gerentibus; conidiis sphæroideis, continuis, 2-5-4,6
 μ . diam.

Hab. ad cortices arborum ed ad muros «d'une distillerie de
genievre», Schiedam Hollandiæ.

VERTICICLADIUM Preuss. — Sacc. Syll. IV, p. 327.

- *1. **Verticicladium acuum** Oud. Contr. Flor. Myc. Pays-Bas XI, p. 50. 3622
— Hyphis erectis articulatis, deorsum saturate fuscis, sursum di-
lutius tinctis, apice hyalinis, nunc brevioribus, 235 \approx 12, tunc vero
elatoribus, infra apicem verticillis binis ramorum ternorum alter-
nantium conidiferorum onustis; ramis conidiferis piriformibus, sur-
sum valde contractis; conidiis hyalinis, ellipticis, $2\frac{1}{3} \approx 1\frac{1}{5}$

Hab. in foliis *Abietis excelsæ*, socia *Vermicularia acuum*,
Putten Hollandiæ.

CHALARA Corda — Sacc. Syll. IV, p. 333.

- *4. **Chalara Rubi** Sacc. et Briard. in Rev. Myc. 1886. — Hyphis cylin- 3623
draceis, medio subinflatis, 80-100 \approx 8-10, brunneis, 3-4-septatis;
conidiis catenulatis, cylindricis, 4-guttatis, truncatis, 18-20 \approx 5-6.

Hab. in sarmentis *Rubi*, Troyes Galliæ.

- *10. **Chalara paradoxa** (De Seynes) Sacc. in litt. *Sporoschisma pa-* 3624
radoxum De Seynes Rech. Veget. Inf. III, p. 30, t. I, fig. 22-24.
— Mycelio repente, septato, hyalino; hyphis fertilibus erectis, cy-
lindræco-obelavatis, dilute fuligineis, deorsum 3-4-septatis; con-
idiis ex interiore hyphæ catenulatim exilientibus, breve cylindra-
ceis, utrinque obtusis, 9-10 \approx 4-5, hyalinis; hyphis alteris fertili-
bus ex eodem mycelio (teste Seynesio) oriundis, paullo breviori-
bus, non inflatis, subhyalinis, apice conidia oblongo-ovoidea, utrin-
que obtusa, catenulata, 18 \approx 8-9, olivaceo-fuliginea, uniguttata ge-
rentibus.

Hab. in fructibus putrescentibus *Ananassæ* cultæ, Paris Gal-
liæ. — *Ch. brachysporæ* peraffinis species; an forma toruloidea
ex eodem *Chalaræ* mycelio oriatur, nobis mirum videtur.

Sect. 2. Didymosporæ Sacc.*Subsect. 1. Macronemææ* Sacc.**FUSICLADIUM** Bon. — Sacc. Syll. IV, p. 345.

- *9. **Fusicladium fuliginosum** Kalch. et Cooke in Grevillea 1884, p. 24. 3625
— Effusum, fuliginosum, incrustatum; hyphis repentibus, ramosis, ramulis assurgentibus, brevibus, quandoque furcatis; conidiis fusoidis, continuis, hyalinis, 10-12 \approx 4.

Hab. in foliis vivis (ignotis), Natali Africae.**CLADOSPORIUM** Link. — Sacc. Syll. IV, p. 350.

117. **Cladosporium profusum** Rabenh. in Cooke Black Moulds, t. XXV, 1781
fig. 12. — Sacc. Syll. IV, p. 371. — Hyphis fasciculatis, nodulosis, septatis, fuscis, sursum pallidioribus, erectis, 6-7 μ . crassis; conidiis apice hypharum vel nodulis insertis, ovoideis, magnitudine variis, continuis, uni-biseptatis, guttuligeris, 18-24 \approx 5, pallidis.

Hab. in vegetabilibus putridis in Germania. — «Affine, ut videtur, *C. herbarum*».*Sect. 3. Phragmosporæ* Sacc.*Subsect. 1. Micronemææ* Sacc.**CLASTEROSPORIUM** Schw. — Sacc. Syll. IV, p. 382.

55. **Clasterosporium caulicolum** (Corda) Sacc. Syll. IV, p. 393, *Bac-* 1868
trodosmium caulicola Grove in litteris. — Conidia sessilia, erecta, dense compacta, cylindrica, utrinque vix attenuata, 6-12-septata, dilute olivacea, pellucida, 60-100 \approx 8-10.

Subsect. 2. Macronemææ Sacc.**HELMINTHOSPORIUM** Link. — Sacc. Syll. IV, p. 402.

- *6. **Helminthosporium parvum** Grove in Journ. of Bot. 1886, p. 203, 3626
tab. 267, fig. — Parce gregarium, fusco-atrum; hyphis erectis, septatis, dilute fuscis, gracilibus, strictis, basi interdum subincrassatis, 80-90 \approx 3-4, apice in conidium unicum (rarissime bina) evadentibus; conidiis oblongis, tridymis, apice obtuse rotundatis, basi subtruncatis, loculo apicali subquadrato et basali cuneato, luteolis, centrali rotundo, crassiori (inflato), brunneo, 12-15 \approx 5-6.

Hab. in ligno quercino, Sutton Coldfield prope Birmingham Britanniae, cum *H. hormiscioides*. Loculus apicalis subinde brunneus, basalis nunquam. *H. coryneoides* affine.

- * 95. **Helminthosporium Matthiolæ** Thüm. et Boll. Contr. Funghi litt. 3627

Austr. III, p. 4. — Cæspitulis late effusis, sed tenuibus, laxis, atris; hyphis brevibus, erectis, nodulosis, septatis, pallide ochraceo-brunneis, irregulariter crassis; conidiis longe clavatis, basi in pedicellum longum attenuatis, apice rotundatis, sex-duodecim septatis, ad septa non constrictis, sordide fuscis, $40 \approx 8-9$, pedicello pallidiori, $10-14 \mu$. long.

Hab. in siliquis aridis adhuc pendulis Matthiolæ incanæ in Goritia.

- * 96. **Helminthosporium (?) Cerasorum** (Thüm.) Berl. et Vogl. *Septo-* 3628

sporium Cerasorum Thüm. in Œster. Landwirth. Wochenbl. 1884, pag. 259 et Thüm. et Boll. Contr. Funghi litt. Austr. III, p. 5. — Cæspitulis densissime gregariis, plus minus orbiculatim dispositis, griseo-fuscidulis, in macula suborbiculata, rufo-ochracea, applanata, disciformi, sat magna; conidiis magnis, rectis, clavatis vel late fusoides, brevi pedicellatis, basi angustatis, vertice dilatato-rotundatis, quadri-septemseptatis, succineo-luteis, diaphanis, magnitudine varia, $28-48 \approx 10-16$; hyphis brevibus, nodulosis, dilutioribus, 8μ . crassis suffultis.

Hab. in fructibus maturis quos enecat Cerasi dulci, S. Floriam Goritiæ.

- * 97. **Helminthosporium speculiferum** Ell. et Ev. in Journ. of Myc. 3629

1886, pag. 104. — Cæspitulis velutinis, maculis, albis, obscure marginatis; hyphis fertilibus effusis, simplicibus, erectis, brunneis, subundulatis, continuis (vel obscure septatis?) $100 \approx 2,5-3$; conidiis oblanceolatis, pallide brunneis, $5-9$ -septatis, in basim gracilem attenuatis, sursum abruptius contractis, apice truncato, obscuriore, subinde uno vel nonnullis septis constrictis.

Hab. in foliis Sabalis Palmetto, Louisiana Amer. bor. (LANGLOIS).

- * 98. **Helminthosporium armatum** (Lév.) Berl. et Sacc. *Oxysporium* 3630

armatum Lév. in Ann. Sc. Nat. 1863, pag. 300. — Hyphis setiformibus gregariis nigris, erectis, rigidis, simplicibus, continuis; conidiis $2-4$, locularibus, levibus, acumine inani, lauceolatis, septatis, basi adfixis, apice liberis.

Hab. ad ligna vetusta, Villeta Alto del Trigo Novæ Granat. — «Nullis notis ab *Helminthosporiis* nobis differre videtur».

CERCOSPORA Fres. — Sacc. Syll. IV, p. 431.

- * 35. **Cercospora marginalis** Thüm. Boll. Contr. Fung. litt. Austr. III, 3631

p. 5. — Cæspitulis hypophyllis, minutis, nigris, in foliorum margine, arescendo fusco-brunneo, fere regulari; hyphis brevibus, subrectis, ramulosis, septatis, griseo-fuscis; conidiis clavulatis, utrinque angustatis, apice rotundatis, tri-raro quadricellularibus, ad septa minime constrictulis, fuligineo-fuscidulis, 24-7; pedicello brevi.

Hab. ad folia viva Ribis Grossulariæ in Goritia.

* 44. **Cercospora striæformis** Winter in Hedwigia 1886. p. 103. — 3632

Cæspitulis dense stipatis, maculas lineares, fumosas, plerumque hypophyllas, usque 5 mm. longas formantibus, tenuissimis, fuscidulis; hyphis fasciculatis, erectis, parum torulosis, simplicibus, fuscis, pluriseptatis, usque 120 μ longis, 4,5 μ . crassis; conidiis tenuissimis filiformibus, deorsum vix incrassatulis, apicem versus parum attenuatis, plerumque 3-5-septatis, hyalinis, sæpe subcurvatis, usque 45 \approx 1,5.

Hab. in foliis vivis Graminum in insula S. Thomè Af. occ.

* 56. **Cercospora æquatorialis** Winter in Hedwigia 1886, p. 103. — 3633

Cæspitulis hypophyllis, densissime stipatis, maculas submagnas, angulato-irregulares, atro-fuscas, cinereo-pruinosas, usque 7 mm. longas formantibus; hyphis fasciculatis, erectis, interdum subramosis, torulosis, fuscis, remote septatis, usque 100 μ . longis, interdum valde elongatis, 4,5-6 μ . crassis; conidiis filiformi-subclavatis, i. e. e basi parum crassiori sursum longe attenuatis, hyalinis, parce remoteque septatis, usque 70 μ . longis, 1 $\frac{3}{4}$ μ . crassis.

Hab. in foliis vivis Compositarum in insula S. Thomè Africæ occid.

* 60. **Cercospora Meliloti** Oud. Contr. Flor. Myc. Pays-Bas, XI, p. 51. 3634

Depazea Meliloti Sacc. Syll. III, pag. 63. — Maculis albidis, orbicularibus, ovoideis vel oblongis, 2-4 mm. diam., hyphis fertilibus e pseudostromate parenchymatico, subcutaneo, sphæroideo, atro orientibus, epidermidem fasciculatim perforantibus, brunneolis, septatis, 20-69 \approx 3-4, plus minusve flexuosis; conidiis bacillaribus, vel obclavatis, uni-pluriseptatis, 23-65 \approx 2-3, hyalinis.

Hab. in foliis Meliloti officinalis prope Nymèque Hollandiæ.

ACROTHECIUM Preuss. — Sacc. Syll. IV, pag. 483.

* 1. **Acrothecium xylogenum** Grove in Journ. of Bot. 1886, p. 203, 3635

tab. 267, fig. 2. — Hyphis non maculiculis, erectis, strictis vel curvulis, æqualibus, infra fuscis, sursum pallidioribus, apice fere hyalinis, 120-250 μ . altis, coronam 6-8 conidiorum gerentibus;

conidiis cylindricis, apice rotundatis, basi acutatis, 4-guttulatis, denique tenuiter 3-septatis, hyalinis, 14-17 \approx 3.

Hab. in ligno putri, Barnt Green Reservoir Britannia. — *A. caulium* affine at conidiis semper hyalinis, 3-septatis distinctum. Septa maturitate tantum visibilia.

SPORENDONEMA Desm. em. Oudem Eeen voorb. end. spor. Hyph. p. 115. (Etym. *spora*, *endon* intus et *nema* filum). — Hyphæ albæ, steriles repentes, septatæ, ramosæ; fertiles assurgentes. Conidia in interiore hypharum generata et catenulatim exsilia, hyalina dein fusca. — *Sporendonema Casei* Desm. ad *Oosporam* spectat.

1. **Sporendonema terrestre** Oud. Eeen. voorb. end. spor. Hyph. in 3636
Versl. Acad. Amster. 1885, p. 115 (cum icone). — Mycelio in terra humosa repente, albo, articulato, ramoso; hyphis fertilibus erectis, ramosis, continuis; conidiis endogenis, a se invicem remotis, ex hypharum fertilium protoplasmate ortis, primitus hyalinis, utrinque planis, postremo fuscis, utrinque rotundatis, manicatis, i. e. tubulo membranaceo, brevi, achromo ex hypharum interstitiis vacuis circumcissione orto ornatis, 7 \approx 2 $\frac{1}{3}$, absque appendiculis maniciformibus.

Hab. in calidariis in pulvere coriario, Amsterdam Hollandiæ.

Sect. 1. Dictyosporæ Sacc.

Subsect. 1. Micronemæ Sacc.

SPORODESMIUM Link. — Sacc. Syll. IV, p. 497.

- * **Sporodesmium inquinans** E. et E. in Journ. of Myc. 1886, p. 38. — 3637
Cæspitulis densis, purpureo-nigris, pulverulentis, iis *Torula herbarum* similibus; conidiis subglobosis, rufescentibus, opacis, 12-25 μ . diam., pedicellatis; pedicellis (hyphis) diametrum conidiorum æquantibus, mox evanidis.

Hab. in superficie inferiore asseris quercini, Plaquemines Amer. bor. (REV. A. B. LANGLOIS). — Affine *S. leprarium*, sed magis pulverulentum et conidiis minoribus.

- * 2. **Sporodesmium helicoides** E. et Ev. in Journ. of Myc. 1886, p. 38. 3638
— Compactum, atrum, crustaceum; cæspitulis 2-3 cm. longis, circiter, 1 cm. latis, e conidiis cylindræis, obscure coloratis, multi-septatis, 40-6 \approx 6-8, nonnullis rectis, sed plerumque incurvatis, He-

licomyceli similibus, loculis, uno vel amplius, subinde septulo longitudinali divisus, efformatis.

Hab. in superficie inferiore asseris quercini, Plaquemines Amer. bor. (REV. A. B. LANGLOIS). — Affine *S. larvato*. A *S. helicosporo* distinctum.

Subsect. 2. Macronemæe SACC.

MACROSPORIUM Fr. — Sacc. Syll. IV, p. 523.

* 7. **Macrosporium Valerianellæ** Roum. in Rev. Myc. 1886, p. 93. — 3639

Hyphis fasciculatis, simplicibus, septatis, 35-45 = 4-7, claviformibus; conidiis sarciniformibus, multiseptatis, episporio nigrescente donatis, 12-18 = 10-15.

Hab. in caulibus exsiccatis Valerianellæ discoideæ, Rouen Galliæ, socia *Phoma herbarum* (AB. LETENDRE).

* 17. **Macrosporium Readeri** Winter in Rev. Myc. 1886, p. 212. — 3640

Cæspitibus, effusis substratum longe lateque obducentibus, aterrimis, fasciculis hypharum plus minusve convergentium, minutis, discretis constitutis, hyphis erectis, simplicibus, longissimis, rigidis, valde flexuosis torulosisque, dense septatis, fuscis, 300-320 = 9-10,5; conidiis clavatis, sursum in caudam filiformi-cylindricam, diluatiorem attenuatis, septis transversalibus 10-14, septis longitudinalibus 2 aut pluribus in cellulis latioribus præditis, toruloso-constrictis, fuscis, 110-140 = 19-20.

Hab. ad caules aridos Cynaræ Scolymi prope Melbourne Australiæ (READER). — Ab omnibus affinibus hyphis elongatis, validis, sporidiorum magnitudine formaque diversum.

DACTYLOSPORIUM Harz. — Sacc. Syll. IV, p. 545.

* 1. **Dactylosporium brevipes** Grove in Journ. of Bot. 1886, p. 204, 3641

tab. 267, fig. 7. — Gregarium atrum; hyphis erectis, brevibus, flexuosis, fuscis, sursum pallidioribus, dense septatis, subtorulosis (cellulis subquadratis), simplicibus vel apicem versus furcatis, 50-70 = 5, apice capitulum aterrimum, compactum, 5-8 conidiorum gerentibus; conidiis obovatis, saturate fuscis, fere opacis, 20-22 = 10-13, angulate cellulosis, septo unico longitudinali, reliquis obliquis vel radiantibus.

Hab. in ligno Aceris Pseudoplatani, Sutton Coldfield prope Birmingham, Britanniæ. — *D. macropodi* peraffine et quasi varietas, at satis diversum videtur.

ALTERNARIA Nees — Sacc. Syll. IV, p. 545.

- *1. **Alternaria Cucurbitæ** Let. in Roum. in Rev. Myc. 1886, p. 93. 3642
 — Hyphis brevibus, approximatis, rectis, subsimplicibus, brunneis; conidiis lageniformibus, olivaceis, magnitudine variis, sæpius, 60-68 \approx 8-9.

Hab. in maculis aridis Cucurbitæ Melonis var. cultæ, Rouen Galliæ (AB. LETENDRE).

- *2. **Alternaria Malvæ** Roum. et Let. in Rev. Myc. 1885, p. 177. — 3643
 Hyphis aggregatis, rectis, brevibus, non septatis, fuliginis sæpius ramosis; conidiis superpositis, forma variis, subrotundis, sæpius cuneiformibus, brunneis, 33-51 \approx 9-14, transverse pluriseptatis.

Hab. in maculis aridis foliorum Malvæ crispæ a *Puccinia Malvacearum* vexatorum, Seine-Inférieure Galliæ.

Sect. 6. Helicosporæ Sacc.

HELICOSPORIUM Nees — Sacc. Syll. IV, pag. 557.

- *1. **Helicosporium albidum** Grove in Journ. of Bot. 1886, pag. 204, 3644
 tab. 267, fig. 6. — Hyphis erectis, septatis, fere hyalinis, primo simplicibus, dein infra ramosis, 200-300 μ . alt., 2 $\frac{1}{2}$ -3 μ . crass., supra æque ac ramis longis, adscendentibus, sterilibus et flagelliformibus; conidiis lateralibus, substipitatis, hyalinis, pluriguttulatis, 2-2 $\frac{1}{2}$ μ . crass., basi attenuatis, apice obtuse rotundatis, in circulum 15-20 μ . diam. dense spiraliter convolutis; spiris plerumque quaternis.

Hab. in ramis tenuibus Rubi fruticosi, Middleton prope Birmingham Britannicæ. — Cl. Grove non pro certissimo habet hunc non esse statum abnormem, sed cui speciei subjunget, dijudicare nescit. Fungillus maculas albas velutinas efformat.

Fam. 3. Stilbæ FR.

Ser. 1. Hyalostilbæ Sacc.

Sect. 1. Amerosporæ Sacc.

STILBUM Tode — Sacc. Syll. IV, p. 564.

- *19. **Stilbum macrocarpum** Ell. et Ev. in Journ. of Myc. 1886, p. 103. 3645
 Stipitibus albis, cylindraceis vel laxe floccoso-fibrillosis, $\frac{1}{2}$ mm. altis, circiter 75 μ . crassis; capitulo subgloboso, atro, 100-125 μ .

diam.; conidiis oblongis, granulosis, nucleatisque, 12-20 \approx 6-7, subcatenulatis, muco obvolutis, in capitulum arcte congestis.

Hab. in ligno putri in America boreali (LANGLOIS). — A *S. parvulo* nisi capitulo atro distinguendum.

Sect. 2. Phragmosporæ Sacc.

CLAVULARIA Karst. Symb. ad Myc. Fenn. IX, p. 67 (Ety. a *Clavula*). Stipites teretes, ex hyphis tenuissimis, longitudinalibus, coalitis constantes, superne clavato-conidiophori. Conidia fusioidea vel teretia, simplicia, eguttulata, hyalina. «Genus *Ciliciopodio* affine, an ab eo satis distinctum?»

- * 1. **Clavularia fusispora** Karst. Symb. ad Myc. Fenn. IV, p. 67. — 3646
Sparsa vel gregaria, obovato-clavata, pallida seu albida, circiter 1 mm. alta; strato conidorum ceraceo, siccitate subcollabente; conidiis fusioideis, rectis, concatenatis, 6-9 \approx 2-3.

Hab. ad lignum induratum populinum prope Mustiala Fenniae. Primo obtutu pro specie *Pistillariæ* vel *Calocercæ* facile sumitur.

- * 2. **Clavularia stenospora** Karst. Symb. ad Myc. Fenn. IX, pag. 67. 3647
— Stipitibus oblongato-clavatis, breviter stipitatis, albidis; conidiis cylindraceis, rectis, hyalinis, 4,5-6 \approx 1-1,5.

Hab. ad lignum sectum Alni incanæ prope pagum Kytö in paroecia Tammela Fenniae.

ARTHROSPORIUM Sacc. Syll. IV, p. 598.

- * 1. **Arthrosporium parasiticum** Winter in Hedwigia 1886, pag. 103. 3648
— Cæspitulis sparsis, laxis, plerumque ex individuis parvis compositis, minutis, $\frac{1}{2}$ -2 mm. latis, interdum autem confluentibus et majoribus, ochraceis; stipitibus erectis, simplicibus vel apicem versus furcatis, fulvis, 450-700 μ . longis, subteretibus, sursum dilatatis, ex hyphis dense coalitis, parallele stipatis, apicem versus divergentibus et sporidia gerentibus, compositis; conidiis copiosis, fusiformibus, deorsum in stipitem tenuem attenuatis, sursum acutatis, triseptatis, dilutissime ochraceis, 33-44 μ . (cum stipite) longis, 5-7 μ . crassis.

Hab. parasitice in *Meliola inermi* in foliis vivis ignotis in insula S. Thomè Afr. occ.

Ser. 2. Phæostilbæ Sacc.*Sect. 1. Amerosporæ* Sacc.

STYSANUS Corda — Sacc. Syll. IV, p. 690.

- *3. **Stysanus setaceus** Pass. in litt. Martelli in Flor. Bog. p. 149. 3349
 Gregarius, fuscus; stipitibus e basi bulbeo-incrassata sensim attenuatis, 250-400 μ . longis, ex hyphis filiformibus, 2,5 μ . crassis, continuis, fuliginis formatis; conidiis.....

Hab. in ramis putrescentibus *Acaciae* prope Keren Abyssiniæ.

BASIDIELLA Cooke in Grev. VI, p. 118 et Some Moulds p. 1. (Etym. a *basidio*). — Stipites ex hyphis paucis compositi, fuscis, clavati apice capitato-conidiophori. Hyphæ clavatæ, superne basidiis minutis ornatae. Conidia capitato-congesta, globosa, asperula, fuliginosa.

1. **Basidiella sphærocarpa** Cooke in Grev. IV, p. 118 et Some Moulds 3650
 p. 1, t. IX, fig. 1. — Stipitibus brevibus, ex hyphis tribus vel amplius, parce coalitis, compositis, fuliginis; hyphis sursum clavatis, continuis, basidiis acicularibus præditis, $\frac{1}{10}$ mm. altis, 30 μ . latis, basi attenuatis, 5 μ . diam., mycelio repente, brunneo insertis; conidiis in capitulum globosum congestis, sphæroideis, episporio verruculoso, 4 μ . diam. fuscis.

Hab. in ligno emortuo putri *Gloriosæ* superbæ, Madras Indiæ.

Sect. 2. Phragmosporæ Sacc.

ISARIOPSIS Fries — Sacc. Syll. IV, p. 630.

- *7. **Isariopsis subulata** Ellis et Ev. in Journ. of Myc. 1886, p. 104. 3651
 — Stipitibus subulatis, 1-1,5 mm. altis, sursum attenuatis et pallidius coloratis, ex hyphis arcte compactis, brunneis compositis, basi subbulbosis, strigosisque conidia plerumque binucleata, hyalina, ovata, 7-8 \approx 4 ferentibus.

Hab. in culmis putrescentibus *Zeæ* *Maydis* in America bor. (LANGLOIS).

Fam. 4. Tuberculariæ EHRENB. emend.**Ser. 1. Tuberculariæ mucedineæ SACC.****Sect. 1. Amerosporæ Sacc.****TUBERCULARIA** Tode — Sacc. Syll. IV, p. 638.

- *1. **Tubercularia carnea** Pass. in litt. Martelli in Flora Bog. p. 150. 3652
— Sparsa, superficialis, carnea, lenticularis; conidiis exiguis, ellipsoideis, $3\frac{1}{2}$ -4 \approx $2\frac{1}{2}$, plus minus perspicue binucleatis, hyalinis, basidiis tenuibus, longioribus fultis.

Hab. in Keren Abyssiniæ.

- *2. **Tubercularia Lévillei** Berl. et Sacc. *Tubercularia depressa* Lév. 3653
in Ann. Sc. nat. 1863, pag. 298, non *T. depressa* Lév in Ann. Sc. Nat. 1846. — Sporodochiis erumpentibus, discoideis, applanatis, subtus albis, disco depresso cinnabarino, basidiis stipatis, rectis, brevibus continuis; sporulis ovatis, obtusis, incoloribus, diametro duplo triplove longioribus.

Hab. ad cortices, Acerradero Novæ Granatæ (LINDIG). — *Tuberculariam discoideam*, optime evoluta, refert.

TUBERCULINA — Sacc. Syll. IV, p. 653.

1. **Tuberculina japonica** Spig. in Rev. Myc. 1886, pag. 183. — Sporodochiis parvulis, hemisphærico-applanatis, subpulveraceis, solitariis, sordide fulvescentibus, 300-400 μ . diam., areola parum incrassato-pulvinata, subfulvescente insidentibus; conidiis globosis, crassiuscule tunicatis, levibus, 7-8, fulvescenti-hyalinis, in sterigmatibus filiformibus, rectis, subcoalescentibus, 30 \approx $1\frac{1}{2}$, olivaceis acrogenis. 3654

Hab. ad folia viva Lycii chinensis in dumetis prope Tokio Japon Asiæ or.

ILLOSPORIUM Mart. — Sacc. Syll. IV, p. 656.

- *1. **Illosporium ampelophagum** Berl. et Sacc. — Sporodochiis erumpenti-superficialibus, albidis, globoso-pulvinatis vel confluyendo elongatis, $\frac{1}{5}$ - $\frac{1}{4}$ mm. diam., ex sporophoris dense intricato-stipatis effectivatis; sporophoris tortuosis, ramulosis, septatis, hyalinis, basi subinde per ganglia sporomorpha, ellipsoideo-inæqualia, 13 \approx 10, 3655

uni-biseptata coalescentibus; conidiis ovato-ellipsoideis, continuis, 7-10 \approx 4-5, acrogenis, subinde (germinando?) apiculatis.

Hab. in pedunculis et pedicellis languidis *Vitis viniferae* ustione solis correptæ, in Agro Veneto.

HYMENULA Fr. — Sacc. Syll. IV, p. 667.

* 12. **Hymenula bicolor** Oud. Contr. Flore Myc. Pays-Bas XI, p. 53. 3656

— Maculis suborbicularibus, $\frac{1}{2}$ -1 mm. diam., cum subiculo arcte connatis, colore primitus albissimo, postea centro dilute griseo margine paulum sinuoso, oculo armato explorato plus minus flocculoso; colore griseo portionis centralis, qui sensim versus peripheriam sese extenuat, originem ducit a conidiis exacte sphaericis, 14 μ . diam., minutissime asperulis, in apice basidiorum conico-papilliformium solitariis.

Hab. in ligno Pini hudo in Horto Botanico Amsterdam Hollandiæ.

CYLINDROCOLLA Bon. — Sacc. Syll. IV, p. 673.

* 3. **Cylindrocolla cylindrophora** E. et Ev. in Journ. of Myc. 1886, 3657

pag. 39. — Cæspitulis (hudis) minutis, 1 mm. diam., vix translucidis (?), gelatinosis, subinde confluentibus et tum 3-4 mm. longis, siccitate dilabentibus, hyphis fasciculatis, erectis, gracilibus, dichotome ramosis, conidia oblongo-cylindracea, hyalina, primo granulosa, demum uniseptata, 20-24 \approx 5-6, lateraliter gerentibus.

Hab. in superficie inf. asseris pinei Newfield, New Jersey Amer. bor.

Sect. 3. Phragmosporæ Sacc.

FUSARIUM Link — Sacc. Syll. IV, p. 694.

* 104. **Fusarium nivale** Ces. in Rabenh Herb. myc. Ed. I, n. 1439, *Fu-* 3658

sarium oxysporum Schlech. Fl. Ber. II, pag. 139? — Sporodochiis primo optime distinctis, punctiformibus, seriatis, e carneominiatis, demum in stratum gelatinosum confluentibus; conidiis minutis, parum curvatis, utrinque rotundatis, apiculatis, fere inæqualibus, 1-5-septatis, 14-20 μ . longis.

Hab. in culmis Cerealiæ hibernantium prope Vercelli Italiæ borealis.

* 105. **Fusarium stillatum** De Not. in herb. — Acervulis, epidermide 3659

valvatim secedente denudatis, oblongatis, humectis pallescentibus

tremellosis, flaxilibus, 1-2 mm. long. æquantibus; sporodochiis tenuibus, dense flocculosis; conidiis innumeris, coacervatis, teretibus utrinque obtusis, curvatis, hyalinis, 20-35 μ . long., nucleo lacunula angusta ad medium interrupto.

Hab. in caulibus exiccatis Genistæ tinctoriæ ad pontem Possaccio Val Intrasca Ital. bor.

- * 106. **Fusarium (?) Rubi** Winter in Hedw. 1885, p. 258. — Hyphis 3660
densissime stipatis, partes florales præcipue filamentis obducentibus, erectis, brevibus, plerumque simplicibus, rarius parcissime ramulosis, hyalinis; conidiis fusiformibus, utrinque acutis, sæpe parum curvatis seu inæquilateralibus, 1-3-septatis, ad septa non constrictis, hyalinis, 14-30 \approx 3-3,5.

Hab. ad flores Ruborum cultorum prope Cobden, Illinois Amer. bor. (F. S. EARLE).

- * 141. **Fusarium oidioides** Spieg. in Rev. Myc. 1886, pag. 183. — Ma- 3661
culis nullis, mycelio epiphylo, laxissime effuso, subpulveraceo, indefinito, albo; hyphis hyalinis, repentibus dense ramosis gracilibus, 3-4 μ . crass., hinc inde ramulis irregulariter subfasciculatis, rarius solitariis, utrinque non vel vix attenuatis, 5-10 \approx 4-5, apice truncatis ac 2-3 sterigmatibus papilliformibus brevissimis coronatis; conidiis fusoides, leniter falcatis, non constrictis, utrinque acutis, hyalinis, 30-50 \approx 3-4, solitariis.

Hab. ad folia viva Polygoni multiflori in dumetis prope Tokio Japon.

STRUMELLA — Sacc. Syll. IV, pag. 742.

- * 4. **Strumella Darniana** Roum. et Wint. in Rev. Myc. 1886, p. 213. 3662
— Sporodochiis gregariis, in macula permagna, rotundato subirregulari, ambitu flexuoso, lobato crenatoque, determinato, albido, margine lato, lutescente et area obscuriori indeterminata, pro maxima parte epiphyllis, parcius hypophyllis, forma variis, sphaeriformibus vel plus minusve elongatis, fere hysteriiformibus, usque $\frac{1}{2}$ mill. longis, atris, erumpentibus, demum superficialibus, ex hyphis erectis vel ascendentibus, crassis, articulatis, deorsum nigricantibus, sursum hyalinis, ramosis (interdum dichotomis) et dense contextis formatis; conidiis ignotis.

Hab. in foliis vivis Artocarpï integrifoliæ in insula Mauritio (DARNTY).

*Ser. 2. Tuberculariæ dematiæ**Sect. 1. Amerosporæ Sacc.*

EPICOCCUM Link. — Sacc. Syll. IV, p. 736.

30. **Epicoccum Malinvernianum** Cesat. et De Not. in Erb. Critt. It. 3663
I, n. 789. Sacc. Syll. IV, p. 742. — Hypophyllum, punctiforme,
atrum, effusum vel subcircinnatum; sporodochiis pulviniformibus,
fuscis, obscure cellulosis, cellulis periphericis subelongatis, articu-
latis sporiferis; conidiis sphaericis, fuligineo-fuscis, muriculatis, vix
translucidis, decussis, appendiculo diaphano notatis.

Hab. in foliis emortuis Mororum, Oldenico Vercelli Ital. bor.

APPENDIX

Dum Additamenta hæc sub prelo erant species, quæ nunc in calce traduntur, variis in libris prodierunt.

PYRENOMYCETÆ

- *1. **Podosphæra Aucupariæ** Eriksson Fungi par. scand. exsicc. n. 233. 7404
 — Hypophylla; mycelio evanido; peritheciis sparsis, sphæroideis, minutis; appendicibus paucis, (4-6) diametrum perithecii ter superantibus, e parte superiore perithecii radiatim divergentibus.
Hab. in foliis Sorbi Aucupariæ ad Lilljans Ostra Stationem Stockholm Scand.
- *7. **Asterina pseudocuticulosa** Winter in Hedwigia 1886, p. 35. — 7405
 Peritheciis sparsis, epiphyllis, orbiculari-scutellatis, atris, contextu parenchymatico, fusco, sed non radioso, sine ostiolo et non dehiscentibus, irregulariter dilabentibus, 380-410 μ . diam., mycelio parco, hyalino, ex hyphis tenuissimis, repentibus, ramosis formato; ascis subglobosis vel subovatis, sessilibus, 8-sporis, 44-50 \approx 32-38; sporidiis conglobatis, oblongo-fusoideis, inæquilateralibus, et parum curvatis, utrinque attenuatis, hyalinis, medio uniseptatis et constrictis, 28-30 \approx 10,5.
Hab. in foliis vivis Coffeæ arabicæ in insula S. Thomè Afr. occ.
- *8. **Asterina circularis** Winter in Hedwigia 1886, p. 94. — Mycelio 7406
 plagas minutas, $\frac{1}{2}$ -1 mm. latas, epiphyllas, sparsas, atras, efficiente, ex hyphis repentibus, flexuosis, simpliciter ramosis, fuscis, formato; hyphopodiis plerumque alternantibus, profunde lobulato-crenatis, stipitatis, fuscis; peritheciis aggregatis, in orbem unicum vel in orbis duos concentricos dispositis, applanatis, rotundatis, e centro marginem versus, radiatim dehiscentibus, fusco-atris; ascis late ovatis vel piriformibus, sessilibus, octosporis, 36-41 \approx 23-30; sporidiis oblongo-clavatis, medio uniseptatis, constrictisque, utrinque rotundatis, cellula inferiori parum angustiori, fuscidulis, 15-16 \approx 8-9.

Hab. in foliis vivis plantæ herbacæ adhuc indeterminatæ in insula S. Thomè Afr. occ.

- * 13. **Asterina tenuis** Winter in Hedwigia 1886, p. 94. — Mycelio 7407 effuso, tenuissimo, ex hyphis repentibus, valde ramosis, anastomosantibus, flexuosis, torulosisque, fuscis formato, hyphopodiis numerosis, sessilibus vel brevissime stipitatis, fere palmatis, lobulis distinctis, plerumque 6 præditis, fuscis; peritheciis gregariis, sæpe 2-3 dense aggregatis et confluentibus, applanato-disciformibus, sæpe ambitu angulatis, a centro marginem versus radiatim dehiscentibus, fusco-atris, margine fimbriatis, 85-130 μ . diam.; ascis fere globosis, sessilibus, 8-sporis, 70-35 \approx 26-32; sporidiis oblongis, medio uniseptatis, constrictis, utrinque rotundatis, cellula inferiori parum angustiori, non raro subinæquilateralibus, fuscis, 16-18 \approx 8-9.

Hab. in foliis vivis arboris ignotæ in insula S. Thomè Afr.

- * 14. **Asterina (?) Mœsæ** Pat. in Rev. Myc. 1886, pag. 180. — Pe- 7408 ritheciis punctiformibus, numerosis, superficialibus, globulosis vel depressis, subastomis, brunneis, hyphis radiantibus, ramosis, concoloribus, superficie foliorum adhærentibus cinctis; ascis cylindraceis, subsessilibus, paraphysibus filiformibus, parvis cinctis, 50-65 \approx 10-15, sporidiis cylindraceis, rectis, viridibus, 13-15 \approx 3-4, uniseptatis.

Hab. in foliis Ericacæ (Mœsa), Yunnam Sinarum (Ab. DELAVAY).

- * 15. **Asterina (?) Barleria** Pat. in Rev. Myc. 1886, pag. 180. — Pe- 7409 ritheciis superficialibus, 1 mm. diam., nigris, globulosis, astomis, mycelio nullo; ascis latis, rotundatis, breve stipitatis, 50 \approx 23, paraphysatis; sporidiis octonis, primo hyalinis dein rufis, uniseptatis, 16 \approx 10.

Hab. ad nervos bractearum Barleria, Yunnam Sinarum (Ab. DELAVAY).

- * 28. **Asterina purpurea** Ellis et Mart. in Journ. of Myc. 1886, p. 128. 7410 — Peritheciis hypophyllis, convexo-scutellatis, sparsis vel gregariis, sæpe basim foliorum occupantibus, subastomis, radiato-cellulosis, 130-150 μ . diam., margine fimbriato, ex hyphis purpureo nigris, arete superficie foliorum rufo-purpureo coloratorum adnatis; ascis obovatis, 30-35 \approx 18-22, octosporis; sporidiis stipitatis, ovato-oblongis vel ellipsoideo-oblongis, 12-16 \approx 5-6, hyalinis, endochrome tripartito dein cellula septo longitudinali imperfecto divisa.

Hab. in foliis vivis Oleæ americanæ, Florida Amer. bor.

- * 10. **Dimerosporium excelsum** Cooke in Grevillea XV, p. 17. — Ma- 7411

culas radiantes, atras, orbiculatas, crustaceas, in foliorum pagina inferiore formans; peritheciis subglobosis, membranaceo-carbonaceis, 15 mm. diam., centro congestis; ascis clavatis, sessilibus, basi angustatis, octosporis; sporidiis ellipsoideis, uniseptatis, medio leniter constrictis, utrinque rotundatis, hyalinis, 12 \approx 4.

Hab. in foliis emortuis *Knightsiæ excelsæ*, New Zealand Australiæ (COLENSO).

- * 10. **Dimerosporium Langloisii** Ell. et Mart. in Journ. of Myc. 1886, 7412 pag. 129. — Peritheciis gregariis, depresso sphaeroideis, rugosis, atris, subastomis, 112-120 μ . diam., mycelio ex hyphis brunneis, ramosis, formato, maculas parvas, obscure coloratas formante insidentibus, leniter sparsis in superiore pagina foliorum; ascis subsessilibus, oblongis, sæpe inæquilateralibus, 25-30 \approx 7-9, aparaphysatis; sporidiis distichis, clavato-oblongis, luteo-brunneis, 4-nucleatis, uniseptatis, vix ad septum constrictis, 9-10 \approx 3,5-4.

Hab. in foliis vivis *Diantheræ humilis*, Louisiana Amer. bor. — Perithecia contextu radiato-celluloso, subinde sporulas binucleatas, oblongo-cylindraceas, 7-8 \approx 2, subhyalinas continentia.

- * 11. **Dimerosporium nimbosum** Ell. et Mart. in Journ. of Myc. 1886, 7413 pag. 125. — Mycelio hyphis, repentibus, brunneis, ramosis, ramis brevibus, erectis, conidia oblongo-clavata, 3-4-septata, brunnea, 35-40 \approx 6-8 gerentibus et hyphis sterilibus, formato, maculas orbiculares velutinas, $\frac{1}{2}$ -1 cm. latas, subinde confluentes, caulesque tegentes formante; peritheciis centro macularum gregariis, erumpentibus, conoideis, carbonaceo-membranaceis, rugosis, $\frac{1}{3}$ mm. d., subinde ostiolo imperfecte sulcato-striato, promiaulo, papilliformi ornatis; ascis subcylindricis, 70-80 \approx 10-14, subsessilibus, copiose paraphysatis; sporidiis octonis, distichis, oblongo-cylindraceis, 16-26 \approx 5-6, luteis, primo binucleatis, dein uniseptatis, ad septum vix constrictis.

Hab. in caulibus vivis *Smilacis*, Florida Amer. bor.

- * 12. **Dimerosporium xylogenum** Ell. et Ev. in Journ. of Myc. 1886, 7414 p. 102. — Peritheciis superficialibus, sparsis, depresso hemisphaericis, rugosis, $\frac{1}{6}$ -1 mm. diam., obscure ostiolatis; ascis obovatis, basi in stipitem brevem contractis, 35-40 \approx 20-24, aparaphysatis, octosporis; sporidiis oblongo-ellipsoideis, 1-septatis, granulosis, subhyalinis, 15-18 \approx 8.

Hab. in ligno putri *Salicis*, Louisiana Amer. bor. (LANGLOIS).

- * 1. **Meliola Spartinae** (Ell. et Ev.) Berl. et Vogl. *Dimerosporium* 7415 *Spartinae* Ell. et Ev. in Journ. of Myc. 1886. p. 102. — Mycelio

maculas minutas, 2-4 mm. longas, oblongas vel ellipsoideas, atras formante, ex hyphis sterilibus, primo subhyalinis, sed dein opacis, subnodulosis, erectis, simplicibus, septatis, 130-175 \approx 6-8, ex hyphis fertilibus, repentibus, pallide luteis, conidia fusosideo-cylindracea vel subfalcata, nucleata, 40-60 \approx 3 gerentibus composito; peritheciis inter hyphas steriles nidulantibus, atris, membranaceis, subovatis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., sursum late pertusis; ascis clavato-cylindraceis, 75 \approx 15, paraphysibus imperfecte evolutis obvallatis, octosporis; sporidiis oblongo-cylindraceis, luteolis, vix curvulis, 3-4-nucleatis, dein uniseptatis, 18-20 \approx 4-5, demum imperfecte triseptatis.

Hab. in vaginis inferioribus emortuis *Spartinae polystachyæ*, Plaquemines Amer. bor. (LAGLOIS).

- * 2. **Meliola bicornis** Winter in Hedwigia 1886, pag. 99. — Mycelio 7416
Lindbunda sp. plagas plerumque submagnas, usque 8 mm. latas, plus minusve irregulares, tenuissimas, atras, epiphyllas, sparsas vel effusas et confluentes formante, ex hyphis longissime repentibus, laxè ramosis, flexuosis et valde torulosis, atro-fuscis contexto; hyphopodiis numerosis, sæpe oppositis, plerumque subpiriformibus, brevissime stipitatis, sæpe parum curvatis, fuscis, aliis multo sparsioribus, ampulliformibus immixtis; setis erectis, numerosis, ad apicem plerumque breviter di-vel trichotomis, interdum sub apice cum ramulo brevissimo obsitis; peritheciis laxè gregariis, globosis, mox concavis, rugulosis, atris, 120-160 μ . diam.; ascis ellipticis vel elliptico-oblongis, sessilibus, vel brevissime stipitatis, 2-4-sporis, 50-60 \approx 21-28; sporidiis cylindraceis, vel cylindraceo-subclavatis, utrinque rotundatis, 4-septatis, ad septa parum constrictis, fuscidulis, 35-44 \approx 12-14.

Hab. in foliis vivis Leguminosarum in insula S. Thomè Afr. occ.

- * 4. **Meliola aciculosa** Winter in Hedwigia 1886, p. 98. — Mycelio 7417
 epiphyllo, rarissime etiam hypophyllo, plerumque longe lateque effuso, folium totum laxè obducente vel plagas limitatas, sparsas, minutas, rotundatas vel irregulares, 1-2 mm. latas, atras efformante; hyphis repentibus, parce remoteque ramosis, torulosis, flexuosisque, fuscis, hyphopodia, alternantia, subpiriformia, vel irregularia, sæpe truncata, integra seu parum lobata, stipitata, sæpe curvata, fusca gerentibus; setis erectis in mycelio nullis, e basi perithecorum autem 3-6-ortis, valde curvatis, simplicibus, acutis, fusco-atris, 10,5-12 μ . crassis; peritheciis sparsis v. parce aggregatis, globosis, demum concavis, rugosis, atris, 150-160 μ . diam.; ascis ellipticis,

vel ellipsoideo-oblongis, breviter stipitatis, 2-3-sporis, 43-46 \approx 19-32; sporidiis cylindræis, utrinque haud vel perparum attenuatis et late rotundatis, inæquilateralibus vel curvulis, 4-septatis, ad septa parum constrictis, fuscis, 30-37 \approx 10,5-14.

Hab in foliis vivis Cucurbitacearum aliarumque plantarum in insula S. Thomè Afr. occ.

- * 5. **Meliola clavulata** Winter in Hedwigia 1886, p. 98. — Mycelio 7418
 plagas hypophyllas, sparsas, orbiculares, vel plus minusve irregulares, 1-3 mm. latas, atras, subcrustaceas efficiente, ex hyphis repentibus, flexuosis, torulosisque, valde ramosis, fuscis contexto; hyphopodiis plerumque alternantibus, capitatis ovatisve, sæpe parum curvatis, interdum subcrenatis, breviter pedicellatis, fuscis, aliis ampulliformibus, sparsis; setis erectis e mycelio ortis, numerosis, rectis, apicem versus plerumque parum sed distincte incrassatis, subclavatis, 7 μ . crassis; peritheciis gregariis, globosis, demum collapsis, cupuliformibus, atris, verruculosis, 150-180 μ . diam.; ascis elliptico-oblongis, stipitatis, 2-4-sporis, 50-60 \approx 21-33; sporidiis fere cylindræis, utrinque rotundatis, e latere visis parum curvatis, 4-septatis, ad septa constrictis, fuscis, 30-34 \approx 12-13.

Hab. in foliis vivis Convolvulacæe cujusdam in insula S. Thomè Afr. occ.

- * 6. **Meliola Molleriana** Winter in Hedwigia 1886, p. 98. — Mycelio 7419
 plagas epiphyllas, dense sparsas, sæpe confluentes, rotundatas seu plus minusve irregulares, atras, $\frac{1}{2}$ -2 mm. latas formante, ex hyphis repentibus, flexuosis, laxè ramosis, fuscis, hyphopodia capitata, plus minusve varieque lobata crenataque, alternantia, stipitata, fusca gerentibus, contexto; setis erectis in mycelio nullis; peritheciis gregariis, globosis, rugulosis, vertice non vel perparum impressis, ad basim nonnullis setis adscendentibus, sæpe curvatis, tenuibus, membrana crassa præditis, acutiusculis, fuscis cinctis, membranaceis, atris, 140-180 μ . diam.; ascis ellipticis vel ellipsoideo-oblongis, breviter pedicellatis, bisporis, 47-66 \approx 21-25; sporidiis cylindræis, utrinque rotundatis, 4-septatis, ad septa parum constrictis, fuscis, 36-42 \approx 13-14.

Hab. in foliis vivis Malvacæe adhuc ignotæ in insula S. Thomè Afr. occ.

- * 7. **Meliola anastomosans** Winter in Hedwigia 1886, p. 96. — Mycelio 7420
 plagas minutas, $\frac{1}{4}$ - $\frac{1}{2}$ mm. latas, sæpe confluentes, plerumque epiphyllas, sparsas vel dense stipatas, atras, rotundatas vel irregulares formante, ex hyphis repentibus, ramosis, valde anasto-

mosantibus, flexuosis, curvatisque, fuscis contexto; hyphopodiis alternantibus, capitatis, integris, stipitatis, aliis plerumque oppositis, ampulliformibus; peritheciis gregariis, globosis, demum impressis, et concavis, verruculosis, atris, 130-170 μ , diam.; ascis ellipticis seu elliptico-oblongis, breviter stipitatis, 2-4-sporis, 50-60 \approx 26-32; sporidiis cylindraceutis, utrinque rotundatis, e latere visis parum curvatis, 4-septatis, ad septa subconstrictis, fuscis, 33-35 \approx 10,5-12.

Hab. in foliis vivis Labiatarum (ut videtur) in insula S. Thomè Afr. occ.

- *8. **Meliola conglomerata** Winter in Hedwigia 1886, p. 35. — Mycelio plagas, parvas, epiphyllas, sparsas, rotundatas sen parum irregulares, pulviniformes, atras, $\frac{1}{2}$ -2 mm. latas, efficiente, ex hyphis repentibus, ramosis, flexuosis, fuscis, hyphopodia dense stipata, plerumque alternantia, subglobosa vel late piriformia, pedicellata, recta vel parum inæquilateralia gerentibus formato; peritheciis conglomeratis, globosis, mox impressis et concavo-umbilicatis, verrucis magnis, pyramidalibus dense obsitis, atris, 200-250 μ . latis; ascis ellipticis vel ellipsoideo-oblongis, substipitatis, 2-4-sporis, 58-74 \approx 28-35; sporidiis cylindraceutis, utrinque late rotundatis, baud attenuatis, 4-septatis, fuscis, 35-39 \approx 14-16. 7421

Hab. in foliis ignotis (arboris) in insula S. Thomè Afr. occ.

- *10. **Meliola triloba** Winter in Hedwigia 1886, pag. 97. — Mycelio plagas minutas, plerumque epiphyllas, rarissime etiam hypophyllas, rotundatas vel irregulares, $\frac{1}{2}$ -3 mm. latas, atras, efficiente, ex hyphis repentibus, sublaxe ramosis (ramis elongatis, parum flexuosis), fuscis formato; hyphopodiis alternantibus, subpiriformibus, lobulis 3-4 distinctis præditis, stipitatis, fuscis, aliis sparsis ampulliformibus mixtis; setis nullis; peritheciis gregariis, globosis, vix depressis, verrucis magnis, pyramidalibus obsitis, atris, 180-210 μ . diam.; ascis ellipticis vel elliptico-saccatis, breviter stipitatis, bisporis, 58-62 \approx 30-35; sporidiis cylindraceutis, utrinque late rotundatis, e latere visis parum curvatis, 4-septatis, fuscis, 36-44 \approx 16-17,5. 7422

Hab. in foliis vivis Cucurbitacearum in insula S. Thomè Afr. occ.

- *11. **Meliola asterinoides** Winter in Hedwigia 1886, p. 96. — Mycelio plagas minutissimas, epiphyllas, sparsas, rotundatas, subpulvinatas, atras, $\frac{1}{4}$ -1 mm. diam, formante ex hyphis repentibus, ramosis subflexuosis, atro-fuscis, vix 7 μ . crassis, formato; hyphopodiis ovato-clavatis, fere sessilibus, integris, rarissime ampulli- 7423

formibus; peritheciis sæpe solitariis vel parvis, in centro plagarum aggregatis, depressis, ambitu parenchymatico, radiante, fusco, demum e centro marginem versus dehiscentibus, 180-270 μ . latis; ascis elliptico-oblongis, breviter stipitatis, bisporis, 38-42 \approx 17-18; sporidiis cylindræis, utrinque late rotundatis, 4-septatis, ad septa valde constrictis, cellula secunda sæpe parum latiori, fuscidulis, rectis, 26-30 \approx 9,5-10,5.

Hab. in foliis vivis Piperaceæ cujusdam in insula S. Thomè Afr. occ.

- *12. **Meliola stenospora** Winter in Hedwigia 1886, p. 97. — Mycelio plagas parvas, 1-3 mm. latas, atras, rotundatas vel irregulares, amphigenas, plerumque sparsas, raro confluentes formante; hyphis repentibus, remotissime ramosis, sæpe valde flexuosis, fusco atris, 7 μ . crassis; setis erectis, numerosis, crassis, strictis, opace atris, simplicibus, acutis, 10-11 μ . crassis; hyphopodiis pro maxima parte laxè piriformibus, varie lobatis, rectis, rarius curvatis, stipitatis, fuscis, cum parvis ampulliformibus mixtis; peritheciis gregariis, globosis, demum concavis, rugosis, atris, 140-160 μ . diam.; ascis elliptico-oblongis seu obovatis, breviter stipitatis, 2-4-sporis, 50-58 \approx 26-28; sporidiis cylindræis, utrinque parum attenuatis, et rotundatis, curvulis, 4-septatis, fuscis, 35-44 \approx 9, 5-12.

Hab. in foliis vivis Piperaceæ ignotæ in insula S. Thomè Afr. occ.

- *30. **Meliola velutina** Winter in Hedwigia 1886, p. 97. — Mycelio plagas, plerumque magnas, usque 15 mm. longas, sæpe confluentes, velutinas, atras, hypophyllas, irregulares efficiente, ex hyphis repentibus laxè remoteque ramosis, plus minusve flexuosis, torulosisque fuscis, formato; setis erectis numerosissimis, strictis, acutis, apicem versus parum sed distincte undulato-tuberculatis, fusco-atris, 8-8,5 μ . crassis; hyphopodiis sparsis, irregularibus, sæpe varie lobatis, crenatis plerumque curvatis, stipitatis, fuscis; peritheciis sparsis, depresse globosis, demum collabescentibus, umbilicatis et concavis, atris, 200-220 μ . diam.; ascis non visis; sporidiis subcylindræis, utrinque perparum attenuatis, fuscidulis, rectis, sæpe parum inæquilateralibus, sed non curvatis, 42-44 \approx 9,5-12.

Hab. in foliis emortuis Cannaceæ cujusdam in insula St. Thomè Afr. occ.

- *32. **Meliola? sordidula** (Lév.) Berl. et Sacc. *Sphaeria sordidula* Lév. in An. Sc. Nat. 1863, pag. 296. — Maculis in pagina superiore orbicularibus, sparsis, plus minus latis, convexis, subtus,

concavis e peritheciis superficialibus asperis, fuliginosis vel nigris, sordidis, particulis epidermidis hinc inde obtectis, dein nudatis; peritheciis globosis, stipitatis atro-fuscescentibus, ostioliis minutis, vix papillatis; paraphysibus simplicibus, continuis; ascis clavatis; sporidiis octonis, fusiformi-abbreviatis, medio constrictis, subobtusis, 1-5-septatis, incoloribus, diametro sextuplo longioribus.

Hab. ad folia *Gyrinopseos* (?), S. Antonio, Boca del Monte Novæ Granat. (LINDIG).

RICHONIA Boud. in Rev. Myc. 1885, p. 224 (Etym. A. cl. *Richon* cui genus dicatum. — Perithecia semper repleta, firma, sparsa, superficialia, carbonacea, astoma, supra rotundata, subtus depressa intus grumosa. Asci clavati, crassi, 2-6-spori, mox resoluti. Sporidia majora, didyma, loculis rotundatis, obtusis, ad septum constricta, primo levia, hyalina, guttulata, dein filamentosa, marcescentia, olivascentia, denique maxima, aterrima, rugulosa et difformia. Paraphyses numerosæ, tenues ramosissimæ et intricatæ, ascos sporidiaque circumdantes. — Genus *Perisporiacearum* hypogæum «?», rhizophilum a genere *Zopfia* sporidiis filamentosis non appendiculatis et ascis clavatis omnino diversum.

1. **Richonia variospora** Boud. in Rev. Myc. 1885, p. 265, tab. LVI, 7427 fig. 1. — Peritheciis sparsis, magnitudine variis, 0,5-1 mm. diam., subnitidis rugulosis; ascis clavatis, ad basim vix attenuatis, apice rotundatis, 2-6-sporis, primo hyalinis, dein sporidiis fuscescentibus et tum resolutis, 100-150 \approx 20-35; sporidiis majoribus, dein maximis, primo inclusis, hyalinis, levissimis, medio septatis et constrictis, utrinque perfecte rotundatis, intus nucleis duobus oleosis, maximis fere omnino repletis, cum granulis minutis, ad septum sparsim positis, dein ascis detritis liberis, marcescentibus, paraphyses agglutinantibus, denique difformibus, aterrimis, granulosis et etiam hyalino-filamentosis, junioribus hyalinis, levibus, 35-45 \approx 20-22, statu medio olivascentibus et jam filamentosis, 45-50 \approx 25-35, statu extremo aterrimis, 60-70 \approx 45-50; paraphysibus ramosissimis, tenuibus, intricatis, non aut obscure septatis, intus vix granulosis.

Hab. frequens ad radices *Asparagi officinalis* ad latera viarum dejectas, Montmorency Galliæ.

*3. **Valsa implicata** (Lév.) Berl. et Sacc. *Sphaeria implicata* Lév. in 7428 An. Sc. Nat. 1863, pag. 295. — Peritheciis globosis, aggregatis, ostioliis, prominulis, angulatis, in discum erumpentem, nigrum stipatis; paraphysibus tenuissimis, muco involutis; ascis cylindrico-

clavatis, sporidiis octonis, cylindricis, utroque fine obtusis, curvatis, continuis, hyalinis.

Hab. in corticem arborum in Nova Granata (LINDIE).

6. **Eutypa heteracantha** (Ell. et Ev.) Sacc. *Calosphæria hylodes* Berl. 6255
et Vogl. p. 24. *Valsa hylodes* Ell. et Ev. Journ. of Myc. II, p. 40,
ex autopsia speciminum a cl. Ellis missorum teste cl. Prof. Sac-
cardo, huc spectat.

*6. **Diatrypella hysteroioides** Ell. et Ev. in Journ. of Myc. 1886, 7429
p. 99. — Stromate erumpenti-tuberculiforme, prismatico, sæpe qua-
drisulcato et subcornuto, $1\frac{1}{2}$ -2 mm. diam., luteo sæpe elongato,
hysteroiiformi, et $\frac{1}{2}$ -1 mm. diam., sursum rima longitudinali perit-
hæcia *Hysteroi* simulante; peritheciis 2-6 in quoque stromate, $\frac{1}{3}$ -
 $\frac{1}{2}$ mm. diam., contextu subtili, atro, coriaceo, sursum in collum
breve attenuatis, ostiolo stromatis superficiem perforante, minuto,
papilliformi, subinde conoideo terminatis; ascis clavato-cylindraceis,
basi attenuatis, pedicellatis, 100-115 \simeq 10-12, p. sp. 75-80 μ . longa;
sporidiis numerosis, allantoideis, binucleatis, 6-7 \simeq 1,5, luteolis.

Hab. in ramis decorticatis Populi Louisiana Amer. bor. (LAN-
GLOIS).

3. **Chætomium atrum** Link. — Sacc. Syll. I, pag. 221. *Var. distin-* 795
ctum Roum. in Rev. Myc. 1886, pag. 138. — Peritheciis solita-
riis, in lineas parallelas dispositis, quam in typo majoribus. — In li-
gno Populi loco hudo servato (ANGÈLE ROUMEGUÉRE).

*9. **Chætomium delicatulum** Roum. in Rev. Myc. 1885, p. 22. — Pe- 7430
ritheciis solitariis, raro 2-3 gregariis, ovoideis, regularibus, nigris,
pilis simplicibus, ad basim perithecii brevibus, sursum longis, pe-
rithecii altitudinem æquantibus, parcis, ramosis, fuligineis tectis;
ascis oblongo-ellipsoideis, regularibus, 45-50 \simeq 6-7, breve stipita-
tis, octosporis; sporidiis subsphæroideis, 6-7 μ . diam., hyalinis.

Hab. in pulvere (de Scille gâlee). Seine-Inferieure Galliæ (MAL-
BRANCHE). — Species sporidiis hyalinis a typo desciscens.

*1. **Sordaria pilosa** Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 144. 7431
— Peritheciis immersis, globoso-ovatis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., con-
textu sordide brunneo, ostiolo conico, pilis fuligineis erectis, vulgo
eseptatis, 100 \simeq 2,5 instructo donatis, confluentibus; ascis cuneifor-
mi-clavatis, apice fere truncatis, basim versus sensim attenuatis,
octosporis, 140-150 \simeq 20-22, p. sp. 115-120, parce paraphysatis;
sporidiis mono-vel distichis, ovatis, 17-22 \simeq 11-14, fuligineis, 1-3-
guttulis præditis, denique subopacis, basi cauda hyalina, sporidii
dimidiam partem subæquante auctis.

Hab. in fimo Cuniculorum in pinetis, Gomzè Foret in Belgio. 7432

- * 20. **Hypocopra dunarum** Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 145. — Peritheciis sparsis, immersis, globosis, $\frac{1}{2}$ mm. diam., glabris, contextu membranaceo-coriaceo, badio-fusco, ostiolo brevi et crasso, emergente; ascis cylindraceutis, 200-220 \approx 30-35, apice truncatis membranaque leviter resupinata, basi in stipitem 50-70 μ . longum desinentibus, tetrasporis, raro 5-8-sporis, paraphysibus copiosis, filiformibus, ascos superantibus obvallatis; sporidiis monostichis elliptico-oblongis, primo fuliginis dein atro-opacis, circulo mucoso, hyalino, obvolutis, 40-50 \approx 20-24.

Hab. in fimo Cuniculorum in dunis prope Blankenberghe Belgii.

3. **Philocopra curvicolla** Wint. — Sacc. Syll. II, p. 250. *Var. penicillato-setosa* Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 145. — A typo differt ascis numerum majorem sporidiorum (256-512) continentibus, 210-230 \approx 90-110, ostiolo fasciculo setarum instructo, peritheciis minoribus, $\frac{1}{3}$ mm. diam., sporidiisque 14-17 \approx 9-10. 908

Hab. in fimo Cuniculorum, Forêt Gomzè Belgii.

- * 4. **Philocopra pusilla** Mouton in Bull. Soc. Bot. R. Belg. 1886, p. 146. — Peritheciis exiguis, immersis, glabris, tenuiter membranaceis, pallide virescentibus; ascis cylindraceutis vel oblongis, breve stipitatis, 80-90 \approx 20-24, polysporis; sporidiis (articulis) circa 512, ovato-subglobosis, melleis denique fuliginis, sine zona aut appendiculis, 3,5-4, vel 3-4 μ . diam. 7433

Hab. in fimo Cuniculorum, Angleur Belgii.

- * 3. **Rosellinia Colensoi** Cooke in Grevillea XV, p. 16. — Peritheciis aggregatis, superficialibus, subglobosis setis rigidis, fusciscentibus tectis, papillatis, ascis clavatis, octosporis; sporidiis inordinatis, ellipticis, fuscis, continuis. 7434

Hab. in ligno emortuo, New Zealand Australiae (COLENZO).

- * 9. **Anthostomella Molleriana** Winter in Hedwigia 1886, p. 101. — Peritheciis sparsis, immersis, globosis, ostiolo brevi, conico epidermidem circa ostiolum parum infuscatam perforantibus, atris, glabris, 250-310 μ . latis; ascis subclavatis vel oblongo-cylindraceutis, sessilibus, vertice rotundatis, 8-sporis, 90-96 \approx 16-18; sporidiis in asci parte inferiore monostichis, in superiore parte distichis, oblongo-cymbiformibus, inaequilateralibus vel parum curvatis, utrinque rotundatis, appendicula brevi, subconica praeditis et mucosino, angusto obvolutis, guttulis 2 oleosis repletis, olivaceo-fuscis, 17-21 \approx 7; paraphysibus indistinctis. 7435

Hab. in foliis aridis Musæ in insula S. Thomè Afr. occ.

- *1. **Anthostoma endoxyloides** Mouton in Bull. Soc. R. Bot. Belg. 1886, 7436
p. 146. — Stromatibus immersis, striæformibus, plus vel minus elongatis, ligni superficie paulo denigrata et substantia, ejus vix mutata formatis, nec nigro-limitatis; peritheciis profunde immersis, monostiche aggregatis, ovoideis, 400-450 \approx 500, coriaceis, collo longiusculo, 250 μ . crasso, superne rotundato, poro minuto per-tuso, protuberante instructis; ascis anguste clavatis, longissime pedicellatis, apice obtusis, 100-130 \approx 7-8, p. sp. 50-60, octosporis; paraphysibus filiformibus, ascos superantibus cinctis; sporidiis distichis vel in asci parte inferiore monostichis, fusco-olivaceis, oblongis, apice obtusis, basi truncatis et appendiculo hyalino, verruciformi auctis, inæquilateralibus vel curvulis, 10-13 \approx 3,5-4.

Hab. in ligno putrido, Beaustays in Belgio.

- *5. **Xylaria Trianæ** Lév. in Ann. Sc. Nat. 1863, pag. 292. — Fa- 7437
scaiculata; stromate clavato, sursum obtuso, 4-5 mm. alto, nudo, longitrorsum rimuloso, nigro, intus albo, peritheciis prominentibus, globosis tuberculoso, ostioli punctiformibus, vix papillatis; stipite glabro, tenui, nudo, nigro; paraphysibus filiformibus, simplicibus, continuis; ascis clavatis, sporidiis octonis, uniserialibus, elongatis, ventricosis, obtusis, curvatis, diametro quintuplo longioribus.

Hab. ad truncos, Bogota, Acerradero Novæ Granatæ (LINDIG).
— Species insignis ob vegetationis modum, cæspitulos ex 12-15 individuis compositos formans.

- *6. **Xylaria cylindrica** Lév. in Ann. Sc. Nat. 1868, pag. 292. — 7438
Sparsa vel subfasciculata; clavula cylindrica obtusa abrupte stipitata, nigra, 20 \approx 8, mm., extrinsecus longitrorsum rimulosa; peritheciis globosis, minime prominulis, ostioli punctiformibus, distantibus, vix conspicuis; paraphysibus filiformibus, continuis; ascis clavatis, sporidiis octonis, uniserialibus, fusiformi-abbreviatis, obtusis, rectis vel curvulis, subopacis, diametro 4-5 longioribus.

Hab. ad truncos, Villeta Alto del Trigo Novæ Granatæ (LINDIG).

- *134. **Xylaria melanura** Lév. in Ann. Sc. Nat. 1863, p. 294 (*Cha- 7439*
nocarpus melanurus Lév.). — Stromate verticali, setaceo, 20-30 mm. alto, apice acuto, sterili, nigro; peritheciis superficialibus, discretis globosis, inæqualibus, nigris, ostioli papillatis; paraphysibus filiformibus, continuis; ascis cylindricis, sporidiis octonis, uniserialibus, elongatis, ventricosis, continuis, obtusis, rectis, raro curviusculis, diametro quintuplo longioribus.

Hab. ad truncos arborum exsiccatos, La Mesa, San Antonio Novæ Granatæ (LINDIG).

- *135. **Xylaria metæformis** Lév. in Ann. Sc. Nat. 1863, pag. 293. 7440
 — Stromate ovato-oblongato 10-20 mm., apice sterile, acuto, flavivisculo e cinereo nigro, longitrorsum rimuloso; stipite cylindrico brevi hirto nigro; peritheciis globosis, latitantibus, intus fluxilibus, ostiolis sparsis punctiformibus; paraphysibus filiformibus, interdum bifidis; ascis linearibus; sporidiis subelongatis, utrinque obtusis, uniseriis, curvatis, subopacis, bilocularibus («??»).

Hab. ad truncos, Bogota, Acerradero Novæ Granatæ (LINDIG).

- *136. **Xylaria monticulosa** Lév. in Ann. Sc. Nat. 1863, pag. 293. — 7441
 Stromate ovato-elongato, apice sterili, 0,010-15 mm. alto, acuto, cinereo-nigricante, e conceptaculis globosis, prominentibus, tuberculoso, stipite longo subcylindrico, filis longis, nigris, obsito; ostiolis punctiformibus, sparsis, vix conspicuis; paraphysibus filiformibus, continuis; ascis obovato-cylindricis, sporidiis octosporis, uniseriis, elongatis, ventricosis, obtusis, curvulis, subopacis, diametro quadruplo longioribus.

Hab. ad truncos in sylva Bogota, Acerradero Novæ Granatæ (LINDIG).

128. **Hypoxylon bicolor** B. et C. — Sacc. Syll. I, p. 381, Ell. et Ev. in Journ. of Myc. 1886, pag. 85. — 1461
 Stroma tuberculari-hemisphæricum, circiter 2 mm. diam., superficie undulata atque ostiolis punctulata, ut in *H. punctulato*, rufulum vel subpurpuraceum; perithecia subperiphærica, immersa, circiter 1 mm. diam.; asci acute cylindracei, basi attenuati, circiter 100 \approx 6; sporidia monosticha, subnavicularia vel acute ellipsoidea et inæquilateralia, primo pallide lutea dein opaca, 1-2-nucleata, 9-12 \approx 3,5-4,5 utrinque subacuta.

Hab. in ramulis emortuis *Quercus virescentis* in Amerbor. Affine *H. fusco*.

- *6. **Nummularia discoidea** (Lév.) Berl. et Sacc. *Sphaeria discoidea* 7442
 Lév. in Ann. Sc. Nat. 1863, pag. 295. — Stromate immerso, erumpente, effuso, disciformi, applanato, carbonaceo, nigro; peritheciis magnis, verticalibus, obtectis, collis brevibus; ostiolis conicis prominentibus, nitidis, fossula orbiculari circumdatis; paraphysibus filiformibus continuis; ascis cylindricis, sporidiis octonis, uniseriis, ellipsoideis, obtusis, continuis, subopacis, diametro quadruplo longioribus.

Hab. ad truncos vetustos siccos, Tequendarna Novæ Granatæ (LINDIG).

- *9. **Læstadia Pseudoplatani** Pass. in Rev. Myc. 1886, pag. 205. — Peritheciis epiphyllis, minutis nigris, discoideo-depressis, subgregariis; ascis oblongis vel claviformibus, 25-37 \approx 10, octosporis; sporidiis di- tristichi, navicularibus, continuis, enucleatis, 7,5 \approx 2,5.
Hab. in foliis exiccatis Aceris Pseudoplatani, Saintes Galliæ.
- *58. **Læstadia filicina** Winter in Hedwigia 1886, pag. 100. — Peri-⁷⁴⁴³theeciis epiphyllis, dense sparsis, immersis, epidermide emisphærice elevatâ tectis, globosis, ostiolo minutissimo, vix perspicuo, atris, crasse membranaceis, subnitidis, 100-120 μ . diam.; ascis subcylindrico-clavatis, i. e. e basi stipitiformi sursum parum, sed usque ad verticem, incrassatis, 8-sporis, vertice obtuso, 52-58 \approx 12; sporidiis subdistichis, oblongis, medio inflatis, utrinque attenuatis, rotundatis et appendiculo brevi, pleramque conico, hyalino præditis, sæpe parum curvatis, chlorino-hyalinis, unicellularibus, 14-16 \approx 5; paraphysibus non visis.
Hab. in foliis vivis Filicum in insula S. Thomé Afr. occ.
- *20. **Physalospora Psammæ** Oud. Contr. Fl. Myc. Pays-Bas. XI, p. ⁷⁴⁴⁴20. — Peritheciis epiphyllis, sparsis, atris, glabris, membranaceis, immersis, prominente tantum ostiolo, brevi, papilliformi; ascis cylindraceis vel clavatis, sursum rotundatis, pedicello brevi, obliquo fulcratis, 70-80 \approx 12-14; sporidiis vulgo distichis, semper hyalinis, ellipticis vel ovatis, continuis, 12-14 \approx 5, primitus vacuolis 2 ornatis; paraphysibus numerosis, filiformibus, supra ascos parum eminentibus.
Hab. in foliis Psammæ litoralis, Pulten Hollandiæ.
- *13. **Trichosphæria Rostrupii** Berl. et Vogl. *Trichosphæria* sp. Ro-⁷⁴⁴⁵strup. Unders. Svamp. Rhizoct. pag. 19, tab. I, fig. 6-8. — Peritheciis purpureo-brunneis, pseudo-parenchymaticis, circularibus, setis, rigidis, concoloribus, radiantibus, basi septatis, apice acutis, 100 \approx 5 ornatis; ascis oblongis, sursum acutis, basi in pedicellum, breve desinentibus, 45-50 \approx 8-10, octosporis, aparaphysatis; sporidis inordinate distichis, allantoideis, utrinque uniguttatis, rectis vel curvulis, 14-18 \approx 5.
Hab. in radicibus Ligustri in Islandia.
- GIBELLIA** Sacc. in Misc. Myc. II, p. 12 (Etym. a præclaro botanico prof. JOSEPHO GIBELLI de metagenesi Pyrenomycetum deque pathologia mycogena optime merito. — Stromata subcutaneo-erumpentia, e basi definita depresso-pulvinata, atra, intus pallidiora, superficie ostiolis vix prominulis punctulata. Perithecia globulosa, monosti-

cha. Asci tereti-fusoidei, sessiles, spurie paraphysati, lumine apice bifoveolati, octospori. Sporidia globoso-ellipsoidea, continua, hyalina. — *Dothideaceas*, præsertim *Mazzantiam*, fere imitatur, sed perithecia vera adsunt. Inter *Sphæriaceas hyalosporas* inter *Botryosphæriam* et *Cryptosporellam* locandum.

1. **Gibellia dothideoides** Sacc. et Berl. Misc. Myc. II, n. 23. — Stro-⁷⁴⁴⁶
matibus e basi elliptica depresso-pulvinatis, laxe gregariis, $2 \approx 1-1,5$
mm. d, epidermide secedente demum nudatis, atris, intus pallidio-
ribus, ostioliis leviter prominulis, remotiusculis, punctiformibus; pe-
ritheciis globulosis, monostichis, $\frac{1}{3}-\frac{1}{2}$ mm. diam., in quoque stro-
mate 6-10; ascis tereti-fusoideis, sessilibus, apice obtusis lumine-
que bifoveolatis, 90-100 \approx 20-25, paraphysibus spuris, guttulatis
obvallatis, octosporis; sporidiis distichis vel oblique monostichis e
globoso-ellipsoideis, 18-20 \approx 12-14, bi-pluriguttulatis, hyalinis.

Hab. in ramis corticatis lignosis ignotæ speciei in M. Moon
Australiæ. — A *Bagnisiella Tamaricis* et *B. Ilicis*, quæ *Botryo-*
sphæriam propius spectant, omnino diversa.

2. **Sphærella maculiformis** (Pers.) Auersw. Sacc. Syll. I, pag. 477. ¹⁸²⁰
Var. Pseudoplatani Pass. in litt. Brun. in Rev. Myc. 1886, p. 205.
— Peritheciis subglobosis, miautis, valde appropinquatis, hypophyl-
lis; ascis numerosissimis, cylindræis, 50 \approx 5; sporidiis?...

- *3. **Sphærella syconophila** Winter in Hedw. 1886, p. 101 (*ficophila*). ⁷⁴⁴⁷
— Peritheciis in macula exarida, permagna, usque 35 mm. lata, ir-
regulari, fusca, late viridi cincta, indeterminata, hypophylla grega-
riis, immersis, globosis, poro punctiformi pertusis, membranaceis,
atris, demum emisphærice prominulis, 60-70 μ . latis; ascis obcla-
vatis, e basi crassiori sursum parum attenuatis, sessilibus, octospo-
ris, 24-26 \approx 8; sporidiis conglobatis, fusoideis, utrinque attenuatis,
sed rotundatis, inæquilateralibus et interdum parum curvatis, me-
dio 1-septatis, haud constrictis, hyalinis, 12 \approx 2.

Hab. in foliis Fici cujusdam in insula S. Thomè Afr. occ.

- *4. **Sphærella melanococca** (Lév.) Berl. et Sacc. *Sphæria melano-* ⁷⁴⁴⁸
cocca Lév. in Ann. Sc. Nat. 1863, p. 296. — Peritheciis epiphyll-
lis, gregariis, discretis, erumpentibus, superficialibus, globosis, de-
pressis, levibus, nigris, opacis, intus albis, ostioliis papillatis; para-
physibus raris, linearibus, continuis; ascis clavato-cylindræis, spo-
ridiis octonis, ovato-elongatis, medio constrictis, bilocularibus,
hyalinis.

Hab. ad folia Stylosanthis Guyanensis in Nova Gra-
nata (LINDLÉ).

- *5. **Sphærella Sapindi** Ell. et Ev. in Journ. of Myc. 1886, p. 101. 7449

— Peritheciis epiphyllis, globosis, prominulis, $\frac{1}{3}$ mm. diam., sparsis, maculis rotundis, definite marginatis, albis, 3-4 mm. diam., insidentibus; ascis oblongo-cylindræis, 60 \approx 12; sporidiis distichis, subellipsoideis, utrinque acutiusculis, 1-septatis, ad septum vix constrictis, 16 \approx 4, hyalinis.

Hab. in foliis vivis Sapindi marginati, Missouri Amer. bor. (B. T. GALLOWAY).

- *6. **Sphærella Patouilliardi** Sacc. in litteris. — Maculis submargina- 7450

libus, candicantibus, nitidis, amphigenis; peritheciis hypophyllis, epidermide tectis, gregariis, punctiformibus, globoso-depressis, minutis, 150-200 μ . diam., poro pertusis, contextu indistincto, olivaceo-fusco; ascis dense fasciculatis, tereti-clavatis, breve stipitatis, non vel obsolete paraphysatis, 70-80 \approx 12, octosporis; sporidiis distichis, fusoideis, leniter curvis, utrinque obtusiusculis, 1-septatis (vel saltem plasmate bipartito), 20-25 \approx 3-4, hyalinis.

Hab. in foliis Buxi sempervirentis, Eaux Bonnes in Pyreneis (PATOULLIARD).

51. **Sphærella salicicola** (Fr.) Fuck. — Sacc. Syll. I, pag. 487. *Var.* 1869

borealis Karst. in Hedw. 1884, p. 3. Ascis 50-65 \approx 10-12; sporidiis 9-12 \approx 2-4. — Ad folia emortua Salicis phylicifoliæ, S. Capræ et S. auritæ in Fennia vulgatissima.

- *62. **Sphærella Clematidis** Oud. Contr. Fl. Myc. Pays-Bas XI, p. 21. 7451

— Peritheciis sub epidermide nidulantibus, dense sparsis, maturis atris, poro minuto pertusis, $\frac{1}{10}$ mill. latis, parenchymatoso-membranaceis; ascis clavatis, paulum curvatis, 60-70 \approx 14; sporidiis hyalinis, utrinque obtusissimis, prope medium 1-septatis, 14 \approx 5 tristichis (?).

Hab. in caulibus Aristolochiæ Clematidis, prope Harlem Hollandiæ.

- *64. **Sphærella Cynanthi** Pat. in Rev. Myc. 1886, p. 180. — Peri- 7452

theeciis minutis, numerosis, nigris vel brunneo-rufis; ascis ovoideis, 33 \approx 20 sessilibus; sporidiis uniseptatis, hyalinis, 13 \approx 5, demum viridulis, uno apice attenuatis.

Hab. in caulibus emortuis Cynanthi, Yunnan Sinarum (Ab. DELAVAY).

- *112. **Sphærella Weinmanniæ** Cooke in Grevillea XIV, p. 130. — 7453

Epiphylla; peritheciis gregariis, subglobosis, atris, semiimmersis, punctiformibus, pertusis; ascis clavatis; sporidiis lanceolatis, uniseptatis, 15-18 \approx 4, hyalino-luteolis.

Hab. in foliis emortuis *Weinmanniæ racemosæ*, New Zealand Austral. (COLENZO).

- * 115. **Sphærella Mariæ** Sacc. et Bomm. in Bull. Soc. R. Bot. Belg. 7454
1886, p. 173. — Peritheciis innatis, sparsis, numerosissimis, nigris, epiphyllis, prominentibus, 90-120 μ . diam.; ascis cylindraceo-claviformibus; sporidiis distichis, hyalinis, elongatis, uniseptatis, loculis inæqualibus, 4-guttulatis, ad septum constrictis, 14-18 = 4,5-5.

Hab. in foliis emortuis *Digitalis luteæ*, Hastières Belgii. — Affinis *Sph. silvaticæ*.

- * 165. **Sphærella granulata** Ell. et Ev. in Journ. of Myc. 1886, p. 102. 7455
— Dense gregaria, maculas definite limitatas occupans; peritheciis minutis, $\frac{1}{6}$ mm. diam., epidermide radiatim rupta et perithecia ostendente, non nigrescente tectis, atris, ostiolo papilliformi subprominulo donatis, nucleo albo fartis; ascis subcylindraceis, circiter 70 = 7, subsessilibus, aparaphysatis, octosporis; sporidiis distichis, fusiformibus, vix curvulis, 20-23 = 3-3,5, hyalinis, primo granulosis dein uniseptatis.

Hab. in caulibus emortuis *Baptisiæ tinctoriæ*, Newfield Amer. bor. socia *Sphærella baptisicæcola*.

- * 118. **Sphærella sabaligena** Ell. et Ev. in Journ. of Myc. 1886, p. 101. 7456
— Peritheciis gregariis, 100-125 μ . diam., cuticula cinerescente, vix rupta tectis; ascis subovatis, 22-25 = 12-15; sporidiis stipatis, oblongo-clavatis, 1-septatis, ad septum constrictis, 10-12 = 3, 5-4, subhyalinis.

Hab. in foliis emortuis *Sabalæ Palmetto* in America boreali (LANGLOIS).

- * 123. **Sphærella Aristoteliæ** Cooke in Grevillea XV, p. 16. — Ma- 7457
culis epiphyllis, pallidis, orbicularibus, late fusco-cinctis; peritheciis minutis, immersis, membranaceis, globoso-depressis, perforatis; ascis clavatis, octosporis; sporidiis cylindraceo-ellipsoideis, utrinque rotundatis, uniseptatis, vix constrictis, 18-20 = 4.

Hab. in foliis vivis *Aristoteliæ racemosæ*, New Zealand Australiæ (COLENZO).

- * 210. **Sphærella subcongregata** Ell. et Ev. in Journ. of Myc. 1886, 7458
p. 101, — Peritheciis sparsis, depresso globosis, $\frac{1}{6}$ mm. diam., cuticula nigrescente, ostiolo minuto perforata tectis; ascis oblongis, sessilibus, circiter 35 = 7; sporidiis distichis vel stipatis, hyalinis fusiformi-oblongis vel clavato-oblongis, 1-septatis, 9-11 = 2,5.

Hab. in caulibus emortuis *Smilacis*, Newfield Amer. bor. so-
cia *Diplodina Smilacis*.

- *240. **Sphærella Tassiana** De Not. — Sacc. Syll. I, p. 530. *Var. rupe-* 2058
fortensis Pass. in litt. Brun. in Rev. Myc. 1886. p. 205. Ascis
oblongis, 37 \approx 12; sporidiis inordinatis, oblongis, hyalinis, 1-septa-
tis. — In foliis emortuis *Typhæ latifoliæ* in Horto botanico
Rocheport Galliæ.

- *30. **Didymella prominens** Ell. et Ev. in Journ. of Myc. 1886, p. 101. 7459
— Peritheciis erumpenti-superficialibus, sparsis, ovato-hemisphæ-
ricis, $\frac{1}{4}$ mm. diam., atris, rugosis, ostiolo prominulo, tuberculifor-
mi-conoideo vel breviter cylindraceo, levi donatis; ascis clavato-
cylindraceis, subsessilibus, 40-45 \approx 6-7, paraphysibus filiformibus
cinctis, octosporis; sporidiis subfusoideis vel cymbiformibus, 1-sep-
tatis, hyalinis, 10-12 \approx 3-4, ad septum vix constrictis.

Hab. in caulibus herbaceis emortuis *Ambrosiæ trifidæ* in
America boreali (LANGLOIS).

- *34. **Gnomonia Gei** Pat. et Doass. Tab. An. Fung. Fasc. IV, p. 214. 7460
fig. 495. — Peritheciis sparsis, epidermide tectis, ostiolo filiformi,
valde elongato præditis; ascis brevibus, sessilibus, 26 \approx 5, sursum
truncatis; paraphysibus nullis; sporidiis bacillaribus, acicularibus,
1-septatis, septo vix constrictis, hyalinis, 12-14 \approx 1.

Hab. in caulibus *Gei pyrenaici*, Les Eaux Bonnes Galliæ.

- *13. **Melanopsamma cupressina** Ell. et Ev. in Journ. of Myc. 1886, 7461
p. 103. — Peritheciis superficialibus, gregariis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam.
vel elongatis et subhysterioideis, rugosis, carbonaceo-membrana-
ceis, sursum poro late pertusis, (verisimiliter primo ostiolo pro-
minulo donatis); ascis clavato-cylindraceis, 70-75 \approx 10-12, para-
physibus filiformibus obvallatis, octosporis; sporidiis hyalino-luteo-
lis, clavato-oblongis, 1-septatis, circiter 12 \approx 4.

Hab. in ligno dealbato *Cupressi* in America bor. (LANGLOIS). 7462

- *31. **Venturia palustris** Sacc. Bomm. et Rouss in Bull. Soc. R. Bot.
Belg. 1886, p. 172. — Peritheciis epiphyllis, sparsis, subsuperfi-
cialibus, sphæroideis vel subsphæroideis, $\frac{1}{10}$ mm. diam., nigris pi-
lis variis, brevibus ornatis, macula brunneo-purpurea insidentibus;
ascis subsessilibus, curvatis, 45-51 \approx 9, centro inflatis, utrinque at-
tenuatis; sporidiis hyalinis, irregulariter didymis, subfusoideis, 4-
guttulatis uni-vel subbiseriatis, septo leniter constrictis, 12-15 \approx 5.

Hab. in foliis languescentibus *Comari palustris*, Ottignies
Belgii. — A *V. Potentillæ* macula brunneo-purpurea, ascis fusi-
formibus, sporidiis hyalinis præcipue differt.

- *34. **Venturia Turfosorum** Mouton in Bull. Soc. R. Bot. Belg. 1883, 7463
p. 149. — Peritheciis sparsis, superficialibus, subovatis, 80-100 μ . diam., membranaceis, contextu fuligineo, ostiolo minuto, obtuso obscuriori, setulis plerumque curvatis, basi incrassatis, continuis, 55-70 \approx 3,5, laxe vestitis; ascis obpiriformibus, breve stipitatis, octosporis, 22 μ . latis; sporidiis ovatis, bilocularibus, ad septum constrictis, hyalinis, 12-14 \approx 6-7.

Hab. supra Sphagna siccitate emortua Tilff in Belgio.

- *1. **Endothia Parryi** (Farlow) Cooke in Grevillea XIII, p. 102, Do- 7464
thidea Parryi Farlow in litteris. — Stromatibus pulvinate erumpentibus; peritheciis numerosis, concentrice aggregatis, fuscis, epidermide cinnabarina cinctis; ascis lineari-clavatis, 76-110 \approx 16-20, aparaphysatis; sporidiis octonis, irregulariter subdistichis, hyalinis, 20-26 \approx 5-7, uniseptatis, ellipsoideis, subacutis, parce constrictis.

Hab. in Agave Shawii, S. W. States Americæ bor.

- *1. **D. Chorostate Gladioi** Ell. et Ev. in Journ. of Myc. 1886, p. 101. 7465
— Peritheciis matrice immersis, epidermide nigrescente tectis, maculas albas, definite limitatas, 2-3 mm. long., subinde confluentes et tum 1 cm. vel amplius longas occupantibus, circiter $\frac{1}{4}$ mm. diam., parcis, sæpe 1-2 in quaque macula, subinde etiam 6-8, ostiolo setoso donatis; ascis stipitatis, p. sp. circiter 40 \approx 6-7; sporidiis distichis, subfusoides, 7-10 \approx 2,5, binucleatis, demum 1-septatis, hyalinis.

Hab. in caulibus emortuis Gladioli, Louisiana Amer. bor. (LANGLOIS).

33. **D. Chorostate leiphæma** (Fr.) Sacc. Syll. I, p. 615. *Var. major* 2385
Brun. in Rev. Myc. 1886, p. 205. — Ascis 110-120 \approx 10-12; sporidiis 20-22 \approx 4-5. In lignis vetustis Quercus pr. Saintes Galliæ.

- *153. **D. Euporthe Chionanthi** Brun. Champ. Nouv. obs. Env. Saint. 7466
II, p. 4. — Stromate parvo, oblongo vel elongato, in ramis decorticatis effuso, nigro superficiem maculante, linea atra in lignum penetrante limitato; peritheciis nigris, gregariis, ligno immersis, globulosis, ostiolo vix erumpente donatis; ascis fusoides, 52-70 \approx 7-8, octosporis; sporidiis distichis, oblongo-fusoides, 3-septatis, «an rite?» non vel vix medio constrictis, hyalinis, 12 \approx 3.

Hab. in ramis emortuis Chionanthi virginicæ, Saintes Galliæ.

262. **D. Tetrastaga exasperans** Nitschke. — Sacc. Syll. I, pag. 686. 2614
Var. santonensis Pass. in litt. Brun. in Rev. Myc. 1886, p. 205.
— Peritheciis corticolis, in stromate pustuliformi, 2-3-aggrega-

tis, vix erumpentibus; ascis oblongo-claviformibus, sæpe basi incurvatis, attenuatis, paraphysibus gracilibus, longioribus cinctis, 50-72 \approx 8-5, octosporis; sporidiis distichis, fusoides, 1-septatis, vix constrictis, hyalinis, loculis biguttulatis, obscure septatis, 15 \approx 5.

Hab. in ramulis emortuis *Betulae* albæ, *Saintes Galliae*.

- * 5. ***Didymosphæria pardalina*** Ell. et Ev. in Journ. of Myc. 1886, 7467
p. 102. — Peritheciis 4-6 gregariis, maculis suborbicularibus, vel ellipsoideis, atris, 2-4 mm. diam. insidentibus vel confluentibus, matrice omnino immersis, $\frac{1}{2}$ mm. diam., coriaceis, ostiolo minuto, punctiformi donatis, epidermidem non elevantibus; ascis cylindraceis, 150-200 \approx 12-15; sporidiis monostichis, oblongo-cylindraceis, olivaceo-brunneis, 1-septato-constrictis, vix curvis, utrinque obtusis, 22-30 \approx 8-10.

Hab. in caulibus emortuis *Spartinae polystachyæ* in America boreali (LANGLOIS).

- * 12. ***Didymosphæria longipes*** Trabut. in litt. — Peritheciis sparsis, 7438
epidermide circa ostiolum nigrescente tectis, prominulis, globoso-conoideis, atris, nitentibus, majusculis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., vertice albo punctatis, poro pertusis; ascis cylindraceis, longissime pedicellatis, apice rotundatis, foveolatisque, pedicello subinde curvulo, vel flexuoso, 80-100 μ . longo, paraphysatis, octosporis, 180-200 \approx 12; sporidiis recte vel oblique monostichis, subinde transverse dispositis, ovoideis, septo constrictis, loculo superiore sæpe crassiore rotundatoque, inferiore vero subinde minore, subconoideo, fuliginis, 14-18 \approx 8-9.

Hab. in *Agave americana* in Algeria (TRABUT).

- * 1. ***Massariella didymopsis*** Mouton in Bull. Soc. R. Bot. Belg. 1886, 7469
p. 151. — Peritheciis sparsis, corticulis, globoso-depressis, $\frac{1}{3}$ mm. diam., peridermio nigrificato connexis; ostiolo brevi erumpente; ascis cylindraceis, breve stipitatis, paraphysibus ramulosis, obvallatis, jodii ope non cærulescentibus, octosporis, 145-160 \approx 17-20; sporidiis monostichis, ellipsoideis, uniseptatis, constrictis, loculis juxta septum guttulatis, olivaceo-fuscis, strato mucoso obvolutis, 20-25 \approx 11-12.

Hab. in ramulis *Sarothamni scoparii*, Gomzè Belgii.

- * 23. ***Amphisphæria subiculosa*** Ell. et Ev. in Journ. of Myc. 1886, 7470
p. 103. — Peritheciis superficialibus, gregariis, depresso globosis, $\frac{1}{3}$ mm. diam., brunneo-atris, rugosis, sursum sublucidis; ostiolo radiato-sulcato, non prominulo præditis, mycelio byssino, brunneo, repente, late effuso insidentibus; ascis cylindraceo-clavatis, 90-100

≈ 12-15, copiose paraphysatis; sporidiis distichis, oblongis, pallide brunneis, 1-septatis ad septum leniter constrictis, utrinque obtusis, binucleatis, 15-10 ≈ 4-5.

Hab. in Populo (poplar) decorticato, in America boreali (LANGLOIS).

- *25. **Amphisphæria lamprostoma** Pass. in litt. Martelli in Flor. Bog. 7471
p. 143. — Peritheciis sparsis, superficialibus, vel vix insculptis, subglobosis, atro-opacis, ostiolo papillato, nitido; asci cylindraneo-subclavatis; paraphysatis, octosporis, 70 ≈ 7,5; sporidiis monostichis, ellipsoideo-oblongis, medio septatis, non constrictis, loculis subæqualibus, flavo-fuscis, 10-12 ≈ 5.

Hab. in corticibus arborum annosarum, Keren Abyssiniæ (BECCARI).

- *29. **Amphisphæria Eduardi** Pass. in litt. Mart. in Fl. Bog. p. 144. — 7472
Peritheciis peridermio insidentibus, sparsis vel aggregatis, hemisphæricis, papillato-ostiolatis, carbonaceis; ascis oblongis, paraphysatis, attenuato-stipitatis, octosporis, 100 ≈ 15; sporidiis distichis fusiformibus, utrinque acutis, medio septatis et constrictis, loculis subinæqualibus, sæpe guttulatis, luteo-fuscidulis, 20-22,5 ≈ 7,5.

Hab. in corticibus lichenosis, Keren Abyssiniæ (BECCARI).

- *30. **Amphisphæria biocellata** Pass. in litt. Martelli in Flor. Bog. 7473
pag. 143. — Peritheciis ligno insculptis, ostiolo obtuso, emerso, oblongis, umbrinis; ascis cylindracois, basi angustatis, sessilibus, paraphysibus filiformibus etiam duplo superatis, octosporis, 45-60 ≈ 7,5; sporidiis oblique monostichis, ellipsoideis, ad septum non vel vix constrictis, loculis guttulatis, 10-12,5 ≈ 5, castaneo-fuscis.

Hab. in lignis nudis lichenosis, pr. Keren Abyssiniæ (BECCARI).

- *1. **Rhyncostoma Beccarianum** Pass. in litt. Martelli in For. Bog. 7474
p. 144. — Peritheciis globosis, atris, basi ligno insculptis, in rostrum cylindricum, æquilongum, rectum, apice truncatum, albo-marginatum et centro perforatum productis; ascis numerosis, cylindracois, octosporis, 60 ≈ 5; paraphysibus filiformibus, tenuibus, superantibus obvallatis; sporidiis oblique monostichis, interne fuscis, ellipsoideis, obscure septatis, 7,5 ≈ 4,5-5.

Hab. in ligno denudato sicco, Keren Abyssiniæ (BECCARI).

- *4. **Delitschia lignicola** Mouton in Bull. Soc. R. Bot. Belg. 1886, 7475
p. 151. — Peritheciis plerumque gregariis, semi vel omnino immersis, atris, globosis, $\frac{2}{3}$ mm. diam., ostiolo papillato, hirsuto; pilis fuscis, translucidis, 4 μ . crassis, septatis, obtusis; ascis cylindracois, stipitatis, apice rotundatis, paraphysibus filiformibus ob-

vallatis, octosporis, 195-210 \approx 12-15, p. sp. 165-170 \approx 12-15; sporidiis monostichis, parallelogrammo-ellipsoideis, uniseptatis, leniter constrictis, opacis, mucro non obductis.

Hab. in fragmento ligneo putrescente Tilff. Belgii.

GIBELLINA Pass. in Rev. Myc. 1886, pag. 177. *Gibellia* (ex lapsu)

Pass. Una nuova mal. Frum. (Etym. a cl. Prof. J. GIBELLI in Universitate Taurinensi Botanices Professore). — Stroma vel subiculum matrici immersum, byssoideum, atro-griseum, primitus canescens, plus minus expansum, ex hyphis tenuibus, fumoso-pellucidis intricatis, formatum. Perithecia stromate insidentia vel immersa, contigua, contextu fibroso, globosa, in collum subæquilonum, crassiusculum, rectum vel subinde flexuosum, erumpentem attenuata. Asci elongato-clavati, paraphysati, octospori. Sporidia oblonga, didyma, fuscescentia. — A genere *Neopeckia*, cui characteribus accedit, peritheciis innatis et toto habitu differt. Ab aliis generibus phæodidymis vero stromate byssoideo et peritheciis fibrosis præcipue diversum.

1. **Gibellina Cerealis** Pass. Nuova mal. Frum. pag. 5. et Rev. Myc. 7476 1886, p. 177. — Stromate intra foliorum vaginam expanso; peritheciis in series lineares digestis vel sparsis, rarius cæspitosis, subglobosis, ostiolo vaginam perforante, vix emerso, acutiusculo; ascis paraphysibus tenuibus obvallatis, diffluentibus, 100-110 \approx 22-25; sporidiis distichis, fusiformi-lanceolatis, primo hyalinis, integris dein medio septatis, non constrictis, e melleo vel avellanaceo-fuscescentibus, 22-30 \approx 7,5-9.

Hab. ad culmos languidos Tritici vulgaris quos corrumpit, Vigatto et Toschiura prope Parma Ital. bor.

1. **Leptosphæria Doliolum** (Pers.) Sacc. Syll. II, p. 14, *Var. angustispora* Pat. in Rev. Myc. 1886, p. 180. — A typo differt sporulis rufescentibus, triseptatis, minoribus, rectoribusque, 16-20 \approx 3. In caulibus emortuis Pedicularidis debilis, Yunnan Sinarum (AB. DELAVAY).

- * 3. **Leptosphæria Acanthi** Pat. in Rev. Myc. 1886, p. 181. — Peritheciis sparsis, primo epidermide tectis dein liberis, applanatis, ostiolo vix protuberante; ascis cylindræis, breve stipitatis, 106-110 \approx 9-10, paraphysibus filiformibus, fere gelatinosis, cinctis; sporidiis monostichis, fusiformibus, rectis, demum brunneo-rufis, triseptatis, ad septa parum constrictis, 20-23 \approx 6-7.

Hab. in caulibus emortuis *Adathodæ* (an potius *Acanthi*?) Yunnan Sinarum (AB. DELAVAY).

- * 16. **Leptosphaeria Ericæ** (Fr.) Malbr. in litt. *Sphaeria Ericæ* Fr. 4380
S. M. Elench. 2, pag. 101. Sacc. Syll. II, pag. 422. — Perithecia sparsa vel aggregata, fusca, primo tecta, dein erumpentia; asci clavati, longe pedicellati, 85-95 \approx 10-11 (p. sp. 60-65), paraphysati; sporidia disticha, elliptica vel oblonga, utrinque obtusa, 3-septata, loculis mediis latioribus, medio non vel vix constricta, sæpissime recta, fusca, 18-19 \approx 6-7, eguttulata.

Hab. ad truncos Callunæ vulgaris, Brionne Galliæ.

- * 65. **Leptosphaeria Magnusiana** Berl. et Sacc. — Peritheciis sparsis, 7478
minutis, 100-130 μ . diam., globosis, sursum vix papillatis, epidermide dein ostiolo perforata tectis; ascis cylindræis, basi abrupte breviterque stipitatis, sæpe curvis, crassiuscule tunicatis, apice subrotundatis, paraphysibus, filiformibus, subinde pseudo-septulatis, longioribus cinctis, 70 \approx 18, octosporis; sporidiis irregulariter distichis, vel sursum basique monostichis, oblongis vel subcylindræis, utrinque rotundatis, demum triseptatis, loculo secundo crassiore, fusco-fuligineis, 18-20 \approx 6.

Hab. in foliis exsiccatis Chamæropis humilis in insula Sicilia, socia *Sphaeropsis dothideoides*. — Affinis *L. Tritici* a qua loculo secundo paullo inflato et ascis multo majoribus differt et *L. clavosporæ* a qua sporidiis conspicue crassioribus recedit, ab utroque vero matrice.

- * 90. **Leptosphaeria Eranthem** Pat. in Rev. Myc. 1886, pag. 181. — 7479
Peritheciis sparsis, epidermide tectis, applanatis, circularibus, ostiolo conoideo donatis; ascis 63-70 \approx 8-10, paraphysibus filiformibus obvallatis; sporidiis fusiformibus, rectis vel parum curvatis, fuliginis, 16 \approx 5, quinquesepatis, raro 3-4-septatis, ad septa, præcipue ad medium, constrictis.

Hab. in pedunculis floralibus Eranthem, Yunnan Sinarum (AB. DELAVAY). — Sporidia sæpe protoplasmate longitudinaliter diviso, muriformia apparent.

- * 102. **Leptosphaeria Plumbaginis** Pat. in Rev. Myc. 1886, p. 181. — 7480
Peritheciis nigris, sparsis, globulosis, ostiolo vix emergente præditis; ascis cylindræis, breve pedicellatis, 110 \approx 15, paraphysibus filiformibus, crebre septatis cinctis; sporidiis primo linearibus, hyalinis, medio uniseptatis, dein brunneo-luteis, 8-12-septatis, medio vix constrictis, 50 \approx 6-7.

Hab. in caulibus emortuis Plumbaginis, Yunnan Sinarum (AB. DELAVAY).

117. **Leptosphaeria dolioloides** (Auersw.) Karst. — Sacc. Syll. II, p. 41. 3011

Var. inops Karst. in Hedwigia 1884, p. 4. — Peritheciis sparsis sphæroideo-depressis, epidermide tectis, dein denudatis, papilla punctiformi emergente, parte inferiore filamentis tortuosis, fuliginis vel fuscis obsessis, 0,2 mm. diam.; ascis cylindraceo-clavatis, 90-95 = 9-10, octosporis; sporidiis tristichis, fusoideo-bacillaribus, utrinque attenuatis, levissime curvulis, spurie 2-septatis, plerumque loculo tertio protuberante, flavescens, 32-42 = 4-5; paraphysibus gracilibus, subramosis, guttulis. In caulibus Anthrini silvestris Mustiala, Fennia. — *Var. Cirsii*: Karst. l. c. peritheciis appianatis, demum subumbilicatis, basi filamentis brevibus, fuscis obsessis; ascis 88-105 = 9-12; sporidiis 30 = 4. In caulibus Cirsii in Fennia.

- * 158. **Leptosphæria fallax** Berl. Fung. Mor. fasc. IV. — Peritheciis 7481
minutissimis, atris, contextu parenchymatico, globoso-conoideis, ostiolo papilliformi, pertuso donatis, tectis, dein emergentibus $\frac{1}{7}$ - $\frac{1}{8}$ mm. diam.; ascis cylindraceis vel clavato-cylindraceis, subsessilibus, paraphysatis, 60-70 = 12, octosporis; sporidiis distichis, fusoideis, 5-septatis, loculo secundo crassiore, rectis vel curvulis, palide viridulis, 28 = 4-5, utrinque rotundatis.

Hab. in ramulis exsiccatis Mori albæ, Fiumicello Italiae bor. — Fructificatione ad *L. Yulam* accedit.

- * 196. **Leptosphæria hemicypta** Oud. Contr. Flor. Myc. Pays-Bas. XI, 7482
p. 21. — Peritheciis epiphyllis, membranaceis, nigris, $\frac{1}{6}$ mm. latis, depresso globosis, semiimmersis, pro dimidia fere parte occultatis sub epidermidis portiuncula antice hiantes, postice vero e contextu non soluta; ostiolo simplici vel breviter papilloso præditis; ascis numerosis, cylindricis, 50-70 = 10-12, versus basim angustioribus, 8-sporis, partim paraphysibus filiformibus, subtilissimis, partim pseudo-paraphysibus piriformibus articulatis, longe pedicellatis, sursum in appendicem mucroniformem abeuntibus, stipatis; sporidiis distichis dilutissime fusciscentibus, fusiformibus, paulum curvatis, 5-guttulatis 06 maturitatis stadium imperfectum septis hucusque destitutis.

Hab. in foliis Caricis ejusdam, Putten Hollandia.

215. **Leptosphæria licatensis** Sacc. Syll. II, p. 70. *Var. rupefortensis* 3109
Pass. in litt. Brun. in Rev. Myc. 1886, p. 206. — Ascis paraphysatis, 75 = 12,5; sporidiis fusiformibus, 5-septatis, castaneo-brunneis, 25 = 5-6. In foliis emortuis Typhæ latifoliae in Horto botanico Rochefort Gallia.

- * 267. **Leptosphæria fungicola** Winter in Hedwigia 1886, p. 101, — 7483
Peritheciis sparsis, superficialibus (an semper?), minutissimis, glo-

bosis, poro simplici pertusis, membranaceis, atris, glabris, 100 μ . diam.; ascis obclavatis, e basi lata sursum longe attenuatis, sessilibus, 8-sporis, 30-44 \approx 9-10,5; sporidiis conglobatis, fusiformibus, inæquilateralibus vel parum curvatis, 5-septatis, cellula tertia latissima, dilutissime viridulis, 12-16 \approx 3,5.

Hab. in hymenio Sterei subpileati vetusto in insula S. Thomè Afr. occ.

2. **Melanomma fuscidulum** Sacc. Syll. II, pag. 99. *Var. fructicolum* 3224
Brun. Champ. obs. Env. Saint. II, pag. 5. — Peritheciis minutis, sparsis, atris, subsuperficialibus vel basi leniter cortice insculptis, subglobulosis vel conoideis, ostiolo vix elongato; ascis claviformibus, pedicello brevi instructis, 65 \approx 6, octosporis; sporidiis sursum submonostichis, basi monostichis, fusoideis, rectis vel parum curvatis, 3-septatis. brunneolis, 15 \approx 3.

Hab. in fructibus putrescentibus Fagi, Saintes Galliæ.

- * 61. **Melanomma setosum** Mouton in Bull. Soc. R. Bot. Belg. 1886, 7484
p. 153. — Peritheciis sparsis, globosis, contextu membranaceo, sordide brunneo, $\frac{1}{8}$ - $\frac{1}{10}$ mm. diam., ostiolo minuto, obtuso, setulis continuis, atris, 35-50 \approx 4, laxiuscule vestitis; ascis aparaphysatis (?), e basi paulo ampliata oblongis, sursum rotundatis, deorsum attenuato-stipitatis, 45-52 \approx 12-15, octosporis; sporidiis inordinatis, distichis, oblongis, rectis, 3-septatis, non vel vix constrictis, sæpius septulo longitudinali divisus, loculis guttulatis, pallide fuliginis, 13-15 \approx 5-6.

Hab. in ligno putri Populi et Betulæ, Beaufays, Dolembreux in Belgio. — Materia mucosa nuclei jodii ope rubescit. — *Var. minus* Mout. l. c. p. 154. Typo minus; peritheciis $\frac{1}{15}$ mm. diam.; ascis 35-40 \approx 10-12, setulis 20-25 \approx 3; sporidiis raro septulo longitudinali divisus, 9-10 \approx 3,5-4,5. In ligno putrescente Quercus, Beaufays Belgii.

- * 62. **Melanomma aculeatum** Mouton in Bull. Soc. R. Bot. Belg. 1886, 7485
p. 154. — *Melanommatis setoso* affine, sed setulis rectis, 70-100 \approx 5, apicem versus sensim attenuatis, ascis 50 \approx 9, sporidiis fusiformibus, subcurvulis, 5-septatis, virescentibus, 18-20 \approx 4,5, loculo tertio leviter crassiori distinguendum.

Hab. in ligno putri, Beaufays Belgii.

- * 63. **Melanomma pleiosporum** Mouton in Bull. Soc. R. Bot. Belg. 7486
1886, pag. 154, *Melanommatis setoso* affine a quo peritheciis paulo majoribus, $\frac{1}{6}$ mm. diam., subcoriaceis; ascis 62-70 \approx 15-20, sexdecensporis; sporidiis non guttulatis, 11-15 \approx 5-6 differt.

Hab. in ramulis decorticatis *Quercus*, Dolembreux Belgii.

- * 1. **Trematosphæria Beccariana** Pass. in litt. Martelli in Flor. Bog. 7487
p. 145. — Peritheciis innato-superficialibus, sparsis vel gregariis globosis, levibus, atris, ostiolo minuto, papillato; ascis oblongo-clavatis, basi attenuato-stipitatis, tandem diffluentibus, circiter 75 \approx 12,5, octosporis; sporidiis subdistichis, oblongo-fusiformibus, primo uniseptatis, dein tri-raro biseptatis, utrinque obtusis vel sub-acutis, loculo altero ex intermediis interdum tumidiore, melleo-fuscis, apicibus dilutioribus, 17,5-20 \approx 5-7,5.

Hab. in corticibus vetustis prope Keren Abyssiniæ (BECCARI). 7488

- * 2. **Trematosphæria fallax** Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 155. — Peritheciis superficialibus, subglobosis, $\frac{1}{4}$ mm. diam., atris, rugosiusculis, subcarbonaceis, ostiolo conico, obtuso, demum perforato; ascis paraphysatis, ovato-oblongis, apice late rotundatis, basi in pedicellum crassum oblique attenuatis, octosporis, 160-170 \approx 50-55; sporidiis bi-tristichis, late fusiformibus, inæquilateralibus, 8-septatis, ad septa leniter constrictis, fusco-olivaceis, loculis magnitudine disparibus, extimis pallidioribus.

Hab. in ligno secto adhuc duro, Beaufays in Belgio.

- * 21. **Sporormia Marchaliana** Mouton in Bull. Soc. R. Bot. Belg. 1886, 7489
p. 155. — Peritheciis gregariis, globosis, $\frac{1}{2}$ - $\frac{2}{3}$ mm. diam., immersis vel protuberantibus, atris, ostiolo papilliformi, crasso et brevi, contextu coriaceo; ascis anguste clavatis, stipitatis, octosporis, p. sp. 170-200 \approx 20-24; paraphysibus filiformibus, ramulosis; sporidiis superne 1-3-stichis, inferne monostichis, cylindraceo-fusiformibus, utrinque obtuse rotundatis, leniter curvulis, fuscis, 12-14-cellularibus, articulis facile secedentibus, intermediis latioribus quam longis, strato mucoso, hyalino obvolutis, 60-76 \approx 8-9.

Hab. in fimo Cuniculorum in dunis prope Heyst Belgii.

- * 22. **Sporormia affinis** Sacc. Bomm. et Rouss. in Bull. Soc. R. Bot. Belg. 1886, p. 171. — Peritheciis nigris, glabris, ovoideis, semi-immersis, 300 μ . diam., ostiolo brevi, recto, conoideo donatis; ascis cylindraceis vel leniter claviformibus, 210-246 \approx 30-36; sporidiis 8-cellularibus, sæpe curvatis, mucro late obvolutis, 71-90 \approx 12-16 sine mucro, 96 \approx 27-30 cum mucro, articulis facile dilabentibus, mediis parallelopedo-rotundatis, 9-15 \approx 12-15, extimis rotundatis, 12 \approx 10.

Hab. in fimo leporino, Genk Belgii. — Affinis *S. variabili* et *S. commutata*.

- * 6. **Thyridaria Comptoniæ** (Ell. et Ev.) Berl. et Vogl. *Diatrype Com-* 7491

ptoniæ Ell. et Ev. in Journ. of Myc. 1886, pag. 89. — Stromate erumpente, subtuberculiformi, minuto, 1-3 mm. diam., subhemisphærico v. elongato, atro, ad basim albescente; peritheciis in stromatibus minoribus singulis et in majoribus, 2-12, tunica subtili, ovoideis v. mutua pressione subangularibus, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., sursum in collum breve, cylindraceum vel subconoideum vix prominulum contractis; ascis clavatis, 75-85 μ . longis, basi stipitatis, paraphysibus copiosis cinctis, octosporis; sporidiis subfusoides, luteo-brunneis, 3-septatis, leniter curvulis, 12-15 \approx 4-5.

Hab. in caulibus emortuis, partim decorticatis *Comptoniæ asplenifoliæ*, Newfield Amer. bor.

- *5. **Metasphæria nigro-tingens** Mouton in Bull. Soc. R. Bot. Belg. 7492
1886. p. 165. — Peritheciis sparsis, erumpentibus e matrice latiuscule denigrata, compresso-conoideis, 250-300 μ . diam., vertice obtuso, poro pertuso; ascis tereti-clavulatis, 75-100 \approx 17-20, breve et crasse stipitatis, apice rotundatis, octosporis; paraphysibus ascos æquantibus; sporidiis distichis, hyalinis, fusiformibus, inæquilateralibus v. curvulis, 10-13-septatis, loculo quinto v. sexto omnium crassiore, loculis fere omnibus guttulis duobus, parallelis ornatis, 38-50 \approx 7-8.

Hab. in culmis vetustis *Moliniaæ cœruleæ*, Gomzè in Belgio.

- *13. **Metasphæria primulicola** Pat. in Rev. Myc. 1886, p. 181. — 7493
Peritheciis minutis, epidermide tectis, atris; ascis subsessilibus, cylindraceis, 70-110 \approx 13-15, aparaphysatis; sporidiis hyalinis, fusiformibus, 3-4-septatis, 40 \approx 6,5.

Hab. in caulibus emortuis *Primulæ callianthæ*, Yunnan Sinarum (AB. DELAVAY).

- *9. **Sphærulina assurgens** (Cooke) Berl. et Vogl. *Sphærella assur-* 7494
gens Cooke in Grevillea XV, p. 16. — Peritheciis sparsis, semiimmersis, globosis, demum subliberis, submembranaceis, atris opacis, pertusis; ascis clavatis, subsessilibus, aparaphysatis, octosporis; sporidiis fusoides, triseptatis, hyalinis, 20-24 \approx 4.

Hab. in frondibus vivis *Trichomanis venosi*, New Zealand Australiæ (COLENSO).

- *2. **Zignoëlla subvestita** (Ell. et Ev.) Berl. et Vogl. *Sphæria sub-* 7495
vestita Ell. et Ev. in Journ. of Myc. 1886, p. 100. — Peritheciis ligno vel cortice insidentibus, basi matrice insculptis, ovato-conoideis, $\frac{1}{6}$ mm. diam., $\frac{1}{3}$ mm. vel amplius altis, atris, rugosis, ostiolo levi, sublucido, brevi, cylindraceo vel subconoideo, late pertuso, subtruncato ornatis; ascis clavato-cylindraceis, 50 \approx 6-7, copiose

paraphysatis, basi in pedicellum gracilem desinentibus; sporidiis fusiformibus, hyalino-luteolis, vix curvulis, 3-septatis, vix ad medium constrictis, 12-15 \approx 2 $\frac{1}{2}$ -3, stipato-distichis.

Hab. in ligno sicco putri Vaccinii, Newfield Amer. bor.

- * 19. **Zignoëlla intermedia** Pass. in litt. Martelli in Flor. Bog. p. 144. 7496

— Peritheciis superficialibus, subgregariis, globosis, atris, basi setis rigidis, brevibus cinctis; ascis clavatis, basi attenuatis, paraphysibus filiformibus obvallatis, octosporis, 60-100 \approx 15-20; sporidiis bi-tristichis, fusiformibus, crebre 9-pluriseptatis, hyalinis, rectis vel curvulis, utrinque acutis, 30-33 \approx 5-6.

Hab. in ligno carioso, Keren Abyssiniæ (BECCARI). — Peritheciis setis *Zign. macrosporæ*, fructificatione vero *Z. dolichosporæ* appropinquat.

- * 40. **Zignoëlla pachyspora** Sacc. Bomm. et Rouss. in Bull. Soc. R. 7497

Bot. Belg. 1886, p. 173. — Peritheciis irregulariter gregariis, subinde confluentibus, nigris, subglobosis vel ovoideis, rugulosis, $\frac{1}{2}$ -1 $\frac{1}{2}$ mm. diam., ostiolo obtuso, parum prominulo; ascis cylindraceis, octosporis; sporidiis hyalinis, oblongo-cymbiformibus, monostichis, 3-septatis, 4-guttulatis, 25-33 \approx 9-11.

Hab. in ligno Populi submerso, Genk Belgii.

- * 1. **Karstenula dumorum** Mouton in Bull. Soc. R. Bot. Belg. 1886, 7498

p. 158, tab. IV, fig. 10. — Peritheciis gregariis, sub peridermio, pustulatim elevato nidulantibus, depressis, $\frac{1}{2}$ mm. diam., ostiolo brevior, denudato, albido-pruinoso; ascis cylindraceis, paraphysatis, brevis et crasse stipitatis, octosporis, 160-170 \approx 9-10, p. sp. 140-155; sporidiis oblongo-ellipsoideis, utrinque obtusis, vulgo 3-septatis, ad septum medium constrictis, loculis intermediis, septulo longitudinali divisus, 19-24 \approx 7,5-8,5, fuscis.

Hab. in ramis exsiccatis Pruni spinosæ et Coryli Dolembreux, Beaufays in Belgio.

- * 1. **Pleospora gummpara** Oud. in Hedwigia 1883. — Peritheciis in 7499

propinquitate acervulorum *Corynei gummpari* in corticis parenchymate libere nidulantibus, aterrimis, glabris, perfecte globosis, $\frac{1}{6}$ -1 $\frac{1}{4}$ mm. diam., contextu membranaceo, conidia pauca coryneoidæ, sessilia nonnunquam gerentibus; ascis aparaphysatis, oblongo-ovatis, curvatis, brevissime stipitatis, 90 \approx 18-20, octosporis; sporidiis distichis, triseptatis, septulo unico longitudinali, et tum 6-ocularibus, divisus, 24 \approx 12, ovoideis vel p. m. obovatis, medio ut plurimum profundius, ad altera septa minus constrictis, obscure fuscis, in eodem asco non semper omnibus rite evolutis.

Hab. in rimis grumulosis *Acaciae* cujusdam gummiferæ ex Senegal et Arabia.

- *82. **Pleospora Thyphæ** Pass. in litt. Brunaud Liste Sphærops. p. 20. 7500

— Peritheciis sparsis, punctiformibus, primo tectis dein liberis, atris; ascis clavatis, non paraphysatis, octosporis; sporidiis oblongo-ellipsoideis, subdistichis, 5-septatis, septulis longitudinalibus vix distinctis, luteis, 27-30 \approx 12-13.

Hab. in foliis emortuis *Thyphæ latifoliæ*, Rochefort Galliæ.

- *90. **Pleospora hydrophila** Karst. in Hedwigia 1883, p. 2. — 7501

Peritheciis sparsis, innatis, sphæroideis, glabris, nigris, 0-2 mm. latis, ostiolo papilliformi, distincto, erumpente; ascis oblongatis, subsessilibus, 80 \approx 22, octosporis; sporidiis, tristichis, oblongato-fusoideis, inæquilateralibus vel leviter curvulis, 5-septatis, loculo tertio protuberante septuloque longitudinali præditis, ad septa leviter constrictis, luteolo-fuscescentibus, 22-30 \approx 6-10.

Hab. in foliis *Acori Calami* putrescentibus prope Aboam, Fenniæ. — *Pl. deflectenti* affinis, forte tantum ejus subspecies vel varietas.

- *17. **Teichospora arthonioides** Pass. in litt. Martelli in Flor.-Bog. 7502

p. 145. — Peritheciis sparsis vel subgregariis, inter fibras ligneas semiimmersis, subglobosis vel e latere compressis, elongatis, carbonaceis, ostiolo obscuro; ascis numerosis, jodo immutatis, ellipticis vel obovatis, ut plurimum basi acuta sessilibus, octosporis, 30-44 \approx 20-23; sporidiis oblongo-spathulatis, subtristichis vel conglobatis, 5-septatis et muriformibus, hyalinis, 17 \approx 5, paraphysibus non visis.

Hab. in ramulis cariosis, Keren Abyssiniæ (BECCARI).

- *1. **Pleosphæria silvestris** Mouton in Bull. Soc. R. Bot. Belg. 1886, 7503

p. 158. — Peritheciis globosis, 150 μ . diam., coriaceis, atris, cum ostiolo obtuso confluentibus, setis concoloribus, 50-10 \approx 3 $\frac{1}{2}$ -5, undique hirsutis; ascis oblongis vel ovoideo-oblongis, 70 \approx 20, octosporis, parce paraphysatis; sporidiis elliptico-oblongis, apicibus rotundato-obtusis, plerumque 1-septatis, non constrictis, septulis longitudinalibus, uniseriatis, divisis, olivaceo-fuligineis, 17-20 \approx 8.

Hab. in ramis sectis et decorticatis *Pini silvestris*, Beauvais in Belgio. — *P. pilosellæ* affinis a qua peritheciis minoribus sporidiorumque fabrica distinguitur.

- *2. **Pleosphæria pulveracea** Mouton in Bull. Soc. Bot. R. Belg. 1886, 7504

p. 159. — Peritheciis subglobosis, $\frac{1}{4}$ mm. diam., atris, pilis concoloribus, rectiusculis, septatis, 70-100 \approx 4,5 vestitis, minute papil-

latis; ascis tereti-clavatis, paraphysatis, breve stipitatis, superne rotundatis, octosporis, 95-115 \approx 15-17; sporidiis submonostichis, obovato-oblongis, 5-7-septatis, longitudinaliter subinde incomplete uniseriato-divisis, ad septum medium constrictulis, pallide fuliginis, 19-22 \approx 8,5-9.

Hab. in ligno secto adhuc duro *Quercus*, Beaufays in Belgio.

6. **Ophiobolus collapsus** Ell. et Sacc. Syll. II, pag. 339. *Var. moricola* Berl. Fungi Mor. Fasc. IV. — Peritheciis globoso-conoideis, papillatis, dein collapsis, atris, primitus tectis, dein epidermide secedente liberis, superficialibusque, minutis, $\frac{1}{4}$ mm. diam., setis paucis fuliginis basi cinctis; ascis cylindraceo-clavatis, sessilibus, 100-110 \approx 8, sursum rotundatis; sporidiis cylindraceis, rectis vel curvis, 90 \approx 3, inasco dilutissime flaveolis, 11-13-pseudo-septatis, loculo medio vix incrassato. 4022

Hab. in ramulis emortuis, decorticatis *Mori* albæ, Carpesica Italiae borealis.

- *25. **Ophiobolus Antenoreus** Berl. Fungi Mor. Fasc. IV. — Peritheciis globosis, sursum in collum longiusculum, apice pertusum desinentibus, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., tectis, ostiolo non rostellato tantum prominulo, atris; ascis longe cylindraceis, rectis vel curvis, sessilibus, 180-200 \approx 4, octosporis; sporidiis filiformibus, 10-15-guttulatis, 180-200 \approx 1 $\frac{1}{2}$, hyalinis vel pallidissime luteis. 7505

Hab. in ramulis emortuis, putridis *Mori* albæ in Horto botanico Patavino Ital. bor. — Affinis *Oph. Hesperidis*, a quo sporidiis longioribus, guttulatibus differt. Ab aliis speciebus vero magnitudine ascorum sporidiorumque præcipue distinguendus.

- CYLINDRINA** Pat. in Soc. Bot. Franc. 1886, p. 155 (Ety. a *cylindros*). — Perithecia simplicia, subcornea, erecta, cylindrica, vertice truncata cupulataque, poro pertusa. Asci cylindracei, valde elongati. Sporidia filiformia, continua. Paraphyses numerosissimæ, simplices, tenues.

1. **Cylindrina Delavayi** Pat. in Soc. Bot. France, 1886, pag. 155. — Peritheciis sparsis, 1-2 mm. altis, nigris, cylindraceis, levibus, apice truncato-cupulatis, ostiolo circulari, subinde late pertuso; ascis longissimis, 300-350 \approx 6-7, paraphysibus linearibus, glacialibus obvalatis; sporidiis filiformibus, continuis, ascos æquantibus. 7506

Hab. in foliis emortuis *Liparis liliifloræ*, Yunnan Sinarum.

- *23. **Nectriella Chamæropis** Oud. Contr. Fl. Myc. Pays-Bas XI, p. 24. — Peritheciis ad superficiem substrati pulvinuli orientibus, primitus sub hyphis albis, conidiferis, *Penicillii* ejusdam absconditis, 7507

postea vero liberatis, planeque conspicuis, pallide aurantiacis, materia glutinosa inter se et cum substrato cohærentibus, $\frac{1}{5}$ - $\frac{1}{4}$ mm. diam., subglobosis, glabris, subtilissime papillatis, tandem ostiolo simplici apertis; ascis pedicellatis, numerosissimis, anguste cylindraceis, sursum rotundatis, $50 \approx 5$, paraphysibus numerosissimis stipatis; sporidiis monostichis, hyalinis, continuis, oblongis, $9,6 \approx 3,5$, utrinque rotundatis, protoplasmate exilissime granulato repletis.

Hab. in ramulis floralibus Chamæropis in Horto Botanico Amsterdam Hollandiæ.

- * 1. **Nectria Gorostankiniana** Wahrlich in Bot. Zeit. 1886, p. 503, 7508
tab. III, fig. 22 et 25. — Peritheciis intense rubris, piriformibus, furfuraceis, contextu celluloso, laxo, 0,32 mm. altis, 0,26 mm. latis; sporidiis ovoideo-elongatis, uniseptatis, ad septum constrictis, utrinque acutiusculis, pluriguttulatis, $12-15 \approx 4-5$ hyalinis.

Hab. in Vanda tricolore culta in Germania.

- * 2. **Nectria Vandæ** Wahrlich in Bot. Zeit. 1886, pag. 503, tab. III, 7509
fig. 23, 24. — Peritheciis rubris, piriformibus, furfuraceis, ostiolo nudo, acutiusculo, conoideo præditis; ascis...; sporidiis late ovoideis, utrinque rotundatis, vel uno apice obtuse acuminatis, uniseptato-constrictis, guttulis duabus majoribus atque aliis minoribus repletis, $8-10 \approx 4,4$, hyalinis.

Hab. in Vanda suavi culta in Germania.

- * 3. **Nectria cinericola** Quel. 14 Suppl. p. 10, tab. VIII, fig. 29. — 7510
Peritheciis numerosis, sphæroideis, 300-400 mm. diam., subtiliter granulosis, rubro-aurantiacis, mycelio tenui, aracnoso, albo insidentibus; ostiolo leniter papillato, dein fimbriato; sporidiis ellipsoideis, 14μ . longis, septatis, 2-4-guttulatis, hyalinis.

Hab. inter algas ad cinerem in areis combustis Jura.

- * 1. **Cordyceps Doassansii** Pat. Tab. An. Fung. fasc. V, pag. 213, 7511
fig. 494. — Capitulo 5-8 mm. crasso, brevi, ovoideo, villosa, albo, ostiolis valde prominentibus luteo-maculato; stipite brevissimo, vel 1 cm. alto, tomentosum, albo, basi mycelio albo, villosa cincto; ascis cylindraceis, 8-sporis; sporidiis filiformibus, elongatis, $90 \approx 45$, tenuissimis, continuis; paraphysibus nullis.

Hab. in chrysalidibus Lepidopterorum, Les Eaux Bonnes Galliæ (Doassans). — In eodem mycelio etiam conidia in globulum floccosum, stipite gracili, brunneo, 5-8 mm. longo suffultum collecta, sphæroidea, $4,5-2 \mu$. diam., hyalina.

- * 2. **Cordyceps Lioydii** Fawcett On an Ent. Fungus, p. 316 (cum figura). 7512
— Stromatibus solitariis, pallide ochroleucis, ex articulo enatis,

capitulo peritheciigero depresso-globoso, altitudine circ. 0,7 mm., latitudine circ. 1,5 mm.; stipite filiformi, infra medium autem in-crassato, 4,5 mm. alto, ad basim apicemque 0,25 mm. lat., infra medium 0,5 mm. crasso; peritheciis stromate immersis, protracto-ovatis; ascis longissimis, cylindraceutis, apice glandiformibus, circiter 160 μ . longis, aparaphysatis; sporidiis filiformibus, asci longitudinem æquantibus, hyalinis, (immaturis visis).

Hab. in corporæ formicæ atræ (Camponoti atricipitis) prope flumen Puruni in Guiana.

- *3. **Cordyceps Odyneri** Quel. 14 Suppl. p. 10, tab. XII, fig. 28. — 7513
Stipite gracili, 10-20 mm. longo pruinoso, griseo-pallido, ex mycelio candido orto, capitulo ovoideo, griseo-olivaceo; peritheciis ovoideo-conicis, semiliberis, parvis; sporidiis capillaribus, dein septatis.

Hab. in larva quadam Hymenopteri e genere Odyneri in corticibus, Morvam in Vogesis.

- *1. **Sphæroderma Hulseboschi** Oud. Contr. Flor. Myc. Pays-Bas XI, 7514 pag. 23. — Peritheciis superficialibus, $\frac{7}{10}$ mm. latis, subglobosis, ostiolo brevi, obtuse conico, dilutissime ochraceis, hyalinis, e cellulis parenchymatosis contextis, tenuibus subtilibus; ascis fasciculatis, piriformibus, antice late rotundatis, $50 \approx 25$; sporidiis 8, tristichis, limoniformibus (i. e. ellipticis et utrinque apiculatis), primitus hyalinis (achromis), denique subolivaceis, apiculis diu pallidioribus, $19-21 \approx 11-12$.

Hab. in fimo Cuniculorum in Hollandia. — Differt a *S. theleboloide* subiculo nullo, ascis 8-sporis. A *S. aculeato* peritheciis sursum in ostiolum conicum contractis, amplioribus, porro ascis sporidiisque majoribus. A *S. episphæria* peritheciis majoribus, ascis vero et sporidiis minoribus neque minus substrato diverso. A *S. fimicolo* tandem ascis octosporis, sporidiisque distincte limoniformibus distinguitur.

COSCINARIA Ell. et Ev. in Journ. of Myc. 1886, p. 88 (Etym. *coscinon* cribrum). — Perithecia membranacea, sursum multi-perforata. Asci et sporidia linearia.

- *1. **Coscinaria Langloisii** Ell. et Ev. in Journ. of Myc. 1886, p. 88. 7515
— Peritheciis tuberculiformibus, erumpentibus, $\frac{1}{3}-\frac{1}{2}$ mm. diam., pallide carneo-coloratis hudis, siccitate vix atris, epidermide rupta cinctis, contextu celluloso, convexis vel sursum vix applanatis et 25-30 poris minutis, rotundis (ostiolis?) pertusis; ascis linearibus,

150-200 \approx 5; paraphysibus (?); sporidiis filiformibus, multinucleatis, longitudinem ascorum fere æquantibus, 1 μ . crassis, subhyalinis.

Hab. in caulibus emortuis Vignæ luteolæ in Amer. bor. (LANGLOIS).

- * 1. **Dothidella frigida** Rostrup Svampe fra fiermarken pag. 233. — 7516
Stromatibus epidermide inuatis, effusis forma variis, atris, nitidis, rugulosis; ascis ovoideo-oblongis, crasse tunicatis, sessilibus, 20-25 μ . longis, circit. 9 μ . crassis; sporidiis octonis, conglobatis, ovoideo-oblongis, prope basim 1-septatis, loculo superiore biguttulato, 9 \approx 3.

Hab. in caulibus aridis Phææ frigidæ Sakkabani Island.

PYRENOTHECA Pat. in Soc. Bot. France 1886, p. 155 (Etym. a *pyren* nucleus et *theca* ascus). — Stroma receptacula rotunda, nigra, carbonacea, contextu homogeneo gerens. Receptacula intus loculis in series plures irregulariter dispositis, quoque ascum continente, farcta. Asci globulosi vel ovoidei, sessiles, octospori aparaphysati. Sporidia ovoidea, septato-muriformia, hyalina.

1. **Pyrenotheca yunannensis** Pat. in Soc. Bot. France, 1886, p. 155. — 7517
Stromatibus rotundatis vel elongatis, usque 1 cm. longis, 1/2 cm. latis, brunneo-nigris, tuberculosis; tuberculis contextu brunneo, extus densiore, intus laxiore, loculis indheiscentibus, quoque ascum continente farctis; ascis ovoideis vel globulosis, 30-50 \approx 30, tunica crassa præditis; sporidiis octonis, ovoideis, septato-muriformibus, 23 \approx 10, hyalinis.

Hab. in cortice vivo Buxi speciei B. sempervirenti affinis, Yunnan Sinarum.

- * 1. **Lophiosphæra intricata** (Nitschke) Berl. et Vogl. 1) *Lophiostoma* 7518
intricatum Nitsch. in Lehmann Syst. Bearb. Pyren. *Loph.* p. 84, fig. 54. — Ascis subcylindraceis, 80-90 \approx 11-13; sporidiis bicellularibus, loculis plerumque piriformibus, 19-26 \approx 6-7, anisomeris.

Hab. in cortice ramorum Salicis prope Münster (NITSCHKE). — Affinis, ut videtur, *L. schizostomati*.

- * 2. **Lophiosphæra Beckhausii** (Nitsch.) Berl. et Vogl. *Lophiostoma* 7519
Beckhausii Nitsch. in Lehmann Syst. Bearb. Pyr. *Loph.* p. 64,

1) Opere nostro jam sub prælo, pervenit monographia Lophiostomearum cl. F. Lehmann, ex herbario Nitschkiano fere omnino orta. Multæ species novæ exhibentur, iconibus analyticis illustratæ, sed ex eo quod cl. auctor litteratura nuperiore non est usus, species ejusdem plures jam oditis forte subjungendæ essent; temporis angustia revisionem criticam facere nequivimus. hinc specierum omnium Lehmannianarum notas essentielles tantum retulimus; additis, observationibus nonnullis de earum affinitate.

fig. 42. — Sporidiis acute fusiformibus, uniseptatis, hyalinis, $45 \approx 9$, guttulatis.

Hab. in ligno fagineo Münster (NITSCHKE).

9. **Lophiosphæra heterostoma** (Ell. et Ev.) Berl. et Vogl. *Lophiostoma heterostomum* Ell. et Ev. in Journ. of Myc. 1886, p. 99. 7520
— Peritheciis erumpentibus, sparsis vel subgregariis, $1\frac{1}{2}-\frac{3}{4}$ mm. diam., depressis, sphæroideis, basi ligno insculptis, superne emergentibus; ostiolo lato compresso peritheci latitudinem fere æquante, demum deciduo et perithecium poro rotundo pertusum relinquente; ascis clavato-cylindræis, sursum rotundatis, basi in pedicellum gracilem attenuatis, 70-80 \approx 6-7, copiose paraphysatis, octosporis; sporidiis fusoides, uniseptatis, hyalinis, vix curvulis, appendiculis 8-10 μ . longis ornatis, 18-20 \approx 4,5-5, primo 3-4-nucleatis, demum muticis et tum medio constrictis, utrinque rotundatis, fusoides oblongis, sæpeque luteo-brunneis.

Hab. in discis dolii vinarii quercini Louisiana in Amer. boreali (LANGLOIS). — Matrix fungillo invasa rubescit. — Differt ab affine *L. pulveracea* peritheciis latioribus ostioloque deciduo.

1. **Lophiotrema simile** (Nit.) Berl. et V. *Lophiostoma simile* Nitschke in Lehm. Pyr. *Loph.* pag. 65, fig. 43 (nec Fuck.). — Ascis anguste clavatis, 140-160 \approx 21-24, sporidiis fusiformibus, utrinque acutis vel obtusiusculis, plerumque 7-septatis, rarius 5-6-septatis, 44-51 \approx 8-10, hyalinis. 7521

Hab. in ligno salicino putri in Germania.

2. **Lophiotrema Notarisii** (Nitsch.) Berl. et Vogl. *Lophiostoma Notarisii* Nitsch. in Lehm. Syst. Bearb. *Loph.* pag. 31. — Ascis plus minusve cylindræis, vel anguste clavatis, 90-150 \approx 9-12; sporidiis fusiformibus, plerumque acutis, 3-septatis, hyalinis, raro fuscescentibus, 20-27 \approx 4-6. 7522

Hab. in caulibus herbarum Münster (NITSCHKE). — «Affine *L. vagabundo*».

3. **Lophiotrema leucosporum** (Nitsch.) Berl. et Vogl. *Lophiostoma leucosporum* Nitsch. in Lehm. Syst. Bearb. *Loph.* pag. 27, fig. 6. 7523
— Ascis anguste cylindræis, 90-110 \approx 9; sporidiis anguste fusiformibus, appendiculatis, hyalinis, 26-27 \approx 5-6; appendicula 4 μ . longa.

Hab. in Sio latifolio, Münster (NITSCHKE).

4. **Lophiotrema Cookei** (Nitsch.) Berl. et Vogl. *Lophiostoma Cookei* Nitsch. in Lehm. *Loph.* pag. 66, fig. 2. — Ascis oblongo-cla- 7524

vatis, 100-110 \approx 14-15; sporidiis fusiformibus, 3-5-septatis, appendiculatis, 35-40 \approx 7-9, appendicula 8 μ . longa.

Hab. in ramis Ulicis europæi, Münster (NITSCHKE). — « *L. angustilabro* propinquum ».

12. **Lophiotrema præmorsum** (Lasch.) Sacc. Syll. II, pag. 681. *Var.* 5427

Androsæmi Bruun. in Rev. Myc. 1886, p. 206. — Sporidiis fusoides, curvatis, vel subtortuosis, hyalinis, 4-guttulatis, 38-40 \approx 7-3, utrinque appendicula minuta ornatis. In caulibus emortuis *Androsæmi officinalis*, Saintes Galliæ.

* 8. **Lophiostoma subcollapsum** Ell. et Ev. in Journ. of Myc. p. 100. 7525

— Peritheciis cartilagineis, membranaceis, atris globosis, $\frac{3}{4}$ -1 mm. diam., cortice immersis, epidermide vix elevata, nigrescente, ostiolo papilliformi, perforata tectis, demum collapsis; ascis clavato-cylindraceis, circiter 150 \approx 12, copiose paraphysatis; sporidiis oblique monostichis, vel sursum subdistichis, oblongo-ellipsoideis, 20-26 \approx 8-10, vel irregulariter ellipsoideis, 20-22 \approx 12-15, primo hyalinis demum brunneis, 3-7-septatis, ad septa non constrictis.

Hab. in cortice ramorum *Nyssæ multifloræ*, Newfield Americæ borealis. — Ostiolum fere inconspicuum et vix prominulum. Sporidia subinde loculis uno vel duobus, septo longitudinali divisa.

5. **Lophiostoma demissum** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 7526

pag. 35, fig. 20. — Ascis anguste clavatis vel subcylindraceis, 70 \approx 9-11; sporidiis fusiformibus, v. subcylindraceis, 3-septatis, fuscis 13-18 \approx 4,5-6.

Hab. in Plantagine majori prope Münster (NITSCHKE).

6. **Lophiostoma cultum** Nitschke in Lehm. Syst. Bearb. Pyr. *Loph.* 7527

p. 80, fig. 23. — Ascis subcylindricis, 90-105 \approx 10; sporidiis subcylindraceis, rotundatis vel fusiformibus, obtusis vel acutiusculis, tandem 4-cellularibus, dilute fuscescentibus, 22-24 \approx 5-6.

Hab. in caulibus *Euphorbiæ dulcis*, Münster (NITSCHKE).

7. **Lophiostoma isomerum** Nitschke in Lehm. Syst. Bearb. Pyr. *Loph.* 7528

p. 86, fig. 57. — Ascis cylindraceis vel cylindraceo-clavatis 100-135 \approx 13-15; sporidiis cylindraceis vel subcylindraceis, utrinque rotundatis, 3-septatis, obscure fuscis, cellulis extimis pallidioribus, 21-24 \approx 9-10.

Hab. in cortice Salicis prope Münster (NITSCHKE). — « Affine *L. dumeti* ».

8. **Lophiostoma rubicolum** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 7529

pag. 58, fig. 39. *Loph. diminuens* Fuck. Symb. p. 156. — Ascis

oblongo-clavatis, $78 \approx 8$; sporidiis obtuse fusiformibus, 3-septatis, $16 \approx 4$, parum torulosis, flavescentibus.

Hab. in caulibus emortuis Rubi fruticosi prope Eberbach (NITSCHKE). — «Affine *L. argentino* et *L. quadrinucleato*».

9. **Lophiostoma Berberidis** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 7530
pag. 54, fig. 34. — Ascis clavatis, $120 \approx 16$; sporidiis ellipsoideis vel fusiformibus, 3-raro, 4-5-septatis, fuscis, $24-27 \approx 7-8$.

Hab. in ramis Berberidis vulgaris prope Arnstadt in Thuringia (NITSCHKE).

10. **Lophiostoma Ligustri** Nitsch. in Lehm. Bearb. Syst. Pyr. *Loph.* 7531
pag. 55, fig. 36. — Ascis clavatis, $85-90 \approx 9$; sporidiis anguste fusiformibus, 3-5-septatis, $22-25 \approx 3-1$, subhyalinis vel pallide flavescensibus.

Hab. in ramulis Ligustri prope Münster (NITSCHKE).

11. **Lophiostoma vexans** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 7532
pag. 89, fig. 60. — Ascis cylindricis vel subcylindricis, raro subclavatis, $130-160 \approx 16-24$; sporidiis fusiformibus vel subcylindraceis, 3-5-septatis, fuscis, $35-45 \approx 9-10$.

Hab. in Salice prope Münster (NITSCHKE). — «Affine *L. macrostomo*».

12. **Lophiostoma anisomerum** Nitsch. in Lehm. Syst. Bearb. Pyr. 7533
Loph. pag. 86, fig. 56. — Ascis cylindricis vel subclavatis, $100-130 \approx 11-13$; sporidiis subcylindraceis vel ovoideis, 3-5-septatis, rarius muriformibus, plerumque didymis ac nonnihil anisomeris, $20-28 \approx 8-9$, fuscis.

Hab. in cortice salicino prope Münsters (NITSCHKE). — «An *Lophidium?*»

13. **Lophiostoma Galeopsidis** Nitsch. in Lehmann Syst. Bearb. Pyren. 7534
Loph. pag. 40, fig. 13. — Ascis plerumque late clavatis, $90-105 \approx 15$; sporidiis subcylindraceis vel fusoides, $20-27 \approx 6-8$, obscure fuscis, interdum guttulatis.

Hab. in caulibus Galeopsidis cujusdam prope Münster (NITSCHKE).

14. **Lophiostoma Spartii** Nitsch. in Lehm. Syst. Bearb. Pyren. *Loph.* 7535
pag. 36, fig. 21; ascis anguste vel latiuscule clavatis vel subcylindricis, $60-80 \approx 9-10$; sporidiis fusiformibus, acutis vel obtusiusculis, 3-raro 5-septatis, fuscis, $21-24 \approx 4,5-5$.

Hab. in capsulis Sarrhamni scoparii prope Münster (NITSCHKE).

15. **Lophiostoma biforme** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 7536

pag. 69, fig. 47. — Ascis clavatis, 160–24; sporidiis biformibus, α subcylindraceis, 3-septatis, distincte torulosis, dilute fuscis, 36 \approx 8–10; β fusiformibus, utrinque obtusiusculis, plerumque 5-raro 3-septatis, pallide fuscis, cellulis apicalibus, subhyalinis, 30–46 \approx 9–11.

Hab. in ligno quercino putri in Germania. — Sporidia in ascis non visa; verisimiliter duæ species.

16. **Lophiostoma Galii** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 7537
pag. 41, fig. 14. — Ascis cylindraceo-clavatis, 100 \approx 11; sporidiis fusiformibus, obtusis vel rarius obtusiusculis, sæpe inæquilateralibus, 5-septatis, tandem fuscis, 20–30 \approx 5–7.

Hab. in caulibus Galii Molluginis pr. Münster (NITSCHKE). — «An cum *L. caulium* comparandum?»

17. **Lophiostoma Dipsaci** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 7538
pag. 40, fig. 12. — Ascis oblongo- vel anguste clavatis, 90–120 11–13; sporidiis fusiformibus, acutis, vel obtusiusculis, 5-septatis, flavis, 24–31 \approx 5–6.

Hab. in Dipsaci silvestris caulibus emortuis Münster (NITSCHKE). — «Affine videtur *L. Galii*».

18. **Lophiostoma prominens** Nitsch. in Lehm. Syst. Bearb. Pyren. 7539
Loph. pag. 38, fig. 10. — Ascis oblongo-clavatis, 93–100 \approx 12–13; sporidiis clavatis, parte superiore crassiori, 5-rarissime 3-septatis, flavescentibus, 22–30 \approx 4–5.

Hab. in caulibus Lychnidis dioicæ pr. Münster (NITSCHKE).

19. **Lophiostoma palustre** Nitsch. in Lehm. Syst. Bearb. der. Pyr. 7540
Loph. pag. 45, fig. 19. — Ascis clavatis, 75–90 \approx 11–13; sporidiis anguste fusiformibus, 5-septatis, loculis mediis sæpe nonnihil turgidioribus, 21–30 \approx 5–6, obscure fuscis.

Hab. in culmis Phragmitis (?) in Germania. — «Cum *L. perverso* comparandum».

20. **Lophiostoma parvulum** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 7511
pag. 42, fig. 15. — Ascis latiuscule vel rarius oblongo-clavatis, 100–120 \approx 12–14; sporidiis anguste fusiformibus vel subcylindraceis, dein 3-septatis, 6-guttulatis et demum 5-septatis, 24–27 \approx 6, pallide v. sordide flavescentibus.

Hab. in caulibus Sedi maximi prope Münster (NITSCHKE). — «Affine videtur *L. caulium*».

21. **Lophiostoma Phragmitis** Nitsch. in Lehmann Syst. Bearb. Pyr. 7542
Loph. pag. 44, fig. 18. — Ascis latiuscule vel oblongo-clavatis, 110–120 \approx 14–15; sporidiis clavatis, parte superiore crassiore, ob-

tusioaque, 5-septatis, primo pallide flavescentibus, dein fuscis, 27
 ≈ 6-7.

Hab. in culmis Phragmitis communis prope Schwerin
 (NITSCHKE).

22. **Lophiostoma Sauteri** Nitsch. in Lehm. Syst. Bearb. Pyren. *Loph.* 7543
 pag. 67, fig. 45. — Ascis cylindraceutis vel anguste elliptico-rotun-
 datis, rarius subclavatis, 78 ≈ 10; sporidiis fusiformibus, obtusius-
 culis, 5-septatis, fuscis, 21 ≈ 6-7.

Hab. in Berberide prope Steyr Germ. (NITSCHKE),

23. **Lophiostoma nigricans** Nitsch. ad Otth. Lehm. Syst. Bearb. Pyr. 7544
Loph. pag. 71, fig. 49. — Ascis anguste clavatis, subrectis, 100-
 140 ≈ 16; sporidiis fusiformibus, 5-7-septatis, medio constrictis,
 36-42 ≈ 7-8, pallide fuscis.

Hab. in ligno salicino putri in Germania. — « An cum *L.*
Balsamiano comparandum? »

24. **Lophiostoma Nitschkei** Lehm. Syst. Bearb. Pyr. *Loph.* pag. 72, 7545
 fig. 49. — Ascis non visis; sporidiis polymorphis; typice fusiformi-
 bus, rarius ellipsoideis, 7-septatis, tandem fuscis; 33-35 ≈ 6-10.

Hab. in ramis Aceris campestris prope Münster.

25. **Lophiostoma Typhæ** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* 7546
 pag. 26, fig. 5. — Ascis oblongo-clavatis, 90-110 ≈ 10-11, p. sp.
 70-90; sporidiis anguste fusiformibus, obtusiusculis, raro appen-
 diculatis, fuscis, 20-27 ≈ 5-7.

Hab. in culmis Typhæ, Münster (NITSCHKE). — « Affine *L.*
vaganti ».

27. **Lophiostoma commutatum** Nitsch. in Lehm. Syst. Bearb. Pyr. 7547
Loph. p. 37, fig. 22. — Ascis anguste vel latiuscule clavatis vel
 subcylindraceutis, 80-85 ≈ 10-12; sporidiis late obtuseque ellipsoi-
 deis, fusiformibus vel subcylindraceutis, interdum nonnihil apiculatis,
 sæpe subobovatis, 3- rarius 4-5-septatis, fuscis, 16-19 ≈ 6-7.

Hab. in Ononide spinosa, Münster (NITSCHKE).

28. **Lophiostoma Ulicis** Nitsch. in Lehm. Syst. Bearb. der Pyr. *Loph.* 7548
 pag. 21, tab. I, fig. 1. — Ascis clavatis, 80-90 ≈ 11; sporidiis fu-
 siformibus, appendiculatis, curvatis, 5-7-septatis, fuscis, 30-32 ≈ 5-6
 μ. longis.

Hab. in ramis Ulicis europæi, Münster (NITSCHKE). — Af-
 fine *L. intermedio*.

29. **Lophiostoma Diaporthe** Nitsch. in Lehm. Syst. Bearb. *Loph.* p. 7549
 28, fig. 8. — Ascis oblongo-clavatis, 80-95 ≈ 11-15; sporidiis an-

guste fusoides vel subcylindraceis, 1-septatis, fuscis, 25-30 \approx 5-6, appendiculatis; appendiculis 4-5 μ . longis.

Hab. in caulibus *Pastinacæ sativæ*, Beckhaus (NITSCHKE).

30. **Lophiostoma Lappæ** Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* p. 26, fig. 4. — Ascis cylindrico-clavatis 112 \approx 14, p. sp. 96; sporidiis anguste fusiformibus vel subcylindricis, dilute fuscescentibus vel fuscis, appendiculatis, 20-32 \approx 5-6, appendicula 8 μ . longa. 7550

Hab. in caulibus *Lappæ* prope Schwerin Germ. (NITSCHKE).

«*L. simillimō* proximum».

32. **Lophidium brachystomum** (Nitsch.) Berl. et Vogl. *Lophiostoma* 7551
brachystomum Nitsch. in Lehm. Syst. Bearb. Pyren. *Loph.* p. 88, fig. 59. — Ascis cylindraceis, 130-180 \approx 14-16; sporidiis plerumque ovoideis, 5-raro 7-septatis, muriformibus, 28-36 \approx 11-12, hyalinis.

Hab. in cortice putrescente *Populi* et *Salicis* in Germania.

— «Affine videtur *L. curto*».

33. **Lophidium Crouanii** (Nitsch.) Berl. et Vogl. *Lophiostoma Crouan-* 7552
ni Nitsch. in Lehm. Syst. Bearb. Pyr. *Loph.* pag. 53, fig. 53, *Lophium caulium* Crouan Finist. pag. 29. — Ascis cylindraceis draceis, 90-100 \approx 10; sporidiis oblongis vel subcylindraceis, 5-7-septatis, sæpe parum muriformibus, 23-30 \approx 8-10, fuscis.

Hab. in caulibus *Aquilegiæ*, Münster (NITSCHKE).

- *2. **Schizothyrium Rhododendri** Pat. in Rev. Myc. 1886, p. 180. — 7553
Orbiculare, applanatum, 2-3 mm. longum, 1-2 mm., latum, ex epidermide longitudinaliter rupta vix prominens; ascis octosporis, 120-150 \approx 13-15; sporidiis monostichis, ovoideis, levibus, hyalinis, continuis, 13-16 \approx 7-10; paraphysibus copiosissimis, filiformibus, flexuosis, ascos superantibus.

Hab. in cortice *Rhododendri*, Yunnan Sinarum (AB. DELAVAY). 7554

2. **Glonium cænobiticum** Duby in herb. Rehm Rev. Hyst. Dub. p. 37. — Peritheciis sessilibus, non immersis, gregariis, linearibus, obtusis, rectis, rima longitudinali divisis, parallelis, 3 mm. longis, 1½ mm. lat.; ascis crassis, clavato-ellipsoideis, 60 \approx 15; sporidiis octonis, distichis, clavatis, acutiuseculis, hyalinis, bicellularibus, mucosubtiliter obvolutis, 15 \approx 5-6; paraphysibus sursum ramosis, epithecium brunneum formantibus.

Hab. in *Jasmino fruticante*, S. Antoine de Galamus Pyr. or.

4. **Hysterium Notarisianum** Rehm Rev. Hyst. Dub. pag. 21, *Hyste-* 7555
rium spec. Duby in herb. — Peritheciis gregariis; primo fere omnino immersis dein sessilibus, elongatis, obtusis, depressis, rima

profunda, subtili signatis, longitudinaliter striatis, 2-2,5 mm. longis, 1 mm. lat.; ascis clavatis, 90 \approx 10; sporidiis octonis, distichis, fusoidis, rectis, luteo-brunneis, 2-4-6-7-cellularibus, granulosis, cellulis duabus superioribus latoribus, 15-21 \approx 6.

Hab. ad truncos quercinos in montanis in Sardinia (DE NOTARIS). — Loculus major subinde a septo longitudinaliter diviso videtur.

1. **Trybliella Steigeri** (Duby) Rehm Revis. Hyst. pag. 29, *Hysterium Steigeri* Duby in herb. — Peritheciis erumpentibus, primitus hysteroideis, nigris, 3 mm. longis, 1 mm. lat., dein subcurvatis, sæpe stelleformibus, 8 mm. long. 1-3 mm. lat., labiis primitus arcte conniventibus, longitudinaliter haud transverse striatulis; ascis cylindraceis octosporis; sporidiis monostichis, oblongis, obtusis, rectis vel subcurvatis haud constrictis, 3-4-septatis, fuscis, 30 \approx 10-12, paraphysibus filiformibus (?) apice septatis et subfuscis, 3-5 μ .

Hab. ad cortices in vicinia urbis Paranagua Brasilæ.

3. **Gloniella pyrenaica** Rehm Rev. Hyst. Dub. p. 34. — Peritheciis in maculis ligni denigratis immersis, sparsis, rectis, 2-3 mm. longis, $\frac{1}{4}$ mm. latis; ascis clavatis, 70 \approx 15; sporidiis octonis, distichis, fusiformibus, subacutis et subcurvatis, hyalinis, 4-cellularibus, 18 \approx 5; paraphysibus ramosis, fuscidulis.

Hab. ad Loniceram Periclymenum, S. Antoine de Galamus Pyren. or.

7. **Gloniella Stenogramma** (Dur. et Mont.) Rehm Rev. Hyst. Dub. pag. 5, *Hysterium Stenogramma* Duby in herb. Sacc. Syll. II, p. 747. — Sporidia clavata, hyalina, recta, obtusa, 3-septata, 10-12 \approx 4-4,5; paraphyses ramosæ, ascos obovatos, sessiles, crasse tunicatos, 36 \approx 24 obvallantes.

7. **Gloniopsis decipiens** De Not. — Sacc. Syll. II, p. 775. *Var. Cisti* Rehm Rev. Hyst. Dub. p. 13. — Peritheciis subsessilibus, elongatis, subobtusis, rectis vel subcurvatis, atris, medio subtiliter rimosis, 1-2 $\frac{1}{2}$ mm. longis, $\frac{1}{2}$ mm. lat.; ascis clavatis, crassis, octosporis, 90 \approx 15; sporidiis distichis, ellipsoideis, medio subconstrictis, transverse 5-septatis, cellulis mediis, imprimis superioris sporidii partis, simpliciter horizontaliter divisis, hyalinis, 18-20 \approx 6-7; paraphysibus ramosis, superne fuscis.

Hab. ad truncos emortuos *Cisti ladanifolii* prope Olten Helv.

10. **Gloniopsis levantica** Rehm Rev. Hyst. Dub. p. 6, *Hysterium* sp. Duby in herb. — Peritheciis.....; ascis clavatis, crassis, 90 \approx 18;

sporidiis octonis, distichis, fusiformibus septemseptatis, septulo longitudinali divisus, hyalinis 21-24 \approx 9; paraphysibus tenuibus, sursum ramosis.

Hab. in sarmentis Rubi, Ile du Levant (Hyeres) (MULLER).

12. **Gloniopsis Verbasci** (Duby) Rehm Rev. Hyst. Dub. pag. 11, *Hysterium* 7559
sterium Verbasci Duby in Herb. — Peritheciis elongatis, 1-3 mm. long., $\frac{1}{2}$ - $\frac{3}{4}$ mm. lat., acutis, non striatis; hypothecio brunneo; ascis clavatis, crassiusculis, 70 \approx 15-18; sporidiis 6-8, distichis, elongato ellipsoideis, obtusis, rectis vel parum curvatis, transverse primo 3- dein 7-septatis, loculis 1-2-longitudinaliter divisus, hyalinis 15-17 \approx 7-8; paraphysibus filamentosis, 3 μ . crassis, epithecium brunneum formantibus, sursum incrassatulis.

Hab. in Verbasco in..... (locus non indicatus).

14. **Hysterographium hiascens** Rehm. — Sacc. Syll. II, p. 780. *Var.* 5771
depressum Winter in Rev. Myc. 1886, p. 212. — Peritheciis superficialibus, dense stipatis, ellipsoideis, rarius oblongis, plus minusve depressis, plerumque rectis, labiis tumidulis, conniventibus, striatulis, opacis, atris 0,5 mm. longis; sporidiis interdum usque 38 μ . elongatis, 7-10-septatis. — Ad lignum putridum prope Melbourne Australiæ (READER).

20. **Hysterographium Rehmanum** Berl. et Vogl. *Hysterographium* 7560
spec. Rehm Rev. Hyst. Dub. p. 22. — Peritheciis sparsis, sessilibus, ellipsoideis, demum superficialibus, rima longitudinali apertis, subcompressis, obtusiusculis, 2 mm. long., 1 mm. lat.; ascis crassis, clavatis, 150 \approx 30 octosporis; sporidiis distichis, ovato-ellipsoideis, transverse 8-10-septatis, longitudinaliter 3-4-septatis, luteis vel brunneis, 30-36 \approx 15; paraphysibus ramosis.

Hab. in ramulis..... S. Antoine de Galamus Pyr. or.

2. **Robergea singularis** (Duby) Rehm Rev. Hyst. Dub. p. 4, *Ostropa* 7561
cinerea var. *singularis* Duby in herb. — Gregaria, verrucas in ligno denudato, albas, 2-4 mm. long., 1 mm. lat., $\frac{1}{2}$ mm. alt., ellipticas v. hemisphaericas, anguste cinereo-limbatas formans; verrucis vertice 1-2 maculas rotundas, subconcas, punctiformes, fuscidulas, medio dilutiores, sine ostiolo conspicuo gerentibus; nucleolo sub maculis transverse fere horizontaliter in longitudinem 2-3 mm. in ligno sito; ascis 600-700 \approx 7-8; sporidiis, filiformibus, 500 \approx 1; paraphysibus tenerrimis.

Hab. ad ramos exsiccatas Rhodis typhini in Helvetia (?).

- * 1. **Didymosphæria scabella** (Quel.) Berl. et Vogl. *Sphæria scabella* 7562
la Quel. 13 suppl. pag. 9, tab. VIII, fig. 24. — Peritheciis cor-

neis, lenticularibus, 400–500 μ . diam., mammiformibus, granulosis vel vix spinulosis, nigris; ostiolo conoideo, umbilicato, vix prominulo; sporidiis lanceolatis, 30 μ . longis.

Hab. in ramis denudatis putrescentibus *Hederæ*, Jura.

1. **Parodiella circumdata** (Kunze) Rehm Rev. Hyst. Dub. p. 30. *Hy-* 7563
sterium circumdatum Kunze in herb. Duby. — Peritheciis in medio macularum nigrescentium, oblongarum vel rotundarum paginæ foliorum superioris gregarie sessilibus, subrotundis, corrugatis, nigrofuscis, poro conspicuo deficiente, $\frac{1}{3}$ mm. diam.; ascis clavatis, 8-sporis, 60–70 \approx 9; sporidiis distichis, oblongis, obtusis, rectis, bicellularibus, utraq̄e cellula plerumque 1-nucleata, medio interdum subconstrictis, fuscis, tenuiter mucore gelatinoso obductis, 12–15 \approx 5; paraphysibus teneris, filiformibus hyalinis.

Hab. in foliis *Palmarum* (?) (herb. SCHWABRICHEN).

HORMOSPHERIA Lév. in Ann. Sc. Nat. 1863, p. 297 (Etym. *hormos* monile et *Sphæria*). — Perithecia carnosae, grumosa, unilocularia, sporangiis 3–4 repleta. Sporangia membranacea, tenuia, subglobosa, sporidiis concatenatis farcta.

1. **Hormosphæria tessellata** Lév. in Ann. Sc. Nat. 1863, pag. 257. — 7564
Peritheciis gregariis, discretis, erumpentibus, globosis, tessellatorimosi, maculis albidis, orbicularibus, vel irregularibus, ambitu limitato, primo albis, nitoris argentei, demum nigris, opacis, paginam superiorem foliorum occupantibus insidentibus, ostioliis (quando conspicuis) papillatis; sporangiis membrana tenuissima anhistâ, plus minusve globosis, in perithecii cavitate liberis, pallide viridibus; sporidiis globosis, concatenatis, levibus, hyalinis.

Hab. ad folia *Thibaudia floribundæ*, Bagota, Paramo San Fortunio Novæ Granat. (LINDIG). — «Genus valde paradoxum; an inter *Algas Nostochineas* locandum?»

SPHÆROPSIDÆ

- *21. **Phyllosticta arbutifolia** Ell. et Mart. in Journ. of Myc. 1886, 4630
pag. 129. — Maculis epiphyllis, minutis, 1 mm. vel minus, diam., albis, in pagina inferiore foliorum; peritheciis sæpe uno in centro cujusdam maculæ, subastomis, emergentibus, atris, 70–80 μ . diam.; sporulis subglobosis, hyalinis, 6–8 μ . longis.

Hab. in foliis vivis *Piri arbutifolia*, Newfield Amer. bor.

- *23. **Phyllosticta gossypina** Ell. et M. in Journ. of Myc. 1886, p. 129. 4631
 — Maculis brunneolis, pallidis vel vix albis, irregularibus, 3-5 mm. latis, margine rufo-purpureo, lato cinctis, sæpe folium decolorantibus; peritheciis nigris, subglobosis, collapsis, membranaceis, innato-erumpentibus, vix prominulis, epiphyllis, sparsis, in maculis parvis, 65-95 μ . diam.; sporulis hyalinis, ovoideis, utrinque obtusis, 2,5-3,5 \approx 1,5-2,5,
Hab. in foliis emortuis Gossypii herbacei in Amer. bor. (PROF. L. F. SCRIBNER).
- *29. **Phyllosticta ludoviciana** Ell. et Mart. in Journ. of Myc. 1886, 4632
 pag. 130. — Peritheciis amphigenis, in parte superiore magis prominulis, brunneis, laxis, erumpentibus, 150 μ . diam., in areolis, rufo-brunneis, sæpe lateralibus vel in maculis ovoideis vel subangularibus, obscure subtiliterque marginatis, definitis, sparsis; sporulis ovoideis, hyalinis, 5-8 \approx 2-3.
Hab. in foliis vivis Quercus aquaticæ, Louisiana Americæ borealis.
- *33 **Phyllosticta Diapensiæ** Pat. in Rev. Myc. 1884, p. 181. — Ma- 4633
 culis epiphyllis, albidis; peritheciis minutis, globulosis, nigris; sporulis numerosissimis, hyalinis, tenuissimis, 3 \approx 1.
Hab. in foliis Diapensiæ, Yunnam Sinarum (AB. DELAVAY).
- *34. **Phyllosticta sidæcola** Cooke in Grevillea XIV, p. 39. — Epi- 4634
 phylla; maculis brunneis, indistinctis, demum centro pallidioribus, irregularibus vel confluentibus; peritheciis punctiformibus, membranaceis, brunneis, minutis; sporulis ellipsoideis, enucleatis, hyalinis, 4 \approx 2.
Hab. in foliis languidis Sidæ napeæ, Kew Britannia.
- *35. **Phyllosticta saccharina** Ell. et Mart. in Journ. of Myc. 1886, 4635
 pag. 130. — Maculis amphigenis, definitis, parvis, 1-2 mm. diam., albis, margine rubiginoso-brunneo, irregulariter sparsis; peritheciis epiphyllis, in pagina superiore conspicuis, lenticularibus atris, 100-120 μ . diam.; sporulis oblongis, 3,5-4,5 \approx 1-1,3, hyalinis.
Hab. in foliis vivis Aceris saccharini, Missouri Americæ borealis.
- *36. **Phyllosticta Ginkgo** Brun. Liste Sphærops. p. 7. — Peritheciis am- 4636
 phigenis, appropinquatis et hinc inde maculas minutas formantibus, punctiformibus, atris; sporulis minutis, ovoideis, hyalinis, 3-8,5 \approx 2.
Hab. in foliis delapsis Ginkgo bilobæ, Rochefort Gallia.
38. **Phyllosticta potamia** Cooke in Grevillea XIV, p. 40. — Maculis 4637
 pallidis, ochraceis, dein brunneis, indistincte marginatis; perithe-

ciis præcipue in pagina inferiore, punctiformibus, atris, subinde protuberantibus, nitidis; sporulis ellipsoideis, hyalinis, 10-12 \approx 3.

Hab. in foliis Potamogeti, Lyndhurst, Hantg Britanniaë.

40. **Phyllosticta Aizoon** Cooke in Grevillea XIV, p. 40. — Epiphyll. 4638
la; maculis parvis, suborbicularibus, brunneis, obscure marginatis; peritheciis minutis, membranaceis, brunneis, immersis; sporulis ellipsoideis, continuis, hyalinis. 3 \approx 1,5.

Hab. in foliis Sedi Aizoonis, Kew Britanniaë.

- *56. **Phyllosticta adusta** Ell. et Mart. in Journ. of Myc. 1886, p. 4639
130. — Maculis amphigenis, pallidis vel griseis, margine definito, subtili, luteo-brunneo cinctis, sæpe marginalibus, 1-4 cm. latis vel marginem foliorum longe occupantibus; peritheciis amphigenis, atris, subglobosis, laxè aggregatis, subinde confluentibus, epidermide mox rupta tectis, 175-240 μ . diam.; sporulis hyalinis, oblongis vel subcylindraceis, sæpe bi- vel trinucleatis, 10-16 \approx 4-7; basidiis, 7-10 μ . longis.

Hab. in foliis Citri Aurantii gelu tactis Green Cove Springs, Florida Amer. bor. — Sporulis latioribus a *P. marginali* distinguenda.

- *81. **Phyllosticta Cyrillæ** Ell. et Mart. in Journ. of Myc. 1886, p. 130. 4640
— Maculis latis, margines, apicem basimque foliorum tegentibus, primo rufo-brunneis dein griseo-brunneis; peritheciis atris, subglobosis, pertusis, valde immersis, dein erumpentibus, sæpe epiphyllis, aggregatis, 110-140 μ . diam.; sporulis hyalinis, ovoideis, granulosis, 8-10 \approx 5-7.

Hab. in foliis vivis Cyrillæ racemifloræ, Green Cove Springs, Florida Amer. bor.

- *70. **Phyllosticta Æsculi** Ell. et Mart. in Journ. of Myc. 1886, p. 130. 4641
— Hypophylla, in maculis latis, indefinite limitatis; peritheciis punctiformibus, minutis, 40-50 μ . diam., sparsis, brunneis; sporulis oblongo-cylindraceis, hyalinis, 3-4 \approx 1.

Hab. in foliis vivis Æsculi glabræ, Missouri Amer. bor. — A *P. sphæropsidea* sporulis valde minoribus differt.

- *300. **Phyllosticta Tokutaroi** Speg. in Rev. Myc. 1886, p. 183. — 4642
Maculis sparsis solitariis, irregulariter orbicularibus, parvulis, 2-3 mm. diam., centro pallescentibus, areola sordide intenseque castaneo-fusca, indeterminata, latiuscula cinctis; peritheciis paucis, prominulo-subexertis, globoso-depressis, 250 μ . d., atris, glabris, v. subpapillosis, ostiolo parum manifesto, in senectute lacero-dehiscente, coriacellis, contextu sinuoso-parenchymatico, olivaceo-atro, sub-

pellucido donatis; basidiis fasciculatis, obclavato-elongatis, $25 \approx 2-3$, hyalinis, monosporis, continuis; sporulis ellipticis v. ovoideis rectis v. inæquilateralibus, $5-6 \approx 2-2\frac{1}{2}$, hyalinis.

Hab. ad folia viva Polygoni multiflori in dumetis prope Tokio Japon.

- *33. **Phoma Sambuci** Pass. in Journ. hist. Nat. Bord. 1835, p. 135, 4643
Brun. List. Sphær. p. 10. — Peritheciis approximatis, punctiformibus, parvis, nigris; sporulis lineari-lanceolatis, enucleatis, hyalinis, $10 \approx 1,5-2$.

Hab. in ramis decorticatis Sambuci nigræ, Saintes Galliæ,

102. **Phoma depressa** (Lév.) Sacc. Syll. III, p. 82. *Var.* **fructicola** 481
Brun. Liste Sphærops. p. 11. — Sporulis $10-12 \approx 3$. In fructibus exsiccatis Syringæ vulgaris, Saintes Galliæ.

131. **Phoma lirelliformis** Sacc. Syll. III, pag. 87. *Var.* **Viburni-Opuli** 510
Brun. Liste Sphærops. p. 11. — Sporulis elongato-oblongis, subfusoides, $8 \approx 2-3$, utrinque guttuligeris. In caulibus emortuis decorticatisque Viburni Opuli, Saintes Galliæ. — *Var.* **Weigeliæ-roseæ** Br. l. c. — Sporulis ovoideo-oblongis, biguttulatis, $8 \approx 3$; basidiis duplo longioribus. In ramis emortuis decorticatisque Weigeliæ roseæ, Saintes Galliæ.

- *146. **Phoma Brunaudi** Berl. et Vogl. *Phoma Staphyleæ* Brun. Liste 4644
Sphærops. p. 12 (non Cooke). — Maculis stromaticis, subcircularibus vel irregularibus, nigrescentibus, linea atra, subinde distinctissima cinctis; peritheciis cortice innatis, minutis, sparsis vel vix appropinquatis, primo tectis, dein vix erumpentibus; sporulis oblongis, rectis, $8 \approx 2,5-3$; basidiis 15-20, rectis vel hamatis,

Hab. in ramis emortuis Staphyleæ Colchicæ, Saintes Galliæ. — «An diversa a *Phoma Staphyleæ* Cooke?»

- *324. **Phoma lirellata** Sacc. Syll. III, p. 118. *Var.* **Centranthi** Brun. 703
Liste Sphærops. p. 15. — Peritheciis sparsis, vel in series parallelas congestis, subglobosis, compressis, subinde difformibus, nigris, tectis, dein subsuperficialibus, poro perspicuo pertusis, macula stromatica, elongata, irregulari, atra, vel atro-brunnea, sæpe linea nigra limitata, insidentibus; sporulis ovoideis vel ovoideo-oblongis, $6-8 \approx 2-3$, biguttulatis; basidiis filiformibus, 15-16.

Hab. in caulibus emortuis Centranthi rubri, Saintes Galliæ.

- *407. **Phoma Sumacis** Brun. Liste Sphærops. p. 11. — Peritheciis 4645
globulosis, atris, primo tectis, dein erumpentibus, perforatis, minutis; sporulis ovoideis, hyalinis, minutis, $2,5-3 \approx 2$.

Hab. in caulibus emortuis Rhois glabræ, Pons Galliæ. — Affinis *Ph. Ebuli*, verisimiliter ut hujus varietas habenda.

- *422. **Phoma nebulosa** (Fr.) Mont. — Sacc. Syll. III, p. 135. *Var. Cerastii* Pass. in Journ. hist. Nat. Bord. 1885, p. 135. Brun. Liste Sphærops. p. 17. — Sporulis bacillaribus, rectis, utrinque obtusis, $15 \approx 2,5$. In caulibus et ramulis *Cerastii trivialis*, Saintes Echilais Galliæ. 801

- *400. **Phoma Salviæ** Brun. Liste Sphærops. pag. 16. — Peritheciis sparsis vel approximatis, primo tectis dein erumpentibus, globulosis, parvis, nigris, macula linea stromatica nigra cincta insidentibus; sporulis oblongis, hyalinis, biguttulatis, $7-8 \approx 2-2,5$; basidiis filiformibus, $15 \approx 1$. 4646

Hab. in caulibus emortuis decorticatis *Salviæ officinalis*, Saintes Galliæ.

- *598. **Phoma Typhæ** Pass. in Brun. Liste Sphærops. p. 20. — Peritheciis sparsis, punctiformibus, depressis, nigris, primo epidermide tectis dein liberis; sporulis cylindræis, rectis, hyalinis. 4647

Hab. in foliis *Typhæ latifoliæ*, socia *Pleospora Typhæ* Rochefort Galliæ.

- *599. **Phoma depressula** Sacc. Bomm. et Rouss. in Rev. Myc. 1886, p. 193. — Peritheciis numerosis, sparsis, vix prominulis, nigris, sub epidermide atrata, lucida nidulantibus, poro pertusis; sporulis subclavatis, hyalinis, granulosis, $15-16 \approx 4-5$; basidiis brevibus, simplicibus, monosporis. 4648

Hab. in Scirpo cæspituloso prope Bruxelles Belgii.

- *3. **Dendrophoma Gleditschiæ** Pass. in Journ. hist. nat. Bord. 1885, p. 136, Brun. List. Sphærops. p. 21. — Peritheciis membranaceis, carbonaceis, sparsis, vel gregariis, globulosis, erumpentibus, nigris; sporulis bacillaribus, hyalinis, $10-12 \approx 3-3,5$; basidiis longe ramosis, ramis in ramulos divisis. 4649

Hab. in ramis, emortuis *Gleditschiæ Triacanthi*, Saintes Galliæ.

- *7. **Dendrophoma teres** Berl. s. n. — Peritheciis globoso-conoideis, minutis $100-120 \mu$. d., basi hyphis fuliginæis cinctis, contextu laxo parenchymatico, sursum ostiolatis; sporulis numerosis, ovoideis, enucleatis, in cirrum expulsis, $3 \approx 1,5$; basidiis tereti-fusoideis, denticulatis vel brevissime ramosis, furcatisque; denticulis sporulas sustentibus, crassiusculis, subinde brevissimis. 4650

Hab. in ramis emortuis *Mori albæ*, Fiumicello Ital. bor.

- *8. **Dendrophoma Mori** Berl. s. n. — Peritheciis ligno immersis, parte su- 4651

periore pellucida, pertusa, conoidea, tantum prominulis; sporulis sphaeroideis vel vix ovoideis enucleatis, 3-4 \approx 3, denticulis basidorum brevibus insertis vel acrogenis; basidiis cylindraceutis septatis, ad septa denticulato-dilatatis, vel nodulosis, 40-50 \approx 3,5.

Hab. in ligno emortuo Mori albæ, Fiumicello Ital. bor.

1. **Asteroma Solidaginis** Cooke in Grevillea XIV, p. 40, — Peritheciis minutis, in maculis obscuris suborbicularibus collectis, mycelio tenui, brunneo, crustaceo, reticulato, plus minusve radiante indentibus; sporulis ellipsoideis, minutis, hyalinis, continuis.

Hab. in foliis vivis Solidaginis ellipticæ, Kew Britannia.

- * 1. **Vermicularia Eleocharidis** Pat. in Rev. Myc. 1886, pag. 181. — Minuta; peritheciis epidermide tectis, apice fasciculo parvo setarum septatarum, 50-65 μ . long. ornatis; sporulis hyalinis, continuis, fusoideis, rectis vel curvulis, uno apice acute mucronatis, 15-17 \approx 5.

Hab. in Eleocharide, Yunnan Sinarum (AB. DELAVAY).

- * 13. **Vermicularia acuum** Oud. Contr. Flor. Myc. Pays-Bas XI, p. 28. — Peritheciis seriatim dispositis, nigris, 100-120 μ . diam., subsphaericis, sursum plus minusve conoideis, contextu parenchymatico, minuto, setis raris, carneis, atris 4-septatis ornatis, astomis; sporulis hyalinis, ellipsoideis, 7 \approx 3,5.

Hab. in acubus Abietis excelsæ, Putten Hollandiæ.

5. **Placosphaeria Onobrychidis** (D. C.) Sacc. Syll. III, p. 245, *Var. minuta* Brunaud Liste Sphaerops. pag. 24. — Stromatibus 4-5 mm. longis, 2-3 mm. latis. In foliis et caulibus Onobrychidis sativæ, Saintes Cozes Pons Gallia. — *Var. exappendiculata* Brun. l. c. Stromatibus crustaceis, nigris vel brunneo-nigris, ovoideis, oblongis vel irregularibus, minutis, totum folium vel partem ejus tegentibus, sæpe cauliculis, intus fuscescentibus; sporulis subsphaeroideis vel ovoideis, irregularibus, hyalinis, 7-8 \approx 4-5, exappendiculatis. In p. sup. et inf. foliorum et in caulibus Onobrychidis sativæ, Arces Gallia.

- * 1. **Fusicoccum Malorum** Oud. Contr. Flor. Myc. Pays-Bas, XI, p. 29. — Stromatibus verruciformibus, nigris, erumpentibus, forma variis, superficie valde inæquali, intus spurie plurilocularibus, loculis circumcirca basidiis rectis longiusculis vestitis, singulis sporulas fusiformes, hyalinas, continuas, utrinque angustatas, 7-9 \approx 2-3, seriatim gerentibus.

Hab. in epicarpio Malorum putrescentium, Amsterdam Hollandiæ.

- * 2. **Fusicoccum asperum** (Bonord.) Berl. et Vogl. *Coronium asperum* Bon. Abh. Geb. Myk. p. 132. — Gregarium; pustulis oblongis seu ellipticis, stromate ceraceo, griseo, disco pallido, erumpente, poro simplici pertuso; basidiis virgato-ramosis; sporulis longis, fusiformibus, utrinque acutissimis, curvatis, hyalinis. 4656
Hab. in ramis *Quercus* in Guesstphalia.
- * 3. **Fusicoccum umbrinum** (Bonord.) Berl. et Vogl. *Coronium umbrinum* Bon. Abh. Geb. Myk. pag. 132. — Gregarium; stromate ovato, subtus plano, umbrino, cortici adnato, epidermide fissa erumpente, ostiolo simplici pertuso; sporulis fusiformibus, minutis, hyalinis, uno latere rectis, altero curvatis; pustulis ellipticis. 4657
Hab. in cortice *Coryli* in Guesstphalia.
- * 8. **Fusicoccum macrosporum** Sacc. et Briard in Rev. Myc. 1886, p. 156. — Stromate parum elevato, convexo, obtuso, epidermidem elevante atque demum rumpente, eaque cincto, pluriloculari, nucleis albis farcto; sporulis oblongis, hyalinis, guttulatis, granulosisque, obtusis, sed utrinque vix attenuatis, 44-48 \approx 12-14; basidiis hyalinis, brevissimis. 4658
Hab. in ramis emortuis delapsisque *Fagi silvaticæ* socio *Asterosporio Hoffmanni*, Troyes Galliæ.
- * 9. **Fusicoccum Brunaudi** Pass. in Journ. hist. nat. Bord. 1885, p. 136. Brun. Liste Sphærops. p. 25. — Pulvinatum, erumpens, sursum et intus album, obscure locellatum; sporulis cylindraceo-fusiformibus, hyalinis, 17-18 \approx 2,5-3. 4659
Hab. in ramis crassioribus *Quercus*, Pessines Cozes Bougnaud Galliæ.
- * 60. **Sphæropsis Jasmini** Pat. in Rev. Myc. 1886, pag. 182. — Peritheciis punctiformibus, nigris, epidermide tectis; sporulis ovoideis rotundatis, brunneis, bi-trinucleatis, 6-7 \approx 6. 4660
Hab. in ramulis emortuis *Jasmini*, Yunnan Sinarum (Ab. DELAVAY).
- * 61. **Sphæropsis Evolvuli** Pat. in Rev. Myc. 1886, pag. 182. — Peritheciis epidermide tectis, nigris, globulosis, 200 μ . diam.; sporulis rufo-brunneis, ovoideis, 1-guttulatis, 10 \approx 8. 4661
Hab. in caulibus exsiccatis *Evolvuli*, Yunnan Sinarum (Ab. DELAVAY).
- * 74. **Sphæropsis Rostrupii** Berl. et Vogl. *Sphæropsis* sp. Rostrup Unders. Svamp. Rhizoct. p. 19, tab. I, fig. 1-5. — Peritheciis sparsis, pseudoparenchymaticis, rufo-brunneis; sporulis ovoideis, vel 4662

sphæroideis, rufescentibus, basi apiculatis, guttulis 1-3 pallidioribus præditis, 6-8 = 4-6.

Hab. in radicibus Trifolii hybridi in Islandia.

*80. **Sphæropsis caricina** Pass. in Journ. hist. Nat. Bord. 1885, p. 136, 4663

Brunaud Liste Sphærops. p. 28. — Peritheciis sparsis, minutis, globulosis, nigris, tectis, ostiolo epidermidem perforante donatis; sporulis ellipsoideis vel ovoideis, fuligineis, continuis (an semper?), 18-22 = 10-12,5; basidiis brevibus, subæqualibus, hyalinis.

Hab. in foliis emortuis Caricis ripariæ, Saintes Galliæ.

1. **Coniothyrium olivaceum** Bon. in Fuck. — Sacc. Syll. III, p. 305. 1723

Var. **phyllogena** Sacc. in Rev. Myc. 1886, pag. 193. — A typo differt peritheciis phyllogenis, minoribus, sporulis obovatis, 7 = 4, fuligineis. In foliis vivis Rhododendri, Fontainebleau Galliæ.

29. **Coniothyrium australe** Sacc. Syll. III, pag. 311. *Var.* **Mespili** 1751

Pass. in Journ. hist. Nat. Bord, p. 136, Brunaud Liste Sphærops. p. 29. — Peritheciis epidermide tectis, dein erumpentibus; sporulis ovoideis, brunneis, centro guttulatis, 12,5-15 = 8-10. In ramis emortuis Mespili germanicæ, Pessines Galliæ.

*1. **Haplosporella obscura** Pass. in Journ. hist. Nat. Bord. 1885, 4664

p. 136. Brunaud Liste Sphærops. p. 29. — Stromate carbonaceo, pulvinato, per epidermidem stellatim ruptam erumpente, sursum granuloso-rugoso, intus pluriloculare; loculis (peritheciis?) subglobosis; sporulis ovoideis, uno apice acutis, fuligineis, 10-12 = 5; basidiis longitudine variis, sæpe brevibus, filiformibus, hyalinis.

Hab. in ramis emortuis Castaneæ vulgaris, Saintes Galliæ.

11. **Diplodia atrata** (Desm.) Sacc. Syll. III, p. 331. *Var.* **Pseudoplatani** 1835

Brun. Liste Sphærops. p. 30. — Sporulis 22-26 = 11-12. In ramis emortuis Aceris Pseudoplatani, Saintes Galliæ.

14. **Diplodia Kœlreuteriæ** Sacc. Syll. III, pag. 331. *Var.* **minor** 1838

Brunaud Liste Sphærops. pag. 30. — Sporulis 20-25 = 10, ad septum constrictis. In ramis emortuis Kœlreuteriæ paniculatæ, Saintes Galliæ.

63. **Diplodia Cruris-Galli** Brun. Liste Sphær. pag. 32. — Peritheciis 4665

sparsis vel gregariis, primo tectis dein erumpentibus, globulosis, vel globuloso-depressis, nigris, perforatis; sporulis oblongis, 1-septatis, fuligineis, medio constrictis, 22-28 = 10-12.

Hab. in ramis emortuis Cratægi Cruris-Galli, Saintes Rochefort Galliæ.

71. **Diplodia Cesarorum** Fuck. — Sacc. Syll. III, p. 341. *Var.* **major** 1895

Brun. Liste Sphærops. pag. 32. — Sporulis ovoideo-oblongis, 35-

- 38 = 15-17, 1-septatis, septo non vel vix constrictis, fuliginis, primo continuis, granulosisque, pedicellatis. In ramis emortuis *Cerasi Avium*, *Saintes Galliae*.
87. **Diplodia Ribis** Sacc. Syll. III, p. 344. *Var. Ribis-malvacei* Brunaud Liste Sphærops. p. 33. Sporulis 28-30 = 12-12,5. In ramis emortuis *Ribis malvacei*, *Saintes Galliae*. — *Var. Ribis-aurei* Br. l. c. Sporulis 28 = 12. In ramis emortuis *Ribis aurei*, *Saintes Galliae*. — *Var. Ribis-sanguinei* Brun. l. c. Sporulis 22-25 = 12-15. In ramis emortuis *Ribis sanguinei*, *Saintes Galliae*. 1911
113. **Diplodia laurina** Sacc. Syll. III, pag. 318. *Var. minor* Pass. in Journ. hist. Nat. Bord. p. 136, Brunaud Liste Sphærops. p. 35. — Sporulis 18-20 = 10-12, septo non vel vix constrictis. In ramis emortuis decorticatisque *Lauri nobilis*, *Saintes Galliae*. 1937
137. **Diplodia ditior** Sacc. et Roum. Syll. III, pag. 352. *Var. petolorum* Brun. Liste Sphærops. pag. 36. — Sporulis 30 = 14, medio valde constrictis. In petiolis *Platani orientalis*, *Saintes Galliae*. 1961
- *235. **Diplodia Medicaginis** Brun. Liste Sphærops. pag. 37. — Peritheciis sparsis vel gregariis, subglobosis, nigris, primo tectis dein erumpentibus; sporulis ovoideo-elongatis, utrinque sæpe subacutis, 1-septatis, medio non constrictis, loculis uniguttatis, brunneis, 25 = 10. 4666
- Hab.* in caulibus emortuis *Medicaginis sativæ*, *Saintes Galliae*.
- *263. **Diplodia Frumenti** Ell. et Ev. in Journ. of Myc. 1886, p. 103. — Peritheciis globosis, subinde ostiolo cylindræo, crassiusculo præditis, subcæspitosis vel sæpe seriatis, rimis longitudinalibus immersis; sporulis ellipsoideis, brunneis, 1-septatis, 15-18 = 12; basiidiis crassiusculis. 4667
- Hab.* in culmis emortuis *Zææ Maydis* in America boreali. — Certe cum *D. Zææ* neque comparanda.
- *69. **Botryodiplodia Mali** Brun. Liste Sphærops. p. 38. — Peritheciis numerosissimis, gregariis, parvis, stromate corticolo, nigro, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., suborbiculari vel irregulari, ruguloso, tecto dein erumpente immersis; sporulis obovoideis, primo continuis, 1-septatis, 20 = 8, ad septum non vel vix constrictis. 4668
- Hab.* in cortice emortuo truncorum *Mali* *Saintes Galliae*.
- *1. **Ascochyta moricola** Berl. s. n. — Peritheciis minutis, $\frac{1}{5}$ mm. d., globosis, globosove-conoideis, in ostiolum breve, subobtusum desinentibus, tectis; sporulis fusoides, utrinque acutis, 1-septatis ad septum non vel vix constrictis, 10 = 3, pallidissime luteis. 4669

Hab. in ramulis emortuis Mori albæ, Fiumicello Ital. bor. socio *Coniothyrio fuscidulo*. — Ab omnibus speciebus ramicolis facile distinguenda.

- *275. **Diplodina Iridis** Pass. in Journ. hist. Nat. Bord. 1885, p. 136, 4670
Brunaud Liste Sphærops. p. 41. — Maculis nullis; peritheciis punctiformibus, sparsis, nigris; sporulis oblongis, utrinque rotundatis, ad medium 1-septatis, hyalinis, 18-20 \approx 5.

Hab. in foliis emortuis Iridis Pseudacori, Saintes, Saint-Cézaire Galliæ.

- *88. **Hendersonia Acanthi** Pat. in Rev. Myc. 1886, p. 182. — Peri- 4671
theciis epidermide tectis, minutis, ostiolo lato apertis; sporulis primo viridulis, continuis, dein rufo-brunneis, 3-septatis, 16-20 \approx 6-8.

Hab. in caulibus emortuis Adathodæ, Yunnan Sinarum (AB. DELAVAY). — Verisimiliter status pycnidicus *Leptosphaeriæ Acanthi*.

- *90. **Hendersonia stictica** Lév. in An. Sc. Nat. 1863, pag. 299. — 4672
Peritheciis gregariis, epiphyllis, punctiformibus, prominulis, convexis, basi applanatis, intus extusque nigris, macula albida, limitata insidentibus; basidiis simplicibus, sporulis ovato-fusiformibus, incoloribus, 3-5-septatis, diametro quadruplo quintuplove longioribus.

Hab. ad folia Thibaudiaæ rupestris, Bogota, Monserrate Novæ Gran.

- *97. **Hendersonia bicolor** Pat. in Rev. Myc. 1886, p. 182. — Macu- 4673
lis epiphyllis, sæpe orbicularibus, cinereis, margine ruguloso cinctis; peritheciis vix prominulis, nigris, lucidis; sporulis ovoideis, 8-12 \approx 5-6, utrinque parum curvatis, biseptatis, loculis duobus rufis, alio hyalino attenuatoque.

Hab. in foliis Rhododendri, Yunnan Sinarum (AB. DELAVAY).

- KELLERMANNIA** Ell. et Ev. in Journ. of Myc. 1886, p. 153 (Ætym. a cl. Dr. W. A. KELLERMAN generis detectore). — Perithecia immersa, membranacea, ostiolata. Sporulæ cylindraceæ, latæ, septatæ, apice appendicula lesiniformi præditæ.

1. **Kellermannia yuccogena** Ell. et Ev. in Journ. of Myc. 1886, p. 151. 3583
Discula anomala Sacc. Syll. III, p. 677. — Perithecia membranacea, circiter 2 mm. diam., globosa, matrice immersa, vix conspicua, ostiola papilliformia, minuta, atra, epidermidem vix erumpentia; sporulæ cylindraceæ, granulosæ, 45-50 \approx 10-12, sursum in setam lesiniformem, 18-25 μ . longam contractæ.

Hab. in foliis emortuis Yuccæ angustifoliaæ, Manhattan, Kansas Amer. bor.

3. **Kellermannia Sisyrinchii** Ell. et Ev. in Journ. of Myc. 1886, p. 111. 4674

— Peritheciis sparsis, minutis, 150 μ . diam., epidermide tectis, subglobosis, parte superiore prominulis dein collapsis, apice perforatis, membranaceis, contextu dense parenchymatico, quam *K. Polygoni* pallidiore; sporulis oblanceolatis, hyalino-luteolis, 3-septatis, 50-60 \approx 5-6, cum appendicula circiter sporulæ dimidium æquante.

Hab. in Sisyrinchio bello, Berkeley, Cala Amer. bor.

2. **Kellermannia Polygoni** Ell. et Ev. in Journ. of Myc. 1886, p. 111. 4675

Peritheciis erumpentibus, membranaceis, contextu laxo parenchymatico, atris, depresso globosis, $\frac{1}{2}$ mm. diam., ostiolo papillato, perforato; sporulis lanceolatis, 1-septatis, 30-40 \approx 3-4 cum appendicula, basi rotundatis, hyalino-luteolis, primo granulosis et nucleatis, gradatim citra medium in appendiculam lesiniformem, rectam, gracilem contractis.

Hab. in caulibus emortuis *Polygoni polymorphi*, Blue Canon, Cala Amer. bor. (HARKNESS).

* 21. **Camarosporium Eucalypti** Winter in Rev. Myc. 1883, p. 212. 4676

— Peritheciis in macula irregulari, sæpe angulata, pallide fusca vel cinereo, fusca determinata, linea obscuriori limitata, usque 7 mm. diam. gregariis vel aggregatis, plerumque epiphyllis, erumpentibus, globosis, atris, membranaceis, poro pertusis, 130-160 μ . diam., sæpe confluentibus; sporidiis numerosissimis, late ovoideis, vel piriformibus, medio vel extra medium transverse uniseptatis, una cellula demum septo longitudinali, sæpe obliquo prædita, fuscidulis, guttulatis, 12,5-14 \approx 7-9, stipite filiformi, brevi hyalino suffultis.

Hab. in foliis *Eucalypti*, prope Melbourne Australiæ (H. WATTS comm. READER).

* 70. **Stagonospora virens** Ell. et Mart. in Journ. of Myc. 1886, p. 129. 4677

— Peritheciis nigris, subglobosis, gregariis vel sparsis, hypophyllis, 130-160 μ . diam.; sporulis hyalinis, ovatis, utrinque acutis, uniseptatis, 15-16 \approx 4-6.

Hab. in foliis *Quercus virentis*, Green Cove Springs in America boreali (Prof. F. L. SCRIBNER).

82. **Stagonospora Anemones** Pat. in Rev. Myc. 1886, p. 181. — Pe- 4678

ritheciis sparsis, $\frac{1}{2}$ -1 mm. diam., nigris, lucidis, primo epidermide tectis, demum liberis, ostiolo prominulo donatis; sporulis cylindraceis, uno apice vix attenuatis, hyalinis, rectis vel vix curvulis, 3-septatis, 26-30 \approx 3-4.

Hab. in petiolis emortuis *Anemones*, Yunnan Sinarum (AB. DELAVAY).

- * 1. **Septoria Melastomatum** (Lév.) Berl. et Vogl. *Rhabdospora Melastomatum* Lév. in Ann. Sc. Nat. 1863, p. 299. — Peritheciis minutis, puncto minoribus, sparsis, globosis, epidermide tectis, prominulis, vertice pertusis, macula alba, arida fusco-cincta insidentibus; sporulis linearibus, continuis, cylindricis, utrinque obtusis, hyalinis. 4679
- Hab.* ad folia Melastomatis cujusdam in Nova Granata.
- * 1. **Septoria Primulæ** Bucknall in Grevillea XIV, pag. 40. — Epiphylla; maculis pallidis, orbicularibus, brunneo-marginatis, sparsis; peritheciis paucis, punctiformibus, semiimmersis, atris, centro pallidioris macularum insidentibus; sporulis linearibus, rectis, hyalinis, 47 μ . longis. 4680
- Hab.* in foliis Primulæ, Leigh Vood in Britannia.
- * 1. **Rhabdospora curvula** Berl. s. n. — Peritheciis tectis, globoso-conoideis, dein erumpentibus, $\frac{1}{4}$ - $\frac{1}{3}$ mm. d., atris, sursum in ostiolum obtusum perforatum desinentibus; sporulis cylindræis, sinuosis, curvulis vel falcatis, 25-28 \approx 1-1,5; basidiis longitudine variis, ramosis, basi sensim incrassatulis, septatis, 25-30 \approx 1, basi 3 μ . crassis, ramis apice etiam duas sporulas sustinentibus. 4681
- Hab.* in ramis Mori albæ, Fiumicello Ital. bor.
- * 1. **Discella albomaculans** Peck in 35 Rep. Stat. Mus. 1884, p. 137. — Peritheciis punctiformibus, hemisphæricis, prominulis, in macula alba, indefinita gregariis, atris, rima irregulari vel radiata apertis; sporulis numerosis, oblongis, obscure uniseptatis, 10-12 \approx 3, hyalinis. 4682
- Hab.* in ramulis emortuis Vitis in montibus Helderberg in America boreali.
- * 2. **Discella hysteriella** Peck in 35 Rep. Stat. Mus. 1884, p. 137. — Peritheciis hysteriiformibus, inter fibras ligni nidulantibus, rima longitudinali vel elliptica demum apertis, nigris; sporulis numerosis, oblongis utrinque obtusis, obscure uniseptatis, 7,5-10 \approx 3-4, hyalinis. 4683
- Hab.* in ligno decorticato, North Greenbush Amer. bor.
- OLLULA** Lév. in Ann. Sc. Nat. 1863, pag. 299 (Etym. ab *olla*). — Perithecia membranacea, concava, late aperta, basi puncto matrici adnata. Discus e basidiis ramosis, apice monosporis formatus.
1. **Ollula pezizoidea** Lév. in Ann. Sc. Nat. 1863, pag. 299. — Peritheciis levibus, albis, disco aurantiaco; sporulis oblongis, continuis, incoloribus, diametro triplo quadruplove longioribus. 4684

Hab. ad cortices, Villeta, la Vega, Nov. Granat. — Fungillus hic exacte faciem minusculæ *Pezizæ aurantiacæ* exhibet.

HYPHOMYCETÆ

* 1. **Fusidium Mimosæ** Pass. et Roum. Rev. Myc. 1885, pag. 178. — 3664

Cæspitulis pulveraceis, glomeratis vel vage sparsis, albidis; conidiis cylindraceo-lanceolatis, rectis vel arcuatis, hyalinis, 10 \approx 2,5.

Hab. in endocarpio leguminum fracidorum *Mimosæ* Julibrissin in Gallia (*Reliquiæ Prostiï*).

REPERTORIUM

SPHÆROPSIDEARUM, MELANCONIEARUM ET HYPHOMYCETUM

SECUNDUM MATRICES

(Additis speciebus in **Appendice** descriptis).

Numeri 4213-4684 citantur 213-684; numeri vero asterisco notati, et illi *Hypohomycetum* et *Pyrenomycetum* ex integro citantur.

Obs. A. indicat *Aposphæria*. — Alt. *Alternaria*. — Am. *Amerosporium*. — Amph. *Amphisphæria*. App. *Appendicularia*. — Ar. *Arthriniium*. — Arthr. *Arthrosporium*. — As. *Aschochyta*. — Ast. *Asterina*. — Aste. *Asleroma*. — Bas. *Basidiella*. — Bot. *Botryotiplodia*. — C. *Chætophoma*. — Ca. *Camarosporium*. — Cercosp. *Cercospora*. — Cer. *Cercosporella*. — Ch. *Chalara*. — Cy. *Cytospora*. — Clav. *Clavularia*. — Clon. *Clonostachys*. — Col. *Collonema*. — Coll. *Colletotrichum*. — Co. *Coniothyrium*. — Con. *Coniosporium*. — Cor. *Corethrospis*. — Cory. *Coryneum*. — Cose. *Cosecinaria*. — Cry. *Cryptosporium*. — Cyl. *Cylindrosporium*. — Cyli. *Cylindrium*. — Cylin. *Cylindrina*. — D. *Dothiorella*. — Da. *Dortuca*. — Dact. *Dactylium*. — Dactyl. *Dactylosporium*. — Dendr. *Dendrophoma*. — Diap. *Diaporthe*. — Diat. *Diatrypella*. — Di. *Diplodia*. — Dic. *Dichomera*. — Did. *Didymosphæria*. — Didy. *Didymaria*. — Didym. *Didymella*. — Dim. *Dimerosporium*. — Dip. *Diplodiella*. — Dipl. *Diplodina*. — Disc. *Discella*. — Eph. *Ephelis*. — Epic. *Epicoccum*. — End. *Endothia*. — Ex. *Excipula*. — Fusar. *Fusarium*. — F. *Fusicoccum*. — Fu. *Fusi-*

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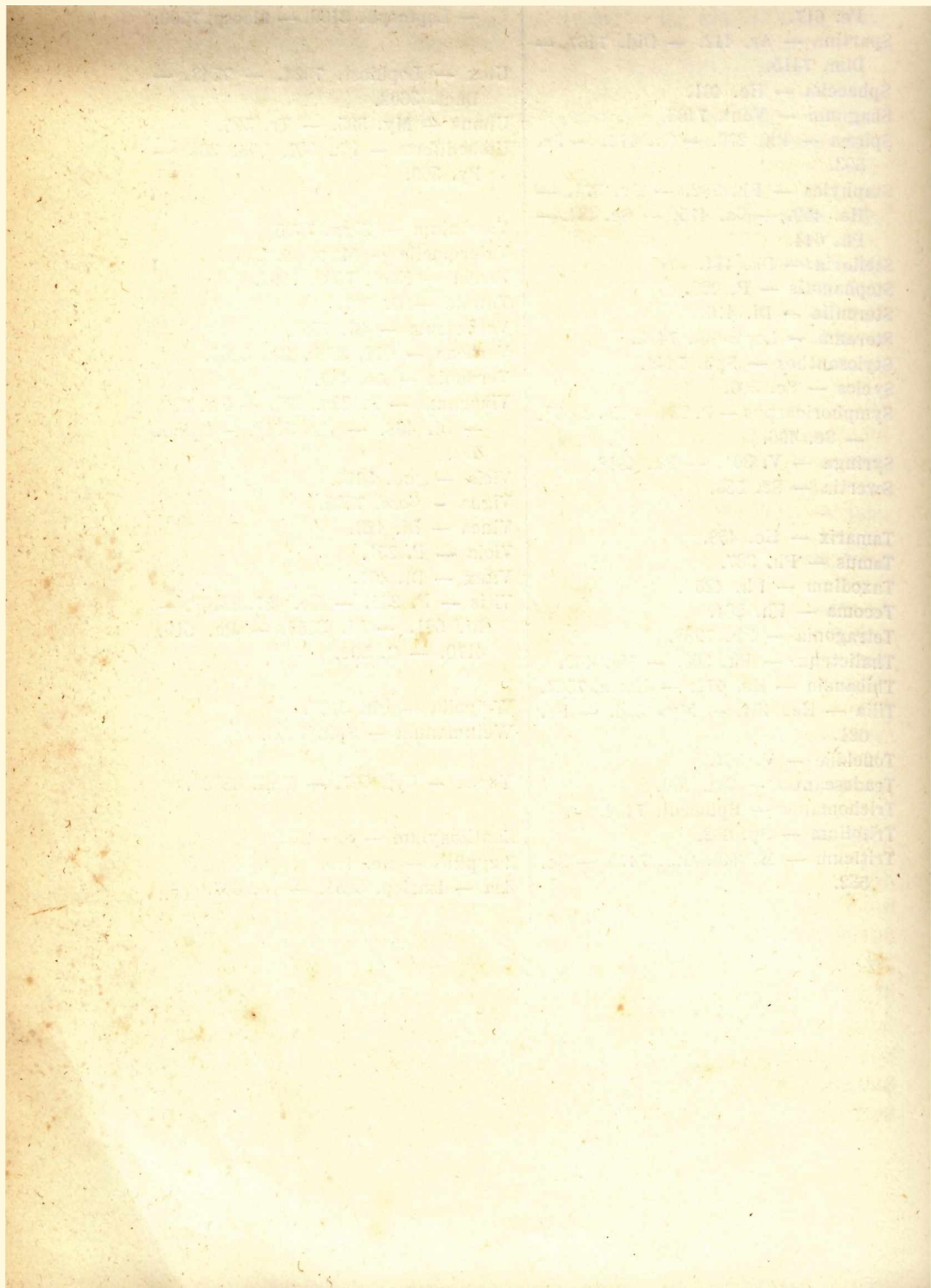
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