

DIMEROSPORIUM Fuck. — Syll. I, p. 51.

1. **Dimerosporium eriophilum** Wint. Cont. Flor. Myc. Lus. Ser. VI, 1694
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, 30-55 \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 Bragança in Lusitania (MOLLER).
2. **Dimerosporium excelsum** Cooke in Grevillea XV, p. 17. — Ma- 1695
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 *Knightiæ excelsæ*, in Nova Ze-landia (COLENZO).
3. **Dimerosporium Langloisii** Ell. et Mart. in Journ. of Myc. 1886, 1696
pag. 129. — Peritheciis gregariis, depresse sphæroideis, 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 12, subhyalinas continentia.
4. **Dimerosporium Osyridis** Winter Ex. Pilze in Flora 1884, p. 7. 1697
— Hyphis mycelicis fuscis, ramosis, radiantibus, maculas atras, rotundatas seu irregulares, usque 2 mm. latas formantibus; peritheciis gregariis, depresse globosis, rugulosis, glabris, atris, sub microscopio fere impellucidis, fuscis, 150-210 μ . diam.; ascis cylindraceo-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).

5. **Dimerosporium eutrichum** Sacc. et Berl. in Rev. Myc. 1885, tab. 1698
LIV, fig. 4. — Peritheciis subiculo atro insidentibus, sphæroideis, 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 \times 8-10, octosporis; sporidiis mono- vel distichis, oblongis, didymis, loculo superiore vix crassiore, apice rotundato, infero acutiore, ad septum leniter constrictis, 11-13 \times 3, hyalinis.
Hab. in pagina inferiore foliorum..... Santos in Brasilia. — Sporidia subinde (spurie?) triseptata visa.
6. **Dimerosporium verrucicolum** Wint. in Hedw. 1885, p. 25. — Effu- 1699
sum, hypophyllum, fuliginosum; mycelio ex hyphis ramosissimis, torulosis flexuosisque, dense radiatimque contexto; peritheciis gregariis, globosis, tenuissime membranaceis, fuscis, verticem versus obscurioribus, in centro irregulari-rotundato dehiscentibus, 105 \times 120 μ . lat.; ascis late oblongis, sursum parum longeque, deorsum stipitiforme attenuatis, 8-sporis, 35-44 \times 12-14; sporidiis conglobatis, oblongo-subfusiformibus, medio uniseptatis, vix constrictis, hyalinis, 16-17,5 \times 3,5-4.
Hab. ad folia viva Oleæ verrucosæ in monte Boschberg, Promont. Bonæ Spei (MAC-OWAN).
7. **Dimerosporium melioloides** (B. et C.) Ellis in Journ. of Myc. 1885, p. 146, *Asterina melioloides* B. et C. Grev. 4, p. 10, Sacc. Syll. I, p. 46, *Meliola Baccharidis*, B. et Rav. Grev. 4, pag. 158. — Peritheciis brunneo-atris, globosis, rugulosis, astomis, epiphyllis, stipatis, 80-95 μ . diam., hyphis radiantibus, brunneis insidentibus; ascis cylindrico-clavatis, 8-sporis, 33-40 \times 10-13; sporidiis hyalinis, subcymbiformibus, 1-septatis, 1-2-seriatis. — Quoad habitacionem cfr. Syll. loc. cit.
8. **Dimerosporium Olei** Wint. in Hew. 1885, p. 25. — Mycelio ex hy- 1700
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 \times 42-52; sporidiis inordinatis, elliptico-oblongis, didymis, medio profunde constrictis, utrinque late rotundatis, cellula inferiori parum angustiori, intense fuscis, 30-33 \times 16-17.

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

9. **Dimerosporium xylogenum** Ell. et Ev. in Journ. of Myc. 1886, 1701 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 \times 20-24, apophysatis, octosporis; sporidiis oblongo-ellipsoideis, 1-septatis, granulosis, subhyalinis, 15-18 \times 8.

Hab. in ligno putri Salicis, Louisiana Amer. bor. (LANGLOIS).

10. **Dimerosporium? microstomum** Speg. F. Puigg. n. 222. — Non 1702 parasitans; hypothallo tenuissimo, vix perspicuo, 2-5 mm. lat.; peritheciis globosis, densiuscule gregariis, ostiolatis, glabris, 70-120 μ . diam.; ascis cylindraceutis, paraphysatis, 35-50 \times 8-10; sporidiis obovatis, apice rotundatis, pallide olivaceis, 1-septatis, 9-11 \times 3-4.

Hab. ad folia languida Sapindaceæ cujusdam in dumetis pr. Apiahy Brasiliæ.

11. **Dimerosporium solare** Speg. F. Puigg. n. 218. — Pulvinulis non 1703 parasiticis, minutissimis, atris, sparsis, 0,5-1 mm. diam.; peritheciis centro pulvinulorum constipatis, globosis, 90-120 μ . diam.; hyphis radiantibus, densis, 16-18 \times 5-6, cinctis; ascis ovatis, apophysatis, 35-40 \times 25-30; sporidiis clavulatis, hyalinis vel fumosis, 1-septatis, 16-18 \times 5-6.

Hab. ad folia viva Trichiliæ vel Xanthoxyli cujusdam in silvis pr. Apiahy Brasiliæ.

12. **Dimerosporium pannosum** Speg. F. Guar. II, n. 47. — Mycelio 1704 crassiusculo pannoso toto hypophyllo, nervo centrali sæpius excepto, obtegente, atro-olivascete, tactu velutino, ex hyphis gracilibus, 3-4 μ . crass., olivaceis, pellucidis, flexuosulis, septulatis, dense ramuloso-intertextis, hyphopodiis destitutis efformato; peritheciis hinc inde plus minusve mycelio infossis vel insculptis, atris globosis 120-180 μ . diam., glabris coriacellis contextu indistincto olivaceo-fusco, astomis; ascis cylindraceutis, sursum rotundatis, subcrassiuscule tunicatis ac 1-foveolatis, postice breviter cuneato-atenuatis, pedicello brevissimo crassoque suffultis, 60-70 \times 8-10, paraphysibus filiformibus paucis immixtis, octosporis; sporidiis ellipticis utrinque attenuato-acutatis vel minute subtruncatis, 16-17 \times 4-5, loculis æqualibus non v. grosse 1-guttulatis, primo hyalinis, dein e chlorino olivaceis.

Hab. ad folia Randiæ aculeatæ in silvis subvirgineis prope

Peribebuy Brasilæ. -- Species pulchella statu juvenili *Dimerosporii Collinsii* simillima.

13. **Dimerosporium subpilosum** Winter Grev. XV, pag. 88. — Peri- 1705
 theciis dense aggregatis, soros parvos, rotundatos vel irregulares, $\frac{1}{4}$ -1 mm. latos, epiphyllous, sparsos, atros formantibus, globosis, membranaceis, atris, poro simplici pertusis, pilis repentibus, radiantibus, flexuosis, fusco-atris, longis parce obsitis, 56-60 μ . diam.; ascis late obovatis vel ellipsoideis, sessilibus, 8-sporis, 30-32 \approx 16-18; sporidiis conglobatis, clavatis, utrinque rotundatis, medio septatis et parum constrictis, interdum subinæquilateralibus, hyalinis, 12-13 \approx 3,5-4,5.

Hab. in foliis vivis Chiococcæ speciei cujusdam Sao-Francisco Brasilæ (ULE).

14. **Dimerosporium Collinsii** (Schw.) Thuem. M. U. n. 849, *Sph.* (Bys- 1706
 sised.) *Collinsii* Schw. Syn. Amer. bor. n. 1512, Peck 29 Rep. on the St. Mus. — Tomento crasso densissime intertexto efficiente plagas latas effusas inter nervos paginæ aversæ foliorum e fusco-nigras, floccis suberectis; peritheciis subiculo huic floccoso, creberime insidentibus globosis, nigris astomis vel saltem indistincte ostiolatis, sed demum globulo sporularum irregulari coronatis; ascis cylindræis; sporidiis monostichis, hinc abrupte attenuatis, septo (spurio?) inæqualiter divisis, 10-13 μ . longis, hyalinis.

Hab. in pagina inf. foliorum *Amelanchieris canadensis*, Center, New York, etc. Amer. bor. (COLLINS, PECK). — Mala dispositio nominum in Thuem. Diagn. M. U. Cent. VII-IX, p. 8, me decipit ut Thuemenio false tribuerim adscriptionem hujus speciei diversissimæ *Asterinæ orbiculari*, quod corrigendum (Cfr. Syll. p. 46 et 54). — Teste Cooke in Grev. XV, p. 82, *Lasiosphæria Russellii* B. et C. et *Lasioph. papilionacea* B. et C. sunt formæ *Dimer. Collinsii*.

15. **Dimerosporium guarapiense** Speg. Fungi Guar. Pug. I, n. 169. 1707
 — 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-fuligineis 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, fuliginis 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 medio 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 non-nihil 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.

16. **Dimerosporium æruginosum** Winter Grev. XV, p. 87. — Peritheciis 1708
densissime aggregatis, soros plerumque epiphyllas, rotundatos irregularesve, sæpe e pluribus vel multis minoribus compositos, atros, velutinos formantibus, mycelio ex hyphis repentibus, dense intertextis, ærugineo-atris formato insidentibus, globoso-hemisphæricis, poro simplici, sed distincto pertusis, atris, membranaceis, pilis copiosis, longis, flexuosis, atris ubique dense obsitis, 125-135 μ . diam.; ascis ellipticis vertice rotundatis, brevissime stipitatis, 8-sporis, 44-54 \approx 20-23; sporis conglobatis, oblongo-subclavatis, utrinque rotundatis, medio septatis, vix constrictis, dilutissime fuliginis, 18-19,5 \approx 7-8.

Hab. in foliis vivis Mikaniæ spec. cujusdam Sao-Francisco Brasiliæ (ULE). — *Dimerosporio Baccharidis* valde affine, sed præcipue colore mycelii, ascorum forma etc. distinctum.

17. **Dimerosporium Puiggarii** Speg. F. Puigg. n. 217. — Pulvinulis 1709
non parasiticis, parvis, atris, sparsis; peritheciis 80-90 μ . diam., aggregatis globosis, astomis, hyphis radiantibus fuliginis cinctis; ascis obclavatis, aparaphysatis, 30 \approx 7; sporidiis subclavulatis, primo hyalinis, dein chlorinulis, 9-10 \approx 3-3,5, 1-septatis, subconstrictis.

Hab. ad folia viva Senecionis cujusdam in dumetis prope Apiahy Brasiliæ. — An sporidia postremo 3-septata et species *Asteridio* proxima?

18. **Dimerosporium Ludwigianum** Sacc. Hedw. 1889, t. II, f. 2. — 1710
Maculis mycelicis amphigenis dilute fuliginis, vix determinatis, adpressis; peritheciis hinc inde confertis, globosis, astomis, superficialibus 75 μ . diam., opace fuliginis; hyphis radiantibus, conco-

loribus, septulatis, inæqualibus, laxe intertextis, adpressis, basi cinctis; ascis crassiuscule clavato-fusoideis, apice obtusiusculis, brevissime stipitatis, 25-28 \approx 9-10, spurie paraphysatis, octosporis; sporidiis distichis, breve fusoideis, 1-septatis, non constrictis, 10-12 \approx 3, hyalinis.

Hab. in foliis languidis *Lagenophoræ Billardieri* in m. Softy Austral. merid. (TEPPER, comm. prof. LUDWIG). — Affine *Dim. venturioidi* Sacc. et Berl., a quo differt hyphis adpressis, contextu peritheciis atro, sporidiis perfecte hyalinis etc.

19. **Dimerosporium venturioides** Sacc. et Berl. in Rev. Myc. 1885, 1711 tab. LIV, f. 3. — Peritheciis globosis v. globoso-conicis, astomis, subiculo atro insertis, contextu laxè parenchymatico, ochraceo; ascis minutis, cylindræo-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. *Convulvaceæ* 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.

20. **Dimerosporium imperspicuum** Speg. F. Guar. II, n 46. — Mycelio tenuissimo, effuso, laxiusculo, subarachnoideo, parum manifesto, matrici arctiuscule adnato in subiculo *Asteridii* cujusdam parasitante, ex hyphis tenuibus 2-3 μ . crass., laxè ramulosis parce septulatis olivaceis efformato; peritheciis hinc inde sparsis, globulosis, 40-80 μ . diam., astomis, atris, levibus, membranaceis, contextu parenchymatico-olivaceo; ascis obovatis, antice obtuse rotundatis crassissimeque tunicatis, postice rotundato-cuneatis, brevissime crasseque pedicellatis, 40-45 \approx 15-20, aparaphysatis, octosporis; sporidiis inordinate constipatis, elliptico-subobovatis, utrinque obtusiusculis, 16-17 \approx 6, medio 1-septato-subconstrictulis, pallide fumoso-rufescentibus.

Hab. ad folia viva *Billbergiæ* cujusdam in *Asteridio* parasitans, prope Guarapí Brasilæ.

21. **Dimerosporium? latericium** Speg. F. Puigg. n. 223. — Peritheciis in subiculo atro, velutino, hypophyllo, 3-8 mm. diam., constipatis globosis, rubro-latericiis, glabris, astomis, 100-120 μ . diam.; ascis piriformibus, tunica fuscescente instructis, paraphysatis, 80-90 \approx 50-60; sporidiis didymis, fuligineis, 35-40 \approx 20.

Hab. ad folia viva *Velloziæ* in silvis prope Itabirã do Cam-

po secus Rio das Velhas Brasilæ (J. ARECHAVALETA). — Species elegantissima *Parodiellæ? melioloidi* (B. et C.) Wint. affinis, nisi identica, facillime novi generis inter *Nectriaceas* et *Perisporiaceas* mediæ typum sistens.

22. **Dimerosporium nimbosum** Ell. et Mart. in Journ. of Myc. 1886, 1714
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, $\frac{1}{5}$ -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, prominulo, papilliformi ornatis; ascis subcylindricis, 70-80 \approx 10-14, subsessilibus, copiose paraphysatis; sporidiis octonis, distichis, oblongo-cylindræis, 16-26 \approx 5-6, luteis, primo binucleatis, dein uniseptatis, ad septum vix constrictis.

Hab. in caulibus vivis *Smilacis*, Florida Amer. bor.

23. **Dimerosporium erysiphoides** E. et E. Journ. Myc. 1888, p. 121. 1715
— Amphigenum; peritheciis sparsis, astomis, globosis, 100-115 μ . diam., mycelio parco ex hyphis gracilibus, brunneis, ramosis efformato, appendicibus 15-20, brevibus, expansis, 30-40 \approx 3, plerumque 1-3-septatis, brunneis, apice imperfecte bilobis; ascis oblongis, subsessilibus, 35-40 \approx 12-14 (paraphysibus?); sporidiis distichis, acute ellipsoideis, 1-septatis, constrictis, loculis magne uninucleatis, 15-18 \approx 6-7.

Hab. ad folia emortua *Cynodontis Dactyli*, St. Martinsville Amer. bor. — Adsunt perithecia (spermogonia?) minora, exappendiculata, sporulis paucis, globosis, brunneolis, 4-5 μ . diam. instructa.

24. **Dimerosporium? dubiosum** Speg. Fung. Guar. Puigg. I, n. 170. 1716
— 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 spongioso-coriacello, rufo-fuligineo, subopaco; ascis cylindræis, 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, Pastorèo de Caâ-guazû Brasil.

25. **Dimerosporium afflatum** Winter. Grev. XV, p. 87. — Mycelio plasmas rotundatas v. subirregulares, interdum confluentes, $\frac{1}{2}$ -1 $\frac{1}{2}$ mm. 1717
latas, epiphyllas, sparsas, atras, opacas, tenuissimas formante, ex hyphis repentibus, arctissime adnatis, valde ramosis, crassis, fuliginosis dense intertexto; hyphopodiis numerosis, alternantibus, sessilibus, hemisphæricis sæpe parum crenatis vel angulatis; peritheciis densissime aggregatis inter mycelii hyphas confertissimis angulato-subglobosis, contextu indistincto, tenuissimo, dilutissime fuliginosis, appendiculis paucis filiformibus, curvatis flexuosisve, hyalinis obsitis, usque 80 μ . diam.; ascis in quoque perithecio paucis (4-6), globosis seu ovatis, sessilibus, 8-sporis, 37-41 \approx 26-36; sporidiis conglobatis oblongis parum inæquilateralibus, utrinque rotundatis, medio septatis, vix constrictis cellula inferiori parum angustiori, hyalinis, 24-25 \approx 10.

Hab. in foliis vivis plantæ ignotæ, Sao-Francisco Brasiliæ (ULE).

26. **Dimerosporium meliolicolum** Speg. F. Puigg. n. 221. — Parasitans; hypothallo mucedineo; peritheciis globosis, astomis, glabris, 80-100 μ . diam., ascis obclavulatis, paraphysatis, 30-35 \approx 8; sporidiis obovatis, pallide olivaceis, medio 1-septato-constrictis, initio 4-guttatis. 1718

Hab. in Meliola quadam ad folia plantæ indeterminatæ pr. Apiahy Brasiliæ.

27. **Dimerosporium microsporium** Speg. F. Puigg. n. 220. — Parasitans; hypothallo fibro-mucedineo, olivascente; peritheciis globosis, astomis, glabris, 80-100 μ . diam.; ascis subcylindræis, paraphysatis, 28-30 \approx 7-8; sporidiis obovatis, pallide olivaceis, 2-3-stichis, 7-9 \approx 3,5, 1-septatis, vix constrictis. 1719

Hab. ad folia plantæ ignotæ in Meliola quadam parasiticum pr. Apiahy Brasiliæ.

28. **Dimerosporium paurotrichum** Sacc. et Berl. in Rev. Myc. 1885, tab. LIV, fig. 2 sub *D. oligotricho*. — Peritheciis paginam superiorem foliorum occupantibus, hyphis dendritice ramosis insiden- 1720

tibus, 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.

29. **Dimerosporium Asterinarum** Speg. F. Puigg. n. 216. — Perithe- 1721
ciis astomis, globosis, pilis paucis, circinatis, apice integris acutis pallidoribusque, 30-50 \approx 4-5, inspersis, 80-100 μ . diam.; ascis obclavulatis, parce paraphysatis, 50-60 \approx 14-18; sporidiis subcylindraceis, pallide olivaceis, 2-3-stichis, 18-20 \approx 4-5, medio 1-septatis, subconstrictis.

Hab. ad folia viva plantæ ignotæ in Asterinis parasitans, pr. Apiahy Brasilæ. — Stylosporæ quoque fusoidæ, 20-22 \approx 2-2,5 vel obclavulatae, chlorinæ, continuæ sæpe adsunt. An huc *Asterina Wrightii* B. et C.?

30. **Dimerosporium tropicale** Speg. Fungi Guar. I, p. 168. — Epi- 1722
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 subvirgineis prope Guarapí Brasil.

PARODIELLA Speg. — Sacc. Syll. I, p. 717. — Monente cl. Spegazz. in litt., huc duco inter Perisporiaceas præsens genus Sphæriaceis jam relatam.

1. **Parodiella Banksiæ** Sacc. et Bizz. — Peritheciis hypophyllis, dense gregariis, superficialibus, globulosis, nigris, punctiformibus, 100-110 μ . diam., subastomis, glabris, basi hyphulis, paucis cinctis; ascis tereti-clavulatis, sessilibus, apice truncatis, octosporis, 50-55 \times 10; paraphysibus bacillari-clavulatis; sporidiis distichis, fusoideo-oblongis, constricto-1-septatis, 14-15 \times 4-5, olivaceo-fuscis. 1723

Hab. in pag. inf. foliorum subviventium *Banksiæ* marginatæ in New-South-Wales Australiæ. — Mycelium fere nullum, ergo non *Dimerosporium*.

2. **Parodiella rigida** E. et E. Journ. Mycol. 1888, p. 62. — Peritheciis gregariis superficialibus, depresso sphaericis, rugulosis, ostiolo nullo manifesto, 100-120 μ . diam., mycelio parco, brunneo, repente cinctis; ascis oblongis, sessilibus, 60-70 \times 12-15, cito evanescentibus; paraphysibus (?); sporidiis subdistichis, ovato-oblongis, brunneis, 1-septatis, profunde constrictis, 15-20 \times 7-9, articulis subinde secedentibus; peritheciis pycnidicis similibus; sporulis oblongis, 15-18 \times 7-8, 1-nucleatis. 1724

Hab. in foliis emortuis *Pini rigidæ*, plures ante menses jam dejectis et adhuc iis hærentibus, Newfield, N. J. Amer. bor.

3. **Parodiella Pentanisiæ** (Cooke) Sacc., *Dothidea Pentanisiæ* Cooke Grev. XI, pag. 96. — Amphigena; maculis suborbicularibus brunneis; peritheciis convexis, atris, nitidis, subrugosis, in maculas congestis; ascis elliptico-clavatis, latis; sporidiis ellipticis, uniseptatis, medio constrictis, loculo inferiore tenuiore, fuligineis 18-20 \times 6. 1725

Hab. in foliis *Pentanisiæ* (?) Lake Nyassa Africae (THOMSON).

4. **Parodiella fruticicola** E. et E. Journ. Mycol. 1888, p. 97. — Peritheciis obovatis, primo astomis, circ. 1 mm. diam., nigris, supra applanatis et tandem umbilicato-collapsis irregulariterque sublacinatis, seriatim erumpentibus, sæpe dense confertis sed non confluentibus; ascis subcylindræis, 100-150 \times 15-20; paraphysibus cylindræis, subtus ramosis, vix septatis, evanescentibus; sporidiis monostichis vel rarius plus minus distichis, late fusoideo-oblongis, subinæquilateralibus, 1-septatis, stramineis, 30-35 \times 8-15. 1726

Hab. in caulibus *Clematidis ligusticifoliæ* emortuis, Sand Coulee Montana Amer. bor. (F. W. ANDERSON).

5. **Parodiella paraguayensis** Speg. Fungi Guar. Pug. I, n. 226. — Peritheciis epiphyllis, densissime aggregato-constipatis, crustam atram, granulosa, superficiem foliorum obtegentium efficientibus, globulosis, 200-225 μ . diam., atris, glabris, vix rugulosis, ostiolo 1727

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-guazû Brasiliæ.

6. **Parodiella cæspitosa** Winter in *Hedwigia* 1885, pag. 256. — Peritheciis epirarius 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. ULE).

7. **Parodiella sphærotheca** Pat. Journ. Bot. 1890, p. 63. — Maculis epiphyllis, numerosis, orbicularibus, fulvis, parvis, 3-5 mm. diam., parum distinctis; peritheciis minutissimis, 60-120 μ . diam., punctiformibus, folio adhærentibus, superficialibus, in centro maculæ gregariis, subglobosis, nigris, astomis, demum stellatim laceratis, contextu brunneo, parenchymatico, radiato; ascis globosis, stipitatis, 25 μ . diam., 8-sporis; sporidiis ovoideis, elongatis, 14-15 \approx 5, utrinque obtusis, rectis vel medio vix constrictis, 1-septatis, hyalinis, dein viridulis, demum brunneis.

Hab. in foliis *Compositarum*, Fau-keûn, Tonkin Asiæ orient. — Species generibus *Dimerosporio* et *Microthyrio* accedens.

8. **Parodiella circumdata** (Kunze) Rehm Rev. Hyst. Dub. p. 30, *Hysterium circumdatum* Kunze in herb. Duby. — Peritheciis in medio macularum nigrescentium, oblongarum vel rotundarum paginæ foliorum superioris gregariè sessilibus, subrotundis, corrugatis, nigro-fuscis, poro conspicuo deficiente, $\frac{1}{3}$ mm. diam.; ascis clavatis, 8-sporis, 60-70 \approx 9; sporidiis distichis, oblongis, obtusis, rectis, bicellularibus, utraque cellula plerumque 1-nucleata, medio inter-

Seynes

dum subconstrictis, fuscis, tenuiter muco gelatinoso obductis, 12-15 \approx 5; paraphysibus teneris, filiformibus, hyalinis.

Hab. in foliis *Palmarum* (?) (herb. SCHWAEGRICHEN).

9. **Parodiella melioloides** (B. et C.) Winter in Hedwigia 1885, p. 257, 1731
207, *Sphæria melioloides* B. et C. Fungi from Cuba n. 849, *Rosellinia melioloides* Sacc. Syll. I, pag. 276, *Nectria megalospora* Sacc. et Berl. in Rev. Myc. 1885, p. 157. — Peritheciis globosis, astomis, minutis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam., pruina amœne cinnabarina tectis, in mycelio rufo-fuligineo, septato, ramoso sitis; ascis magnis, centro inflatis, sursum leniter rotundatis, crasse tunicatis, in stipitem brevissimum desinentibus, aparaphysatis, 120-130 \approx 35-45, octosporis; sporidiis oblongatis, apice rotundatis, didymis, medio parum constrictis, loculo superiore longiore, 40-42 \approx 12-15, diu hyalinis vel luteolis, granulosis, demum flavo-brunneolis.

Hab. in foliis coriaceis in Cuba et Brasilia

Sect. 4. Phragmosporæ.

PERISPORIUM Fr. — Syll. I, p. 55.

1. **Perisporium dilabens** Karst. in Hedw. 1889. — Peritheciis plus 1732
minus gregariis, superficialibus, sphæroideis, basi applanatis, levissimis nitentibus, atris, poro pertusis, contextu membranaceo, parenchymatico, atro-fuligineo, circ. 0,2 mm. lat.; ascis oblongatis, rectis vel curvulis; 45-55 \approx 15-18, in stipitem longiusculum, 35-40 μ . long., filiformem attenuatis; sporis 8-nis, conglobatis, olivaceis, 3-5-septatis, illico in articulos extimos sphæroideo- vel conoideo-ellipsoideos, 9-12 \approx 6-7, interioresque subsphæroideo, 6-7 μ . diam., dilabentibus; paraphysibus propriis vix ullis.

Hab. ad funem cannabinum vetustum pr. Mustiala Fennicæ (O. KARSTEN).

2. **Perisporium? Matricariæ** Rich. Cat. Champ. Marn. n. 1085. — Ascis 1733
nullis visis; sporidiis levibus, obovatis, pallide brunneis.

Hab. in caulibus putridis *Matricariæ* fragmentis commixtis, Marne Gallicæ. — Habitus exterior *Mycogalactis parietini*.

3. **Perisporium? occultatum** Ces. Bot. Zeit. 1858, p. 302. — Subcu- 1734
taneum et sæpe cuti secedenti apice peritheciolorum adhærens; perithecio carbonaceo, intus tunica membranacea prædita; ascis..... nullis visis.

Hab. in caule *Pastinacæ sativæ*, Vercelli Ital. bor.

MELIOLA Fr. — Syll. I, p. 60.

1. **Meliola arachnoidea** Speg. F. Puigg. n. 237. — Subiculo arachnoi- 1735
deo-maculari, 1-5 mm. diam., glabro, hyphopodiis subsessilibus,
alternis, e globoso ovatis ornato, 15-16 \approx 7-8; peritheciis globosis,
atris, glabris, 150-200 μ . diam.; ascis ellipsoideis, 60 \approx 21, 2-sporis,
aparaphysatis; sporidiis e fronte elliptico-cylindraceutis, e latere
cylindraceuto-compressis, 4-septatis, fuligineis, 38-40 \approx 15-16 \approx 12.

Hab. ad folia viva Bignoniaceæ speciei cujusdam in dumetis prope Apiahy Brasilæ. — Species *M. brasiliensi* Speg. valde affinis sed tamen, ut videtur, satis distincta.

2. **Meliola Andromedæ** Pat. in Rev. Myc. 1888, t. 69, f. 5-6. — Ma- 1736
culis orbicularibus, aterrimis, tenuibus, glabris, dendriticis, valde
adhærentibus, 3-6 mm. lat.; mycelio repente radiante brunneo,
septato; hyphopodiis alternis, ovoideis; setis conidiophoris nullis;
peritheciis 2-3 in quaque macula globulosis, nigris, 300-350 μ .
diam., rugulosis, facile secedentibus; ascis ovoideis, obtusis, breve
stipitatis, bisporis; sporidiis elongatis, rectis, obtusis, 3-septatis,
leniter constrictis, 50-55 \approx 15-16.

Hab. in pag. infer. Andromedæ salicifoliæ, Ile de France (Herb. Mus. Par.). — *M. inermi* affinis.

3. **Meliola tenella** Pat. Rev. Myc. 1888, t. 69, f. 18-20. — Maculis 1737
amphigenis exiguis, 1-3 mm. diam., nigris, fugacibus, villosis; pe-
ritheciis globulosis, rugulosis, 120-140 μ . diam.; ascis ovoideis, sub-
sessilibus, sæpe 2-sporis, rarius 4-sporis; sporidiis ovoideo-oblon-
gis, utrinque rotundatis, brunneis, 4-septatis, constrictis, 50-60 \approx
12-17; setis erectis numerosis, 300-400 μ . long., rufo-brunneis,
continuis in ramos duos integros, rarissime dichotomos divisis; my-
celio repente, gracili, 6-8 μ . crass., ramoso; hyphopodiis alternis
ovoideo-oblongis.

Hab. in foliis Murrayæ, Tonkin (BALANSA). — E grege *M. furcata*.

4. **Meliola crustacea** Speg. F. Puigg. n. 235. — Subiculo crustaceo, 1738
maculari, glabro, 2-4 mm. diam., hyphopodiis 30-35 \approx 15-20, cre-
bris, suboppositis, magnis, ellipticis vel obovatis, levibus ornato;
peritheciis globosis, atris, glabris, 200 μ . diam.; ascis ovoideis, 70-
80 \approx 45-50, 2-sporis; sporidiis ellipsoideis, 4-septatis, fuligineis,
60-62 \approx 30-34.

Hab. ad folia viva Drymidis speciei cujusdam in dumetis pr.

Apiahy Brasiliæ. — An huc *M. corallina* Mont.?; sed sporidia non 3-septata.

5. **Meliola calva** Speg. F. Puigg. n. 233. — Subiculo effuso, tenuis- 1739
simo, 3-5 mm. diam., hyphis, hyphopodiis alternis, obovato-angu-
latis, 15-20 \approx 12-13, donatis, setulis destitutis composito; perithe-
ciis minutis, glabris, 150-220 μ . diam.; ascis ellipsoideis, 2-
rarius 3-sporis, 50-70 \approx 30-35; sporidiis cylindræis, utrinque rotundatis,
4-septatis, fuligineis, 50-55 \approx 18-20.

Hab. ad folia viva subcoriacea Laurinearum in silvis pr. Apiahy Brasiliæ. — Species jam sub *M. penicillata* Lév. (Fung. arg. pug. IV, n. 117) imprudenter edita, ob hyphas *Podosporii Penicillii* Speg. quibus erat parasitice infecta. *M. penicillata* Lév., speciminibus typicis inspectis, non est *Meliola!* (Speg. loc. cit.).

6. **Meliola Melastomacearum** Speg. F. Puigg. n. 232. — Subiculo vix 1740
evoluto, 0,5-1 mm. diam., hyphopodiis obovatis, levibus, 20 \approx 24,
ornato, setulis destituto; peritheciis globosis, hyphis paucis basi
ornatis, 140-160 μ . diam.; ascis non visis; sporidiis ellipsoideis, 4-
septatis, fuligineis, 36-37 \approx 14-16, ad septa vix constrictis.

Hab. ad folia viva Melastomacearum in dumetis pr. Apiahy Brasiliæ.

7. **Meliola Puiggarii** Speg. F. Puigg. n. 228. — Subiculo tenuissimo, 1741
maculari, 2-5 mm. diam., setulis destituto, hyphopodiis globoso-an-
gulosis, 12-14 \approx 14, cellula unica, 14-16 \approx 5-7 pedicellatis, ornato;
peritheciis globosis, atris, papillosis, setulis subhyalinis, larviformi-
bus, 100-130 \approx 20-25, inspersis, 150-180 μ . diam.; ascis ellipsoi-
deis, 2-3-sporis; sporidiis triseptatis, fuligineis, 40-50 \approx 14-16.

Hab. ad folia viva Rubi speciei cujusdam in dumetis prope Apiahy Brasiliæ. — Species prædistincta, *M. sanguineæ* Peck affinis!

8. **Meliola pulchella** Speg. F. Puigg. n. 227. — Subiculo tenuissimo, 1742
effuso, atro, setulis paucis apice integris, hyphopodiis parcis, pedi-
cellatis, subglobosis, 10-12 μ . diam., donato; peritheciis globosis,
glabris, verruculosis, atris, 200-220 μ . diam.; ascis ellipsoideis v.
piriformibus, 50-60 \approx 30-40, breviter crasseque pedicellatis, 2-4-spo-
ris; sporidiis 3-septatis, fuligineis, loculis 2 extimis subconoideis
minoribus, 40-44 \approx 15-16.

Hab. ad folia viva Myrtaceæ cujusdam in dumetis pr. Apiahy Brasiliæ. — Species *M. gangliferæ* B. et C. et *M. guaranitice* Speg. peraffinis, ab utraque hyphopodiis globulosis levibus atque loculis apicalibus sporidiorum conoideis recedens.

9. **Meliola armata** Speg. F. Puigg. n. 231. — Subiculo maculari, 1743
glabro, 3-5 mm. diam., hyphopodiis clavulatis alternis, 50-60 \approx 10-14; peritheciis globosis, atris, glabris, basi setulis apice integris armatis, 100-180 μ . diam.; ascis ellipsoideis, apice crasse tunicatis, basi brevissime crasseque pedicellatis, 60 \approx 32-45, 2-4-sporis; sporidiis ellipsoideis, 4-septatis, fuligineis, 48-55 \approx 20-24.

Hab. ad folia coriacea viva *Myrsines?* speciei cujusdam in silvis prope Apiahy Brasiliæ.

10. **Meliola delicatula** Speg. F. Guar. II, n. 63. — Pulvinulis hypophyl- 1744
lis, latiusculis, 1 cm. diam., effuso arachnoideis centro subcompactiusculis, marginem versus gradatim tenuioribus ac nubiloso-evanescentibus, atris, velutinis; hyphis repentibus, flexuosulis, laxiusculis, gracilibus 5-6 μ . fuligineis, pellucidis, septulatis, opposite rarius alternatim ramosis, hyphopodiis paucis, globoso- vel ovoideo-angulosis, 8-10 μ . 1-cellulari-pedicellatis, alternis, ornatis; setulis laxis, erectis, rectis, rigidulis, 180-120 \approx 7-8, atris, opacis, apice acutis, integerrimis, basi teretibus non v. vix curvulis; peritheciis centro pulvinulorum plus minusve confertiusculis, globosis, 150-200 μ . diam., atris coriacellis, glabris, vix basi setulis 5-10-brevioribus cinctis, levibus; ascis non visis; sporidiis cylindraceo-subellipticis utrinque obtusiuscule subrotundatis, 45-50 \approx 11-12, 4-septatis ad septa constrictulis, loculo intimo submajore, opace fuligineis.

Hab. ad folia viva *Myrsinis* cujusdam in dumetis montanis, Sierra de Peribebuy Brasiliæ Amer. merid.

12. **Meliola Desmodii** Karst. et Roum. Revue Myc. 1890, p. 77. — My- 1745
celio plagulas epiphyllas, majusculas, 2-4 mm. latas, suborbiculares, sæpe confluentes, tenues, atras formante, ex hyphis repentibus, ramoso-intricatis, atro-fuscis, hyphopodiis alternis, piriformibus v. ovoideis integris, sessilibus, fuscis, 12-15 \approx 10, ornatis constante; setulis erectis, e basi perithecorum ortis, simplicibus, substrictis v. subflexuosis acutis, atris, 150-200 \approx 6-7; peritheciis gregariis vel confertis, globulosis v. ovoideis, verruculosis, astomis, atris, 75-140 μ .; ascis non visis, verisimiliter bisporis; sporidiis cylindraceis v. elongatis, utrinque obtusis, rectis v. subrectis, 4-septatis, ad septa leviter v. vix constrictis, brunneis, semipellucidis, 40-45 \approx 10-6.

Hab. ad folia viva *Desmodii* cujusdam in Tu-Phap, Tonkin.

13. **Meliola eriophora** Speg. F. Guar. II, n. 62. — Pulvinulis epiphyll- 1746
lis suborbicularibus, 2-5 mm. diam., sparsis vel hinc inde confluentibus, aterrimis lanuginoso-hirsutis, arctiuscule matrici adnatis; hyphis repentibus, dense intertextis, crassiusculis 10-15 μ . cr., atris

opacis, dense opposito-ramosis, ramulis v. hyphopodiis subclavulatis 25-30 \approx 15, opacis, rectis, in juventute pellucidis ac transverse subarcuato-rugulosis, alternis, sessilibus, densis ornatis; setulis densiusculis, erectis, sursum subattenuatis, arcuato-subcircinatis, integris, deorsum non v. vix incrassatis, 250-300 \approx 10-15, atris, opacis; peritheciis hinc inde sparsis setulis absconditis, globosis, 150-200 μ . diam., non collabascens, coriacellis, opacis, glabris, basi nudis v. setulis nonnullis cinctis, verruculosis, contextu indistincto; ascis ellipticis, 60 \approx 30, 2-3-sporis, basi crassissime brevissimeque umbonato-stipitatis; sporidiis cylindræis, non v. vix subcurvulis, utrinque rotundatis, 48-58 \approx 15-22, 4-septatis, ad septa constrictulis, loculis subcuboideis, omnibus subæqualibus, primo diuque hyalinis dein fuliginis.

Hab. ad folia viva Fici Iba poy Parodi, in silvis montanis pr. Paraguari Brasilæ.

14. **Meliola tonkinensis** Karst. et Roum. Rev. Myc. 1890, p. 77. — Mycelio hypophyllo, suborbiculariter expanso, 4-6 mm. lato, nonnumquam confluyente, maculari, parcissimo, atro, ex hyphis brevissimis, repentibus, septatis, fuliginis, ramosiusculis, hyphopodiis destitutis, setulas exsurgentes, rigidiusculas, septatas, simplices, fuliginis, 5-7 μ cr., emittentibus composito; peritheciis in plagulis laxè gregariis ovoideis vel conoideo-ovoideis, verruculoso-scabris, astomis aterrimis, 100-150 μ . diam.; ascis oblongatis, bisporis, 50-60 \approx 19-20 μ .; sporidiis oblongatis vel ellipsoideo-oblongatis, ut plurimum utrinque aliquantulum attenuatis, obtusis 4-septatis, ad septa leviter v. vix constrictis, ex hyalino brunneis, semipellucidis, rectis, 34-46 \approx 15-18. 1747

Hab. ad folia Fici cujusdam in Tu-Phap, Tonkin.

15. **Meliola reticulata** Karst et Roum. Rev. Myc. 1890, p. 78. — Mycelio epiphylllo, laxissimo, ex hyphis repentibus, distantibus, adnatis, divaricato-ramosis, articulatis, atris fuliginis semipellucidisque (sub lente), 5-6 μ . cr., hyphopodiis ovoideis, sphæroideis, pedicellatis aut ampulliformibus, alternis, 12-27 \approx 8-13, setulis destitutis constante; peritheciis sparsis, rotundatis, atris, dein dehiscentibus, 60-85 μ . diam.; ascis non visis; sporidiis oblongatis, vulgo utrinque leviter attenuatis, obtusis, 4-septatis, ad septa vix vel leviter constrictis, brunneis, semipellucidis, 35-46 \approx 15-16. 1748

Hab. ad folia Fici cujusdam in Tu-Phap, Tonkin.

16. **Meliola quercina** Pat. Journ. Bot. 1890, p. 61, f. 5. — Epiphylla; maculis orbicularibus, confluentibus vel sparsis, tenuibus, nigris, 1749

dendroideo-limitatis, 5-15 mm. lat.; setulis numerosissimis, 1-1½ mm. long., nigris, e filamentis gracilibus compositis, hirtis; mycelii ramulis crassis, brunneis, 10-12 μ . cr.; hyphopodiis stipitatis, ovoideis, brunneis, 22-26 \approx 10; peritheciis globulosis, nigris, parenchymaticis, astomis, 260 μ . diam.; ascis elongatis, cylindraceutis, in stipitem attenuatis, apice rotundatis, 100 \approx 12; sporidiis octonis, distichis, fusoides v. clavatis, 5-septatis, brunneis, loculis extimis hyalinis et multo minoribus, leniter torulosis, 38-40 \approx 9.

Hab. ad folia viventia *Quercus* in silva pr. Fu-Phap, Tonkino Asiæ orient.

17. **Meliola amphitricha** Fr. — Huc spectat, teste Cooke, *Meliola capnodioides* Thüm. (n. 278).

18. **Meliola bidentata** Cooke in Rav. F. Amer. n. 128, Grev. VI, 1750 p. 37. — Peritheciis globosis, 150 μ . diam., appendicibus parvis, erectis, apice bidentatis; ascis saccatis; sporidiis 45 \approx 18, leniter constrictis, utrinque rotundatis, plerumque in quoque asco binis.

Hab. in foliis *Bignoniæ*, Florida Amer. bor. (RAVENEL).

19. **Meliola nidulans** (Schw.) Cooke in Grev. 1882, XI, pag. 37, 1751

Chaetosphaeria nidulans (Schw.) Rehm Ascom. n. 287, *Sphaeria nidulans* Schw. in Syn. f. Carol. sup. p. 45, n. 185, Fr. S. M. II, p. 443. — Peritheciis gregariis, globosis, subtuberculatis, papillatis, atris, subiculo piloso nigro cinctis; hyphis rigidis simplicibus, basi 8 μ . cr., obtusis, brunneis; ascis ellipsoideo-oblongis, 2-4-sporis, 90 \approx 30, paraphysibus ramulosis, articulatis, 6 μ . cr., obvallatis; sporidiis oblongis, obtusis, 3-septatis (4-septatis Cooke), leniter constrictis, 40-50 \approx 17, fuligineis, circulo mucoso densissimo obvolutis.

Hab. ad ramulos subvivos Corni in Carolina etc. Amer. bor. — Subiculum 5 cm. longum, ambiens, subinnatum, nigrum v. fuscescens, byssaceum, *Helminthosporium* referens ob fibras rigidas breves suberectas laxè intertextas. Perithecia minora, dein pertusa, demum fracta referunt cupulas in subiculo.

20. **Meliola octospora** Cooke Grev. XI, pag. 38. — Maculis orbicularibus, minutis, velutinis; peritheciis mediæ magnitudinis, appendicibus erectis, bis terve dichotomis (ut in *Meliola molli*); ascis crasse saccatis, plerumque 8-sporis; sporidiis 3-septatis valde constrictis, 45 \approx 18, brunneis.

Hab. in foliis in insula Mauriti.

21. **Meliola triseptata** B. et Br. — Syll. I, p. 70. — Effusa, magna, velutina; sporidiis 3-septatis, 35 \approx 12, utrinque rotundatis, constrictis, fuligineis. — In ins. quoque Ceylon. Affinis *M. amphitrichæ*.

22. **Meliola seminata** B. et C. — Syll. I, p. 71. Adde: ascis saccatitis; sporidiis 4-septatis, brunneis.
23. **Meliola cryptocarpa** Ell. et M. Amer. Nat. 1883, p. 1284, Journ. 1753
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 \times 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-ovoideis, 8-sporis; sporidiis brunneis, oblongis vel clavato-oblongis, distichis, 3-5-septatis, 30-60 \times 10-12.
- Hab.* in foliis Gordonie Lasianthus, Florida Amer. bor.
24. **Meliola sororcula** Speg. F. Puigg. n. 230. — Purpureo-maculans, 1754
epiphylla; subiculo parcissimo, 2-5 mm. diam., radiante, atro, setulis destituto, hyphopodiis subglobosis, levibus, 12-14 \times 14, 1-cellulari-pedicellatis, 5-10 \times 5-6, ornato; peritheciis globosis, atris, verruculosus; setulis subhyalinis, larviformibus, 80-100 \times 18-20, in-spersis, 150-180 μ . diam.; ascis ellipsoideis, 2-sporis; sporidiis 4-septatis, fuligineis, 45-60 \times 18.
- Hab.* ad folia viva Baccharidis pingreæ in dumetis prope Apiahy Brasiliæ. — Species pilorum perithecialium forma *M. brasiliensi* affinis, *M. sanguineæ* Peck etiam cognata, ab utraque sporidiis 4-septatis mox dignoscenda.
25. **Meliola Spegazziniana** Wint. in Spegazz. F. Guar. II, n. 64. — 1755
Mycelio maculas effusas irregulariter orbiculares, sæpius confluentes hypophyllas, tomento foliorum absconditas, non v. parcissime setulosas efficiente; hyphis repentibus, pellucidis, septulatis, 8 μ . cr., alterne ramosis, flexuosulis, dense intricatis; hyphopodiis paucis alternis, obovatis, pedicellatis, 20 \times 8, a ramululis parum diversis; setulis paucissimis, erectis, 300-500 \times 5-10, subopacis, atris, subrigidulis, apice subrugulosis, obtusis, integris; peritheciis globosis, 250-300 μ . d., siccis collabascensibus, superficialibus, centro macularum laxe gregariis glabris v. basi vix setulis paucis cinctis, verruculosus, atris, subcoriaceis, contextu indistincto; ascis ovatis, 3-4-sporis, mox diffluentibus; sporidiis ellipticis, utrinque attenuato-rotundatis, 50-62 \times 20-24, loculo medio conspicue crassiore longiore, extimis hemisphæricis parvulis, fuligineis.

Hab. ad folia Compositarum arborescentium in silvis Paraguari, Guarany Amer. austr. — Species in Fung. guar. pug. I, sub num. 174 et sub nomine *M. amphitrichæ* Er. edita, a qua tamen longissime abhorret fabrica magnitudineque omnium partium.

26. **Meliola cladotricha** Lév. — Sacc. Syll. I, p. 63, Winter in Hedw. 1885, I. — Ascis ovato-piriformibus, breviter pedicellatis, 8-sporis, 100-105 \approx 44-50; sporidiis conglobatis, cylindræis, utrinque late rotundatis 3-septatis, ad septa parum constrictis, muco hyalino obvolutis, badiis, 44-52 \approx 12-14.

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

27. **Meliola Niessleana** Winter in Hedwigia 1885, p. 200. — 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, 21-25 (cum stipite) \approx 14-17, gerentibus, setis rigidis, erectis, atris, obtusis, integris obsitis; peritheciis parvis, superficialibus, globosis, verruculosis, 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 v. curvulis, 3-septatis, badiis, ad septa perparum constrictis, 47-54 \approx 14-16.

Hab. in foliis vivis Rhododendri Chamæcisti pr. cauponam «Hinterhorn» faucium «Strub» Salisburgi Germ. (G. NIESSL) et in alpebus Venetis (SPERG.), socio *Dimerosporio maculoso*. — Sec. Rehm Asc. n. 898: sporidia 36-45 \approx 8-10; asci 90 \approx 30-36.

28. **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.

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

29. **Meliola densa** Cooke in Grevillea XII, pag. 85. — Hyporarius epiphylla, aterrima, velutina; maculis orbicularibus, 1 cm. latis

dein confluentibus; peritheciis globosis, atris, leniter verrucosis, 180 μ . diam., inter fibras erectas, apice curvulas, confertissimas quasi absconditis; ascis late clavatis, bisporis; sporidiis ellipticis, 4-septatis, constrictis, fuscis, 45 \approx 18.

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

30. **Meliola sanguinea** E. et Ev. in Journ. of Myc. 1886, p. 42. — 1759

Peritheciis membranaceis, $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., subastomis, levibus, sæpius epiphyllis, solitariis vel in maculis orbicularibus, subindeterminatis, mycelio repente, atro, ramoso, haustoriis alternatis, obovatis prædito efformatis, dense gregariis; ascis oblongo-obovatis, bisporis; sporidiis oblongo-cylindræis, leniter curvulis, 3-septatis, 38-44 \approx 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.

31. **Meliola Molleriana** Winter in Hedwigia 1886, pag. 98 et F. S. 1760

Thom. t. I, f. 1. — Mycelio plagas epiphyllas, dense sparsas, sæpe confluentes, rotundatas seu plus minusve irregulares, atras, $\frac{1}{2}$ -2 mm. latas formante, ex hyphis repentibus, flexuosis, laxe 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 v. 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 Malvaceæ adhuc ignotæ in insula S. Thomé Afr. occ.

32. **Meliola triloba** Winter in Hedwigia 1886, p. 97 et F. S. Thom. 1761

t. I, f. 5. — 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 cylindra-

ceis, utrinque late rotundatis, e latere visis parum curvatis, 4-septatis, fuscis, 36-44 \times 16-17,5.

Hab. in foliis vivis Cucurbitacearum in insula S. Thomè Afr. occ.

33. **Meliola aciculosa** Winter in Hedwigia 1886, p. 98 et F. S. Thom. 1762
t. I, f. 2. — Mycelio epiphylo, rarissime etiam hypophyllo, plerumque longe lateque effuso, folium totum laxe obducente v. plagas limitatas, sparsas, minutas, rotundatas v. 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 \times 19-32; sporidiis cylindræis, utrinque haud vel perparum attenuatis et late rotundatis, inæquilateralibus vel curvulis, 4-septatis, ad septa parum constrictis, fuscis, 30-37 \times 10,5-14.

Hab. in foliis vivis Cucurbitacearum aliarumque plantarum in insula S. Thomè Afr. occ.

34. **Meliola ganglifera** Kalchbr. Teste Winter (Confr. Rev. Myc. 1885), ^{Fig. 206.} sporidia sunt cylindræa, utrinque rotundata, 3-septata, ad septa parum constricta, opace atro-fusca, 47-51 \times 14.
35. **Meliola obesa** Speg. Fung. Guar. Pug. I, n. 179. — Epiphylla; 1763 mycelio subcrustaceo, subfragili foliorum epidermide arcte adhærente, tenui, plagulas orbiculares, magnitudine varias, 1-5 mm. diam., atras, opacas efficiente, ex hyphis sterilibus, repentibus, dense intertexto-ramosis, mucis conjunctis, hyphopodiis ovoideo-capitulatis, 20 \times 8-10, basi 1-2-septatis, suboppositis, ornatis efformato, hyphis conidiferis destituto; peritheciis globosis vel globoso-depressis, 140-200 μ . diam., atris, glabris, granulosis, membranaceo-coriaceis, contextu subindistincto, crasse parenchymatico-celluloso, subopaco, atro-fuligineo; ascis bisporis, cito diffluentibus; sporidiis ellipticis, utrinque rotundatis, 30-32 \times 18-20, 4-septatis, ad septa constrictulis, oculis granuloso-guttulatis, primo hyalinis, dein opace fuligineis.

Hab. ad folia viva Rutacæ speciei cujusdam in silvis subvirginis prope Piragù Bras.

36. **Meliola Evodiæ** Pat. in Rev. Myc. 1888, t. 69, f. 13-15. — Ma 1764

culis aterrimis amphigenis, tenuibus, adhærentibus, ambitu dendriticis; mycelio ramoso brunneo, septato, 10 μ . cr., hyphopodiis alternis, ovoideo-obtusis pedicellatis; peritheciis globosis, 150-200 μ . diam., nigris, rugulosis; ascis ovoideis bisporis; sporidiis tereti-oblongis obtusis, brunneis, 4-septatis, leniter constrictis, 42-45 \approx 15; setis erectis dimorphis, aliis nigris, continuis, apice breve trifurcatis, ramulis incisus, aliis roseo-vinosis, crebre articulatis, aciculis superioribus (conidiis) sinuosis, oblique (ad zig-zag) et laxe superimpositis, 3-4-septatis, subroseis, 30-40 \approx 9-12.

Hab. amphigena in foliis *Evodiæ* in ins. Samoa (Herb. Mus. Par.).

37. **Meliola? clavatispora** Speg. F. Puigg. n. 241. — Subiculo ma- 1765

culari piloso, pilis apice integris, 120-18 \approx 6-8, hyphopodiis alternis, subglobosis, sessilibus ornato; peritheciis globosis, 200-250 μ . diam., pilosis, atris; ascis cylindræis, subclavatis, octosporis, persistentibus, aparaphysatis, 100 \approx 20-30; sporidiis clavulatis, 4-septatis, utrinque obtusis, opace fuliginæis, 40-45 \approx 12.

Hab. ad folia viva *Apocynæ* speciei cujusdam in silvis pr. Apiahy Brasilæ. — Species omnium partium fabrica a genere *Meliola* nonnihil recedens.

133:1422? 38. **Meliola bicornis** Winter in Hedwigia 1886, p. 99 et F. S. Thom. 1766

1123:1422? t. I, f. 9. — Mycelio 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 cylindræis vel cylindræo-subclavatis, utrinque rotundatis, 4-septatis, ad septa parum constrictis, fuscidulis, 35-44 \approx 12-14.

Hab. in foliis vivis *Leguminosarum* in insula S. Thomé Afr. occ. — Var. **constipata** Speg. Fung. Guar. II, n. 57: pulvinulis, sæpius epiphyllis, orbicularibus, 2-5 mm., sparsis v. confluentibus, arctiuscule matrici adnatis, subcrustaceo-pelliculosis, atris,

vix centro subhispidulis, hyphis repentibus, dense intricatis, 8-9 μ . cr., fuligineis, rectiusculis, densiuscule alterno- v. opposito-ramulosis; hyphopodiis confertis, alternis vel suboppositis, obovatis vel clavulatis, 1-cellulari-stipitatis, 12-16 \approx 10, fuligineis, non v. grosse 1-guttulatis; setulis sæpius centro pulvinulis evolutis, erectis, 80-200 \approx 5-7, rectis, rigidulis, apice obtusissimis v. subtruncatis, integris v. vix subbicrenatis, subpellucidis, ceterum atro-fuligineis, opacis, basi non v. vix curvulis, teretibus; peritheciis centro pulvinulorum dense constipatis, vivis globosis, 120-200 μ . diam., siccis non v. parce collabascentibus, atris, minute verruculosis, glabris v. basi setulis paucis minoribus cinctis; ascis ellipticis, basi crasse brevissimeque stipitatis, 60 \approx 22, 2-sporis; sporidiis cylindræis, utrinque rotundatis, 40-44 \approx 13-15, rectis v. subcurvulis, 4-septatis, ad septa parce constrictulis, loculis omnibus subæqualibus, fuligineis. Ad folia Leguminosæ cujusdam in Sierra de Peribebuy, Guarany Amer. merid.

39. **Meliola stenospora** Winter in Hedwigia 1886, p. 97 et F. S. Thom. 1767 t. I, f. 10. — 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 laxe piriformibus, varie lobatis, rectis, rarius curvatis, stipitatis, fuscis, cum parcis 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. Thomé Africæ occident.

40. **Meliola asterinoides** Winter in Hedwigia 1886, p. 96 et F. S. 1768 Thom. t. I, f. 3. — 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 ampulliformibus; peritheciis sæpe solitariis vel parcis, 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 Piperacææ cujusdam in insula S. Thomè Afr. occ.

41. **Meliola anastomosans** Winter in Hedwigia 1886, p. 96 et F. S. 1769 Thom. t. II. — Mycelio plagas minutas, $\frac{1}{4}$ - $\frac{1}{2}$ mm. latas, sæpe confluentes, plerumque epiphyllas, sparsas v. dense stipatas, atras, rotundatas v. irregulares formante, ex hyphis repentibus, ramosis, valde anastomosantibus, flexuosis curvatisque, fuscis contexto; hyphopodiis alternantibus, capitatis, integris, stipitatis, aliis plerumque oppositis, ampulliformibus; peritheciis gregariis, globosis, demum impressis et concavis, verruculosi, atris, 130-170 μ . diam.; ascis ellipticis seu elliptico-oblongis, breviter stipitatis, 2-4-sporis, 50-60 \approx 26-32; sporidiis cylindræis, 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.

42. **Meliola ambigua** Pat. Bull. Soc. Myc. 1888, p. 104. — Maculis 1770 minutis, orbicularibus, 1-3 mm. diam., nigris, sparsis v. confluentibus, mycelio crasso, brunneo, ramoso, septato, hyphopodiis alternis, ovoideis, obtusis, stipitatis; setulis sparsis, brunneis, erectis, crassis, apice simplicibus et obtusis, non septatis; peritheciis 4-8-gregariis, nigris, rugulosis, circ. 1 mm. diam., primo rotundatis, dein cupularibus; ascis ovoideis, obtusis, subsessilibus, 2-sporis, 40 \approx 15; sporidiis brunneis, rectis v. leniter curvulis, 4-septatis, ad septa subconstrictis, utrinque obtusis, 30-35 \approx 10-15.

Hab. ad folia viva Labiatarum, Lantanæ etc. Caracas, San Fernando, Maipures Venezuelæ. — *M. amphitrichæ* affinis sed setulis non septatis mox distincta. — Var. **major**: mycelio hyalino; ascis paullo majoribus, 55 \approx 25, 1-2-3-sporis; sporidiis 45-50 \approx 20. In foliis Evolvuli, Caracas Venezuelæ.

43. **Meliola Winterii** Speg. F. Guar. II, n. 53. — Pulvinulis epiphyllis 1771 orbicularibus, 4-6 mm. diam., sæpe hinc inde 2-3-confluentibus, villo foliorum fere absconditis atque intermixtis et tandem parum manifestis, atris, ex hyphis gracilibus, 4-7 μ . cr., fuliginosis, septulatis, flexuosulis, opposite v. alterne ramosis, hyphopodiis destitutis, vix ramululis curvulis, acutiusculis, 15 \approx 15, hinc inde alterne ornatis composito, setulis destituto; peritheciis globosis, 200-220 μ .

diam., subexserto-superficialibus, centro pulvinulorum laxè aggregatis, atris, glabris, verrucosis, membranaceis, contextu parenchymatico fuligineo donatis; ascis ellipsoideis, antice rotundatis, postice cuneatis, breviter crasseque pedicellatis, $65 \approx 30$, 2-sporis, mox diffluentibus; sporidiis elliptico-cylindræis, utrinque rotundatis, $50-55 \approx 20$, 4-septatis, ad septa parum constrictis, fuligineis.

Hab. ad folia viva Solani verbascifolii in silvis montanis in Sierra de Peribebuy, Guarany Amer. austr. — Species cum nonnullis aliis sub nomine *M. ludibundæ* Speg. edita, sed nunc momento cl. Wintero, sedulius inspecta bene riteque distincta.

44. **Meliola plebeja** Speg. F. Puigg. n. 238. — Subiculo pruinuloso- 1772
maculari, glabro, 2-10 mm. diam., hyphopodiis alternis quandoque ampulluliformibus quandoque globoso-ovatis, angulosis, pedicellatis, $20 \approx 25$, ornato; peritheciis globosis, $150-180 \mu$. diam., verrucosis, atris, glabris; ascis ellipsoideis, 2-6-sporis, aparaphysatis; sporidiis cylindræis, rectis vel subcurvulis, 4-septatis, fuligineis, $42-46 \approx 14-16$.

Hab. ad folia viva Solanaceæ? cujusdam in dumetis prope Apiahy Brasiliæ. — Var. **asperrima** Speg. l. c. n. 239: subiculo pruinuloso-maculari, glabro, hyphopodiis alternis e globoso trigonis v. subtrilobis ornato; peritheciis globosis, grosse pyramidato-verrucosis, atris, glabris; ascis non visis; sporidiis cylindræis, 4-septatis, fuligineis, $42-46 \approx 17-18$. In foliis vivis Solanææ cujusdam ibidem.

45. **Meliola malacotricha** Speg. F. Guar. II, n. 59. — Mycelio pla- 1773
gulas atras, suborbiculares, 1-3 mm. diam., sæpe confluenti-irregulares, pelliculoso-velutinas, matrici arcte adnatas efficiente; hyphis repentibus, dense opposito-vel subopposito-ramosis, pellucidis, septulatis, fuligineis, $5-6 \mu$. cr., hyphopodiis oppositis v. suboppositis, ovoideis v. subglobosis, pedicellatis, $10-12 \approx 5-8$, dense ornatis; setulis confertiusculis, molliusculis, pellucidis, 5-7-septatis, olivaceo-atris, apice pallidioribus, integris, obtusiusculis, $150-200 \approx 5-10$, basi non v. parce incrassatis; peritheciis centro plagularum laxè aggregatis, udis globosis, $150-200 \mu$. diam., siccis cupulato-collapsis, glabris, setulis paucis basi cinctis, levibus v. vix subrugosis, coriaceo-membranaceis, contextu parenchymatico, fusco-atro; ascis non visis; sporidiis cylindræis, utrinque obtusis, $28-38 \approx 9-16$, 4-septatis, ad septa leniter constrictis, fuligineis.

Hab. ad folia viva Dichondræ repentis in herbosis prope Paraguari et in silva Caá-guazú, Guarany Amer. merid. — Spe-

cies sub nomine *M. ludibunda* Speg. cum prioribus confusa, *M. Araliæ* peraffinis, a qua tamen recedit setulis mycelii molliusculis pellucidis obtusioribusque ac sporidiis conspicue brevioribus. An tantum ejusdem varietas?

46. **Meliola clavulata** Winter in Hedwigia 1886, p. 98 et F. S. Thom. 1774
t. I, f. 4. — Mycelio 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, verruculosus, 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 Convolvulaceæ cujusdam in insula S. Thomè Afr. occ.

47. **Meliola decidua** Speg. F. Puigg. n. 240. — Subiculo plagulas 1775
membranaceas, dense velutino-hirsutas, orbiculares, 3-6 mm. diam., maculis bullosis insidentes, facillime a matrice secedentes efficiente, aterrimo; hyphopodiis densis suboppositis obovatis, 20-25 \approx 15, setulis apice integris, 300-500 \approx 10, instructo; peritheciis in villo subiculi absconditis, globosis, 180-200 μ . diam., glabris, atris; ascis non visis; sporidiis cylindræis, 4-septatis, fuliginæis, 50-52 \approx 15-16.

Hab. ad folia viva Convolvulaceæ? cujusdam in dumetis pr. Apiahy Brasilæ.

48. **Meliola microspora** Pat. Bull. Soc. Myc. 1888, p. 104. — Myce- 1776
lio tenuiter crustaceo, nigro, folium omnino tegente; filamentis adpressis, gracilibus, brunneis, septatis, hyphopodiis aliis alternis 2-cellularibus, cellula supera subglobosa, 10 \approx 12, infera cylindræa et brevi, aliis oppositis, 1-cellularibus, apice angustatis; peritheciis globosis, 180 μ . diam., astomis, rugulosis; ascis ovoideis, 2-sporis; sporidiis parvis, brunneis, rectis, 28 \approx 8-10, 4-septatis, ad septa vix constrictis, utrinque obtusis.

Hab. ad folia plantæ herbacæe cujusdam, San-Fernando Venezuelæ.

49. **Meliola Spartinae** (Ell. et Ev.) Berl. et Vogl. Add. Syll. p. 395, *Di-* 1777
merosporium 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 fusoides-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, 18-30 \approx 4-5, demum imperfecte triseptatis.

Hab. in vaginis inferioribus emortuis *Spartinae* polystachyæ, Plaquemines Amer. bor. (LANGLOIS).

50. **Meliola Bambusæ** Pat. in Rev. Myc. 1888, t. 69, fig. 16-17, *M.* 1778
furcata Berl. et Roum. nec Lév. — Maculis nigris, orbicularibus, dendriticis, 4-8 mm. lat.; setulis erectis, nigris apice subviolaceis, 20-15 μ . cr., sursum ter patenti-furcatis, ramis primariis, 20-40 long. apice bifidis, ramulis 50-80 μ . long. apicibus divergenti-incisis; peritheciis globulosis, nigris, rugulosis, 250-300 μ . diam.; ascis ovoideis, subsessilibus, 2-3-4-sporis; sporidiis ovoideo-oblongis, brunneis, 4-septatis, constrictis, 50-55 \approx 18-22.

Hab. in foliis *Bambusæ*, Tonkin (BALANSA). — Mycelium repens, ramosum, septatum, hyphopodiis stipitatis ovoideis, obtusis, truncatis vel incisis.

51. **Meliola velutina** Winter in Hedwigia 1886, p. 97 et F. S. Thom. 1779
 t. I, fig. 8. — 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 distinctè undulato-tuberculatis, fusco-atris, 8-8,5 μ . crassis; hyphopodiis sparsis, irregularibus, sæpe varie lobatis, crenatis, plerumque curvatis, stipitatis, fuscis; peritheciis sparsis, depresso globosis, demum collabescentibus, umbilicatis et concavis, atris, 200-220 μ . diam.; ascis non visis; sporidiis subcylindraceis, 4-septatis, 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.

52. **Meliola tenuis** B. et C. Rav. Fungi Amer. exsic. n. 831 (sine 1780
 diagnosi). — Epiphylla, maculas atras subcirculares minutas, atras,
 velutinas formans; peritheciis globulosis, setulis rigidis, rectis acu-
 tis vestitis; ascis 2-4-sporis, ellipsoideis; sporidiis oblongis, $50 \approx$
 $18-20$, 4-septatis leniter constrictis, utrinque rotundatis, fuligineis.
 — Adsunt perithecia minora pycnidica; stylosporibus oblongis, 1-
 septatis, pluriguttulatis, hyalinis, $25-26 \approx 6-7$.

Hab. in foliis Arundinariæ, Darien Georgia Amer. bor.

53. **Meliola coronata** Speg. Fungi Guar. Pug. I, n. 175. — Epiphyl- 1781
 la; mycelio tenuissimo, effuso, plagulas fuscescenti-atras, parum
 perspicuas, sæpe confluentes, hinc inde efficiente, ex hyphis sterili-
 bus, radiantibus, repentibus, tortuosis, septulatis, hyphopodiis ca-
 pitatis, $20 \approx 10$, alternatim ornatis, fuligineis composito, hyphis co-
 nidiferis destituto; peritheciis majusculis, globosis, $200-250 \mu$.
 diam., centro plagularum insidenti-aggregatis, in sicco cupulato-
 collapsis, crasse papillulosis, deorsum nudis, sursum pilis longiu-
 sculis, rectis, $60-80 \approx 5$, fuligineis, apice integris et obtusis, 1-2-
 septatis laxè donatis, facillime deciduis, coriaceo-membranaceis,
 contextu obscure crasseque parenchymatico (cell. $10-13 \mu$. diam.),
 olivaceo-fuligineo; ascis ellipticis, utrinque obtuse rotundatis, 40
 ≈ 15 , primo hyalinis, continuis, dein opace fuligineis, 4-septatis,
 loculis crassissime 1-guttatis.

Hab. ad folia viva Luchææ divaricatæ in silvis subvirgi-
 neis prope Guarapí Bras.

54. **Meliola contigua** Karst. et Roum. Rev. Myc. 1890, pag. 77. — 1782
 Mycelio epi- raro hypophyllo, plagulas radianti-orbiculares v. irre-
 gulares, tenues, crustaceas, atras efficiente, ex hyphis ramosis,
 vulgo coalitis, brunneis (sub lente) composito; setulis erectis, sim-
 plicibus, acutis, rigidiusculis, atris, nitidis, usque ad 0,5 mm. lon-
 gis, $7-10 \mu$. cr.; peritheciis sparsis, sphæroideis v. ovoideis asto-
 mis, atris, $100-150 \mu$. diam.; ascis non visis; sporidiis oblongatis,
 utrinque obtuse rotundatis, rectis vel subrectis, brunneis, 4-septa-
 tis, ad septa aliquantulum constrictis, $40-50 \approx 15-25$.

Hab. in foliis vivis Palmieri (Palmæ?) acaulis, Tonkin.

55. **Meliola conglomerata** Winter in Hedwigia 1886, pag. 35 et F. 1783
 S. Thom. t. I, f. 7. — Mycelio plagas parvas, epiphyllas, sparsas
 rotundatas seu 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 geren-

Mel. palmieri
 (1886) Winter

tibus 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 cylindræis, utrinque late rotundatis, haud attenuatis, 4-septatis, fuscis, 35-39 \approx 14-16.

Hab. in foliis ignotis (arboris) in insula S. Thomé Afr. occ.

56. **Meliola tomentosa** Winter in Rev. Myc. 1885. — Amphigena; 1784
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, typice late piriformia, sæpe curvata, pedicellata, 14-18 μ . lata gerentibus; hyphis erectis nullis; peritheciis parvis, depresse globosis, ruguloso-granulosis, 180-240 μ . diam., demum col-labascens, cupuliformibus, atris; ascis oblongo-ellipsoideis vel oblongis, sessilibus, bisporis, 70 \approx 35; sporidiis oblongo-cylindraceis, utrinque late rotundatis, 4-septatis, ad septa parum constrictis, fuscis, 52-58 \approx 20-26, mucro hyalino angusto circumdatis.

Hab. ad folia viva plantæ ignotæ, Paraguay Amer. austr. — Defectu setarum erectarum a *Meliola amphitricha* et affinis, sporidiis multo majoribus a *Meliola inermi* valde diversa.

57. **Meliola ampullifera** Wint. in Rev. Myc. 1885. — Mycelio te- 1785
nuissimo, 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 . cr.; peritheciis numerosis, gregariis, depresse globosis, mox collapsis, concavis, opace atris, verruculosis, 220-270 μ . diam.; ascis ellipsoideo-oblongis, sessilibus, 3-4-sporis, 80-96 \approx 35; sporidiis cylindrico-oblongis, utrinque rotundatis, 5-cellularibus, ad septa parum constrictis, fuscis, 47-58 \approx 17-19.

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

58. **Meliola guaranítica** Speg. Fungi Guar. Pug. I, n. 176. — Am- 1786
phigena; 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, fuligineis, hyphopodiis destitutis composito, hyphis conidiferis erectis, rectis, longiusculis, 200-250 \approx 5-6, apice inte-

gris acutisque, opacis, non septatis sublaxe 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 \times 14-18, 8-septatis, fuligineis, loculis duobus extremis pallidioribus.

Hab. ad folia viva arborum in silvis subvirgineis prope Guarapi Brasiliæ.

59. **Meliola lanosa** Pat. Rev. Myc. 1888, t. 69, f. 2-4, *M. macrocarpa* Mont. p. p. — Maculis orbiculatis, lanosis, nigris, crassis, 4-6 mm. diam., margine definite limitatis, secedentibus; peritheciis majusculis, 300-500 μ . diam., nigris, globulosis vel collabentibus, rugulosis, inter setas rigidas, erectas, crassas, continuas, indivisas, brunneas, apice obtusas, hyalinas nidulantibus; sporidiis magnis, ovoideo-oblongis, utrinque obtusis, 60-68 \times 20-22, brunneis, 3-septatis, leviter constrictis. 1787

Hab. in foliis coriaceis in Chili (MONT. in herb. Paris). — Mycelium parum nigricans. *M. corallinæ* et *M. Berkeleyi* subaffinis.

60. **Meliola subcrustacea** Speg. F. Puigg. n. 236. — Subiculo subcrustaceo, maculari, glabro, 1-3 mm. diam., hyphopodiis paucis, 30 \times 15, alternis, subramuliformibus, parum manifestis donato; peritheciis globosis, atris, glabris, 250-300 μ . diam.; ascis ellipsoideis, 80-100 \times 45-50, basi crasse et brevissime pedicellatis; sporidiis e fronte ellipsoideis, e latere subcylindræis, 4-septatis, fuligineis, 65-70 \times 30 \times 20-30. 1788

Hab. ad folia viva plantæ ignotæ cujusdam in silvis prope Apiahy Brasiliæ.

61. **Meliola clavispora** Pat. Journ. Bot. 1890, p. 61, f. 4. — Maculis epiphyllis, nigris, orbicularibus, 4-8 mm. diam., subcrassis bene limitatis; setulis nullis; mycelio brunneo, ramoso, septato; hyphopodiis abundantibus, alternis, ovoideis, substipitatis, 10-12 \times 8; peritheciis numerosis, rotundatis, plerumque secus orbem dispositis, astomis, 200 μ . diam., nigris opacissimis; sporidiis brunneis, clavatis, trilocularibus, 40-50 μ . long., uno apice 16 μ . cr., altero 10 μ . cr., inter articulos majorem et medium constrictis. 1789

Hab. ad folia viventia, Fu-Phap Tonkin Asiæ orient. — Species ab aliis distincta sporidiis trilocularibus.

62. **Meliola Wainioi** Pat. Journ. Bot. 1890, p. 200 cum icon. — Maculis nigris, irregularibus, densis, crassis, lanatis; mycelio repen- 1790

te, raro, non radiante, e filamentis ramosis, rigidis, brunneis, septatis, 10 μ . lat.; hyphopodiis alternis, 30 \approx 20, e cellulis superpositis, superiore rotundata, inferiore elongata et angustiore formatis; setulis numerosissimis, 300-400 \approx 10, nigris, opacis, apice obtuso vix pellucidis, erectis, apice incurvis vel circinantibus; ascis?; sporidiis rectis, 65-70 \approx 22-25, loculis 4 divisis, loculis extimis minoribus et obtusis, ad septa profunde constrictis.

Hab. ad folia coriacea, Minas Geraes Brasilæ. — *M. Musæ* et *M. orbiculari* affinis, sed sporidiis majoribus et 3-septatis diversa.

63. **Meliola ludibunda** Speg. Fung. Guar. Pug. I, n. 178. — Am. 1791
 phigena; mycelio tenui, effuso, plagulas atras, velutinas, plus minusve latas sæpeque totum folium ambientes efformante, ex hyphis repentibus, dense intricatis, conferte oppositeque 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 \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 \approx 30-35, bisporis, mox diffluentibus; sporidiis cylindræis vel subelliptico-cylindræis, magnitudine ludentibus, 28-45 \approx 9-14, 4-septatis, ad septa leniter constrictis, utrinque obtuse rotundatis, fuligineis.

Hab. ad folia viva arborum herbarumque prope Guarapí et Paraguari Brasilæ. — Sub hoc nomine formæ (species?) plurimæ parum definitæ (fere *M. amphitrichæ* varietates minores tantum proferentes) hyphis erectis, apice integris, simplicibus, hyphis repentibus, hyphopodiis 1-(rarius 2-)septatis, subglobosis vel ellipticis, oppositis ornatis colliguntur; formis his tamen sedulius perscrutatis et characteribus definitis, specie plurimæ certe inve-niendæ, immo jam inventæ, ut *M. Winterii* Speg., *M. malacotricha* Speg.

ZUKALIA Sacc. (Etym. a cl. mycologo H. ZUKAL). — Perithecia superficialia, globulosa, subastoma, submembranacea, atra, mycelio effuso dematiaceo insidentia. Asci octospori. Sporidia ovato-oblonga, 2-pluriseptata, hyalina v. subhyalina. — Est *Meliola* hyalophragmia.

1. **Zukalia loganiensis** Sacc. et Berl. Misc. Myc. II, n. 15 (*Meliola*). — 1792

Epiphylla; mycelio late effuso sed tenuissimo, fere nubiloso; hyphis repentibus, filiformibus, patule ramosis, septatis, subhyalinis; peritheciis globosis, astomis, obtusis, 130-140 μ . diam., atris, setulis divergentibus, rectis, cuspidatis, septatis, fuliginosis, sursum pallidioribus parce conspersis; ascis fusoideo-clavatis, brevissime stipitatis, apice obtusis, 40-50 \approx 18, suboctosporis; sporidiis subtristichis, fusoideo-clavulatis, 28-32 \approx 7-8, deorsum acutioribus, 7-8-septatis, non constrictis, hyalinis.

Hab. in foliis subemortuis *Smilacis* Sp., Logan Australiæ.

2. **Zukaiia Heteromeles** Cooke et Hark. in *Grevillea* XIII, p. 21 (*Meliola*). — 1793
 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 \approx 8.

Hab. in foliis *Heteromeles* in California.

3. **Zukalia? balsamicola** Peck in 34 Rep. St. Mus. p. 52, t. I, f. 22-27 1794
 (*Meliola*). — Peritheciis paucis, gregariis, minutis, ovoideis vel subconicis, atris, liberis, mycelio parco, brunneo-nigricante, maculæformi insidentibus; ascis sæpe oblongis, raro subcylindræcis et elongatis; sporidiis stipitatis vel distichis, raro monostichis, uni-septatis, hyalinis, 8-11 μ . longis, sæpe 2-3 nucleatis, loculo superiore paullo crassiore.

Hab. in foliis vivis vel languidis *Abietis balsameæ* in montibus Catskill Amer. bor. — «Ubi sporidia constanter 1-septata, potius *Dimerosporii* species».

4. **Zukalia? sordidula** (Lév.) Sacc. *Sphæria sordidula* Lév. in An. 1795
 Sc. Nat. 1863, pag. 196. — 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, ostiolis 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).

5. **Zuckalia erysiphoides** Speg. F. Guar. II, n. 49 (*Asteridium*). — 1796
 Maculis nullis v. folio vix pallescente; mycelio hypophyllo, laxissimo, facillime detersili, subarachnoideo ex olivascente albicante vix perspicuo, ex hyphis laxè ramuloso-intricatis, subhyalinis, gracilibus

2-5 μ . crass., septulatis efformato; peritheciis in mycelio hinc inde sparsis vel subaggregatis, superficialibus, globosis, 100-120 μ . diam., tenui-membranaceis, contextu atro-fuligineo parenchymatico donatis, pilis basi subfasciculatis, sursum liberis, divaricatis, subhyalinis, rectiusculis, subseptulatis, levibus, 150-220 \times 4-6, ex hyalino fumoso-chlorinis simplicibus vestitis; ascis cylindræis, sursum obtusiuscule rotundatis crasseque tunicatis, deorsum cuneatis ac in pedicellum brevem crassumque productis, 80-90 \times 18-20, aparaphysatis, octosporis; sporidiis 2-3-stichis, cylindræo-fusoideis, utrinque acutiuscule rotundatis, 40-45 \times 5, primo 5-8-guttulatis, dein 7-septato-constrictis non vel subtorulosis, loculo tertio supero non vel vix crassiore, hyalinis.

Hab. ad folia viva Cupaniæ cujusdam in silvis subvirgineis prope Guarapí Brasilæ. — Species a genere satis recedens primo intuitu pro *Erysiphe* quadam facillime sumenda.

6. **Zukalia dispersa** Speg. F. Puigg. n. 225 (*Asteridium*). — Hy- 1797
 pothallo nullo; peritheciis hypophyllis, sparsis, globosis, 120-150 μ . diam., astomis, atris, pilosulis; ascis obclavatis, aparaphysatis, 65-75 \times 12-14, brevissime pedicellatis; sporidiis 2-3-stichis, fusiformibus, 5-septatis, hyalinis, 26-30 \times 6, vix constrictis.

Hab. ad folia viva Pleromatis speciei cujusdam in dumetis prope Apiahy Brasilæ. — A genere *Acanthostigmale* vix peritheciis astomis recedit, an satis?

7. **Zukalia clavispora** Speg. F. Puigg. n. 224 (*Asteridium*). — Am- 1798
 phigena; hypothallo tenui pelliculoso, effuso non vel vix perspicuo, hyphis gracilibus, 5-6 μ . cr., dense intertextis, olivaceis, oppositoramosis, hyphopodiis carentibus; peritheciis ovatis, pruinulosis vel glabris, astomis, laxe gregariis, 150-180 μ . diam.; ascis clavatis aparaphysatis, 80 \times 20; sporidiis cylindræo-clavatis, 3-5-septatis, e chlorino fumosis, 30-45 \times 5-6, vix constrictis.

Hab. ad folia coriacea viva plantæ ignotæ pr. Apiahy Brasilæ.

8. **Zukalia coronata** Speg. F. Guar. II, n. 48 (*Asteridium*). — Myce- 1799
 lio epiphylo epidermidi arcte adnato, maculis nullis v. vix pallescentibus insidente, plagulas suborbiculares, 5-8 mm. diam., olivaceo-fumosas v. nubilosas ambitu evanescenti-indeterminatas efficiente, submembranaceo tenuissimo, ex hyphis gracilibus 2-3 μ . crass., olivaceis pellucidis, dense ramoso-intricatis, hyphopodiis destitutis subcontinuis composito; peritheciis mycelii centro v. subcircinatim insidentibus, numerosis, dense gregariis, in vivo globosis, 100-120 μ . diam., siccis collabascentibus, sursum setulis nonnullis (sæpius

10-20) longiusculis gracilibus $200 \approx 5-6$, fuligineis basi opacis, apice pellucidis, flexuosulis, continuis, divaricatis vestitis, atris, subcoriaceo-membranaceis, contextu parenchymatico vix distincto; ascis cylindraceis non v. vix obclavulatis, sursum obtuse rotundatis ac subcrassiuscule tunicatis, deorsum breviter attenuatis, pedicello crasso brevissimoque suffultis, $32-35 \approx 8$, octosporis, paraphysibus nullis v. paucis immixtis; sporidiis 2- v. 3-stichis, cylindraceo-subfusoides, utrinque acutiuscule rotundatis, $10 \approx 3$, medio 1-septato-constrictulis, loculis 1-pseudoseptatis, supero non v. vix crassiore, hyalinis.

Hab. ad folia viva *Compositæ* cujusdam coriacea in silvis densioribus prope Paraguari Brasiliæ. *Paraguay*

9. **Zukalia bambusella** Speg. Fungi Guar. Pug. I, n. 172 (*Asteridium*). 1800
 — Epiphylla; mycelio nullo vel vix e fibris paucis crassis, brevibus, fuligineis, 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-dehiscentibus, membranaceo-coriacellis, contextu crassiusculo obscure parenchymatico-sinuoso, olivaceo-fuligineo; ascis cylindraceis v. subcylindraceo-clavatis, apice subtruncato-rotundatis crassiusculeque tunicatis, deorsum attenuatis breviterque noduloso-stipitatis, $65-75 \approx 8$, paraphysatis, octosporis; sporidiis distichis v. oblique monostichis, elongato-ellipticis, $16-20 \approx 4-5$, rectis v. 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 Brasiliæ.

10. **Zukalia dimerosporioides** Speg. F. Guar. II, n. 50 (*Asteridium*). 1801
 — Mycelio epiphylo matrici adnato, tenuissimo, late vageque serpente, plus minusve obscure olivaceo, ex hyphis tenuibus, 3-3,5 μ . crass., flexuosis longissimis laxè ramuloso-intertextis, septulatis, olivaceis, hyphopodiis destitutis composito; peritheciis hinc inde plus minusve dense aggregatis, vivis globosis, 60-100 μ ., siccis collabascentibus, fibris hyphis simillimis vestitis, atris subverruculosus coriacellis, contextu indistincto olivaceo; ascis ovatis sursum umbonato-rotundatis crassissimeque tunicatis, deorsum abrupte in pedicellum minutum productis, $50 \approx 25 \mu$., aparaphysatis, 4-8-sporis; sporidiis ellipticis v. cymbæformibus, utrinque acutiusculis, $26 \approx 8$,

Sp. N. H. K. Speg. Fungi Guar. II, n. 50. 1801. Conf. Speg. Fungi Guar. II, n. 50. 1801.

2-septatis, septis a centro remotis subpolaribus, non v. vix subconstrictis, fumoso-olivaceis, polis pallidioribus.

Hab. ad folia viva Billbergiæ v. Pitchairniæ cujusdam in dumetis prope Paraguari. — Adest status stylosporicus.

11. **Zukalia maculosa** (Speg.) Sacc., *Dimerosporium maculosum* (Speg.) Sacc. Syll. I, p. 53, Rehm Ascom. n. 897. — Huc ducendum, nam, teste Rehm l. c., sporidia matura 3-septata, 10-12 \approx 3,5-4, flavido-fuscella, asci 36-42 \approx 8.

ASTERIDIUM Sacc. Syll. I, p. 25 et 49 (ut subgen.), Speg. Guar. e. p.

1. **Asteridium lepidigenoides** E. et E. Journ. Myc. 1888, pag. 121 1802
(*Asterina*). — Mycelio obsoleto; peritheciis hypophyllis, sparsis, foliorum squamis insidentibus, parvis, 100-120 μ . diam., contextu minute sed non radiatim cellulari, supra pertusis, scutellatis; ascis oblongis, sessilibus, 60 \approx 12, subtus plerumque latioribus; sporidiis distichis, fusoideis, 3-septatis, hyalinis, 12-14 \approx 2-2½.

Hab. ad folia viva Capparidis jamaicensis, Key West, Florida Amer. bor. — *A. lepidigeno* valde affine sed peritheciis minoribus, ascis longioribus et sporidiis 3-septatis distinctum.

2. **Asteridium Viburni** Pat. Journ. Bot. 1888, p. 149 (*Asterina*). — 1803
Maculis hypophyllis, brunneis, tenuibus, peritheciis nigris, punctiformibus, superficialibus, astomis, glabris, globosis, dein depresso-cupuliformibus, fibrillis mycelii brunneis, gracilibus, ramosis cinctis; ascis elongatis, clavatis, 8-sporis; paraphysibus numerosis, filiformibus, simplicibus v. ramosis; sporidiis hyalinis, viridulis, primo 1- dein 3-septatis, 15-17 \approx 5-6.

Hab. in foliis Viburni sp. Yun-nan Sinarum (DELAVAY).

3. **Asteridium hirsutum** Speg. F. Guar. II, n. 51. — 1804
mycelio amphigeno vel sæpius epiphylo totum folium obtegente subcrustaceo-membranaceo compactiusculo, a matrice frustulatim facile secedente, fusco- vel olivaceo-atro pruinuloso, ex hyphis subdiffluentibus, longe denseque ramoso-intricatis, dense septato-subtorulosis, 5-12 μ . crass., hyphopodiis destitutis efformato; peritheciis hinc inde in mycelio sparsis vel pauci-aggregatis, subsuperficialibus atris, e globoso depressulis 150-200 μ . diam., in sicco subcollabascentibus astomis (?), contextu parenchymatico-olivaceo, setulis nonnullis rigidulis rectis v. flexuosulis, 50-200 \approx 10, divaricatulis, obscure fuligineis, sursum attenuatis pallidioribusque inspersis; ascis obclavulatis, sursum obtusissime rotundatis crassissimeque tuniatis 1-foveolatisque, deorsum in pedicellum brevem crassumque ab-

rupte rotundatis, 80-100 \times 20, aparaphysatis, octosporis; sporidiis oblique distichis, ellipticis, utrinque acutiusculis 25-28 \times 10, tri-pseudo-septatis, ad septa constrictulis, hyalinis.

Hab. ad folia viva *Eugeniae* cujusdam in dumetis prope Paraguari Brasiliæ.

4. **Asteridium purpureum** Ellis et Mart. in Journ. of Myc. 1886, 1805 p. 128 (*Asterina*). — Peritheciis hypophyllis, convexo-scutellatis, sparsis vel gregariis, sæpe basim foliorum occupantibus, subastomis, radiato-cellulosis, 130-150 μ . diam., margine fimbriato, ex hyphis purpureo nigris, arcte superficiei foliorum rufo-purpureo coloratorum adnatis; ascis obovatis, 30-35 \times 18-22, octosporis; sporidiis stipatis, ovato-oblongis vel ellipsoideo-oblongis, 12-16 \times 5-6, hyalinis, endochromate tripartito dein cellula septo longitudinali imperfecto divisa.

Hab. in foliis vivis *Oleæ* americanæ, Florida Amer. bor. — An *Pleomeliotæ* (Sect. *Meliolæ*) magis affine?

5. **Asteridium? Celastri** E. et K. in Journ. of Myc. 1885, pag. 2. 1806 (*Asterina*). — Peritheciis hypophyllis, gregariis v. sparsis convexis, orbicularibus, $\frac{1}{4}$ mm. diam., atris, basi mycelio brunneo, radiato, parco cinctis; ascis oblongo-ovoideis, 12-15 \times 6-7, immaturis protoplasmate granuloso fartis.

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

6. **Asteridium lepidigenum** Ell. New North Am. Fung. in Amer. Nat. 1807 1884, pag. 1148 (*Asterina*). — Peritheciis atris, subglobosis vel oblongo-applanatis, tenuibus et fragilibus, 200-300 μ . diam., mycelio hyalino, parco insidentibus; ascis ovatis vel obongis, 8-sporis, 30-42 \times 12-15; sporidiis obovatis, hyalinis, biseptatis, 12 \times 4.

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

7. **Asteridium Eucalypti** C. et M. Grev. XVI, p. 74. — Densissime 1808 gregarium; peritheciis minutis, discoideis, applanatis, atris; ascis tetrasporis, piriformibus; sporidiis elongato-ellipsoideis, triseptatis constrictis, fuscis, loculo pænultimo incrassatis, 28 \times 10.

Hab. in foliis emortuis *Eucalypti* amygdalinæ, Melbourne Australiæ (READER).

8. **Asteridium juniperinum** Cooke Grevill. vol. XVI, p. 77 (*Asterina*). 1809 — Peritheciis discoideis, convexis, 100-125 μ . diam., filamentis radiantibus cinctis; ascis clavatis, 8-sporis; sporidiis fusoides, 3-septatis, dilute brunneis, 25 \times 7.

Hab. in Junipero, subiculo *Antennariæ pinophilæ* insidens, Forres N. B. Britanniæ.

9. **Asteridium Scabiosæ** Rich. Bull. Soc. Myc. 1888, p. LII, t. IV, 1810 fig. 1 (*Asterina*). — Peritheciis sparsis, superficialibus, depresso-globosis, centro-umbilicatis, 3-4 ascos includentibus, atris, mycelio fusco, ambitu radiante insidentibus; ascis amplis, globoso-ovoideis, 100 μ . long., 4-8-sporis, tunica crassa; sporidiis oblongo-subclavatis, 3-4-septatis, ad septa constrictis, guttulatis, hyalinis, demum dilute flavidis, junioribus strato mucoso obvolutis, 60 μ . long.

Hab. in caulibus *Scabiosæ Columbariæ* pr. Paris Galliæ. — *A. Eugeniæ* affine.

10. **Asteridium Xerophylli** Ellis Amer. Nat. 1883, p. 319 (*Asterina*). 1811 — Peritheciis mycelio parco insidentibus, superficialibus, orbicularibus v. suboblongis, leniter depressis, $\frac{1}{6}$ mm. diam.; ascis obovatis, deorsum stipitiforimi-attenuatis, $35 \approx 15$; sporidiis fusiformibus v. clavato-fusoideis, tenuiter 3-septatis, $18-20 \approx 3-3,5$, hyalinis.

Hab. in foliis emortuis v. languidis *Xerophylli asphodeloidis*, Willow Grove Amer. bor.

Sect. 5. Scolecosporæ.

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

1. **Hyaloderma imperspicuum** Speg. Fungi Guar. Pug. I, n. 171. — 1812 Hypophyllum, rarius epiphyllum; mycelio tenuissimo vix perspicuo, arcte epidermidi foliorum adnato, mucedineo-fibroso, atro, radiante, plagulas fuscas hinc inde efficiente; peritheciis in plagulis laxe gregariis, minutissimis, 60-80 μ . diam., globosis, astomis, fuscidulis, postice membranaceis, persistentibus, contextu merenchymatico, radiante, antice anhystis, hyalinis, fatiscentibus; ascis paucis, vix 8-12, obovatis, sursum late rotundatis ac crassissime tunicatis, deorsum attenuatis, breviter noduloseque stipitatis, $40-45 \approx 12-18$, octosporis, aparaphysatis; sporidiis fusoideo-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 pr. Guarapî Brasilæ. — Species sæpius in consortio *Meliolarum* vel *Dimerosporiorum*, an potius parasitica?

2. **Hyaloderma tricholomum** Pat. Journ. Bot. 1888, p. 147, f. 2. — 1813
Peritheciis subglobulosis vel ovoideis, majusculis, $\frac{1}{4}$ - $\frac{1}{2}$ μ . diam., pellucidis albo-luteolis, pilis hyalinis, gracilibus, longis, simplicibus vel ramosis tectis, astomis?; ascis elongatis, clavatis, stipitatis, 80 \approx 15, numerosis; paraphysibus effusis; sporidiis octonis biserialis, pallidissime viridulis, fusoideis, uno apice obtusis, 3-septatis, 30 \approx 5-7.

Hab. ad mycelium *Meliolæ corallinæ*, Chili Amer. merid.

3. **Hyaloderma subastomum** Pat. Journ. Bot. 1888, p. 147. — Peri- 1814
theeciis ovoideis v. rotundatis, 100 \approx 90, pellucidis, vix luteolis, subastomis, ex hyphis intertextis efformatis; ascis numerosis, clavatis, 40 \approx 6; paraphysibus nullis; sporidiis octonis, hyalinis, ovoideis, continuis, sæpe granulosis, 10-12 \approx 3-4.

Hab. gregarie ad mycelium *Meliolæ* sp., Chili Amer. merid. — Ubî sporidia jugiter continua, vix hujus generis species.

4. **Hyaloderma piliferum** Pat. Bull. Soc. Myc. 1888, p. 102, t. XIX, 1815
f. 1. — Peritheciis sparsis v. 3-5-gregariis, subglobosis, incoloribus v. vix brunneolis, minutis, 110-130 μ . diam., pariete cellulosa, supra glabris, basi appendicibus rigidis, hyalinis, 1-cellularibus, circ. 50 μ . long., instructis; ascis cylindraceutis, clavatis, breviter stipitiformi-attenuatis, 60-70 \approx 10-15; paraphysibus linearibus, simplicibus v. ramosis; sporidiis hyalinis, fusoideis, uno apice obtusis, altero attenuatis, contentu in massas 5-7, septis (?) separatas diviso, 30-36 \approx 6.

Hab. in foliis vivis, probabiliter in mycelio *Meliolæ* v. *Asterinæ* cujusdam, Maipures Venezuelæ.

5. **Hyaloderma perpusillum** Speg. F. Puigg. n. 226. — Parasitans; 1816
peritheciis minutissimis, 50-70 μ . diam., superne evanidis; ascis elliptico-obclavatis, 18-20 \approx 6-7, paraphysatis; sporidiis lineari-fusoideis, 14-18 \approx 1,5; pluriguttulatis, hyalinis.

Hab. in Perisporiacea quadam ad folia viva Myrtacearum prope Apiahy Brasilæ. — Hypothallus tenuissimus mucedineus vix perspicuus incrustans.

Subfam. 3. **Capnodieæ** Sacc.

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

1. **Capnodium Juniperi** Phill. et Plowr. in Grevillea XIII, p. 75. — 1817

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 Britanniaë (Dr. KEITH). *Microspidium*

2. **Capnodium Heteromeles** Cooke et Hark. in Grevill. XIII, pag. 21. 1818
— 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 California.

3. **Capnodium Rhamni** Cooke et Hark. in Grevillea XIII, p. 21. — 1819
Maculæforme, atrum; hyphis repentibus, plerumque moniliformibus, ramosis, stratum tenuem efformantibus; peritheciis erectis, cylindricis, sursum attenuatis, 300 \approx 40 simplicibus, ore fimbriato; sporidiis ellipticis, triseptatis, fuscis, 18-20 \approx 8, uno loculo transversaliter diviso; conidiis liberis, fuscis, uniseptatis, 12 \approx 6. *Microspidium*

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

4. **Capnodium Armeniacæ** Thuem. Pilze d. Aprik. p. 10. — Mycelio 1820
effuso, subcrustaceo, nigro epiphylo, subiade hypophyllo; hyphis repentibus, ramosis, subcrassis, obscure griseis vel nigricantibus; ascis.....; sporis oblongo-fusoideis, continuis vel 2-3-septatis, atro-fuscis vel griseis, 5-15 \approx 2-5,5. *Microspidium*

Hab. in foliis vivis Armeniacæ sativæ, cui noxium, in Austria.

5. **Capnodium Tuba** Cooke et Hark. in Grevillea XIII, p. 21. — Ef- 1821
fusum, 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. *Microspidium*

Hab. in foliis Umbellulariæ in California.

6. **Capnodium pelliculosum** B. et Rav. — Sacc. Syll. I, p. 79, Martin 1821
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-ocularia, *Tripodosporio* similia, primum hyalina dein fusca; hyphæ 4-5-septatæ nucleatæque, 50-76 \approx 7-9, sursum attenuatæ; perithecia pycnidica membranacea, con-

textu 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; asci primum oblongi dein ellipsoidei, 40 \approx 25; sporidia stipata, late fusioidea, hyalina, primum 1-septata, demum 3-septata, 15-22 \approx 4-7.

- microphyllum* 7. **Capnodium guaraniticum** Speg. Guar. I, pag. 148. — Epiphyllum, 1822
densissime crustaceum, tenue, album, ex hyphis omnibus repentibus, dense ramoso-intricatis, torulosis, loculis subglobosis v. subellipsoideis, e mutua pressione angulosis, 4-10 \approx 4-5, grosse uniguttatis, olivaceis, compositum; peritheciis cylindræis, sæpe basi nodulosis, 250-400 \approx 15-20, sursum non v. attenuatis, atris, opacis, apice vix pellucidis prosenchymaticis, non inflatis nec fimbriatis; sporidiis cylindræo-elongatis, utrinque obtusiusculis, 15-22 \approx 3,5-5, triseptatis, hyalinis.

Hab. ad folia juniora ejusdem plantæ, ubi *C. chætomorphum* in silva Caá-Guazú Brasiliæ. — Inter perithecia descripta adsunt perithecia minora, ovoidea vel elongato-ovoidea, 40-50 \approx 20, prosenchymatica, atra, opaca; sporidiis minimis, ellipsoideis, utrinque subtruncato-rotundatis, 2,5-3 \approx 1, hyalinis farcta.

- microphyllum* 8. **Capnodium chætomorphum** Speg. Guar. I, p. 148. — Subiculo epi- 1823
phylo, crustaceo, atro, ex hyphis repentibus, densissimis, torulosis, segmentibus, medio constrictis, 6-10 \approx 3, grosse 2-guttulatis, olivaceis composito, hyphis paucissimis erectis, cylindræis, septatis, 60-150 \approx 6-8, rigidulis donato; peritheciis sparsis v. laxè hinc inde 2-5-aggregatis, cylindræis, erectis, rectis v. vix flexuosulis, 250-300 \approx 10-20, sursum gradatim attenuatis, apice vix inflatulis ac subfimbriato-penicillatis, atris, opacis; sporidiis ellipsoideis, rectis v. inæquilateralibus, 3- rarius 4-septatis, ad septa non constrictis, utrinque obtusatis, 14-15 \approx 4, hyalinis.

Hab. ad folia viva coriacea plantæ cujusdam ignotæ pr. Caá-Guazú Guarany Amer. merid.

- microphyllum* 9. **Capnodium paraguayense** Speg. Guar. I, p. 149. — Epiphyllum, 1824
effusum, sæpe totum folium occupans, crustaceo-velutinum, aterrimum; hyphis repentibus, dense ramoso-intricatis, toruloso-articulatis, articulis subrotundis v. subellipsoideis, 5 μ . cr., e mutua pressione angulosis, grosse 1- v. 2-ocellatis, olivaceis; peritheciis atro-olivaceis, subopacis, cylindræo-fusioideis, 200-300 \approx 20-40, inferne subnodulosis, sursum attenuatis apiceque hyalino-fimbriatis ac

dehiscentibus, prosenchymaticis; sporidiis ellipsoideo-elongatis, utrinque obtusis, 10-12 \approx 4, rectis vel vix curvulis, 3-ocularibus, hyalinis.

Hab. ad folia Compositæ arborescentis cujusdam in silvis pr. Villa Rica Guarany Amer. merid.

10. **Capnodium fructicolum** Pat. Journ. Bot. 1889, p. 258. — Peritheciis numerosis, nigris, rigidis, erectis, subcarnosis, 1 mm. circ. long., basi inflatis, in discum dispositis, villosis; ascis clavatis, longe stipitatis, 8-sporis, 60 \approx 12; sporidiis subglobosis, levibus, non septatis, brunneis, 6-8 μ . diam.; pycnidiis peritheciis mixtis, nigris, ovoideis, obtusis, apice pertusis; stylosporibus fuscoideis, 6 \approx 1, numerosis, vix brunneolis; conidiis ovoideis, brunneis, catenulatis, e mycelio inter perithecia et pycnidia orientibus. 1825
Capnodopsis

Hab. ad fructus *Myrsines* sp. Yun-nan Sinarum (DELAVAY). — *C. maximo* et *C. arrhizo* affine.

11. **Capnodium arrhizum** Pat. Bull. Soc. Myc. 1888, p. 105, t. XIX, f. 3. — Mycelio vix perspicuo, subepidermico, pustulas epiphyllas, ovoideas, sæpe lacerato-pertusas, 4-5 mm. long., 2-3 mm. lat. gignente; peritheciis 8-10 basi pustularum insidentibus, rigidis, nigris, durissimis, opacis, 2-3 mm. long., basi inflatis, apice longe acuminatis; ascis numerosis, brunneolis, ovoides, 12-15 \approx 8-10, apophysatis; sporidiis octonis, ovoideis, 2-3 μ . long. 1826

Hab. in foliis coriaceis, San-Fernando Venezuelæ.

12. **Capnodium puccinioides** E. et Ev. Journ. Myc. 1888, p. 65. — Peritheciis amphigenis, cylindræis, obtusis, 75-80 \approx 20, hyalinis, demum opacis, in fasciculos minutos atros, sparsos vel in greges 1-3 mm. lat. congestos erumpentibus, sterilibus visis. 1827

Hab. in foliis vivis *Fraseræ speciosæ*, Pike's Peak Colo. Amer. bor. (TRACY). — In centro cæspitum fungilli folium arescit et pallescit et areola alba zonâ nigra peritheciolorum cingitur; fungillus totus *Pucciniam* effusam imitatur.

13. **Capnodium Thwaitesii** Berk. Introd. Crypt. p. 274, t. 63 a (sine diagnosi). — Peritheciis subfasciculatis, oblongo-piriformibus, sursum attenuatis, extus granulosis, nigris. 1828

Hab. in capsulis *Ardisiæ* speciei, verisim. in ins. Ceylon.

14. **Capnodium doratopsis** Speg. F. Guar. II, n. 176. — Subiculo epiphyllulo pelliculoso, tenui, totum folium obtegente eoque arctiuscule adnato, ex hyphis dense constipatis torulosis, articulis ellipticis vel e mutua pressione difformibus, grosse biguttulatis donatis, oliveis composito; peritheciis cylindræis basi non vel vix subin- 1829
Microsiphium

crassatis, sursum subattenuatis, 250-500 \approx 10, sub apice abrupte fusiformi- vel lanceolato-inflatis, 50-60 \approx 20, fimbriato-ostiolatis, atris subpellucidis; sporulis non visis.

Hab. ad folia ignota in silvis prope Naranjo in Sierra de Peribeby Brasiliæ. — Species pulchella etsi sterilis distinctissima!

APPENDIX AD CAPNODIUM

15. **Antennaria arctica** Rostr. Fung. Groenl. p. 577 (*Antennatula*). 1830
— Mycelio pannoso, expanso, atro; hyphis moniliformibus, ramosis, articulis ultimis majoribus.

Hab. in ramulis vivis *Vaccinii uliginosi* et *Phyllodoces cæruleæ* in Groënlandia.

16. **Antennaria heteracantha** Speg. F. Puigg. n. 480. — Crassa, pan- 1831
noso-subsuberosa, fusco-atra; hyphis repentibus, 30 μ . cr., ramulis quandoque spiniformibus, rectis, quandoque torulosis falcatis, articulis e globoso-cuboideis, 15 μ . diam.

Hab. ad corticem arborum viventium in silvis pr. Apiahy Brasiliæ. — An huc *A. pannosa* Berk.?

Fam. 2. Sphæriaceæ FR. *).

Sect. 1. Allantosporæ.

MASSALONGIELLA Speg. — Syll. I, p. 89.

1. **Massalongiella? pleurostoma** Starb. Ascom. Oëland. p. 5, f. 1. — 1832
Peritheciis sparsis, simplicibus vel 1-2 connatis, innatis, rugosis, lentiformibus, fusco-atris, 400-500 μ . diam., ostiolo tereti-conico plerumque laterali erumpente; ascis clavatis apice rotundato-obtusis crasseque tunicatis, breve pedicellatis, 40-50 \approx 7-10, 8-sporis; sporidiis e disticho conglobatis, allantoideis, sæpius curvulis, hyalinis, 7-10 \approx 2-5; paraphysibus copiosis, ramosis, septatis, hinc inde inflatis, sursum longe attenuato-filiformibus.

Hab. in ramulis decorticatis aridis Rosæ in insula Oëlandia. — «Cum *Calosphæriis* comparanda».

ENCHNOA Fr. — Syll. I, p. 89.

1. **Enchnoa Ulmi** Karst. Symb. Fenn. XXVIII, p. 40. — Peritheciis 1833

*) Teste cl. Cooke in Grevillea XV, p. 83, *Sphæria inconstans* Schw., Syll. II, n. 4311, *Sph. aggregata* Schw., Syll. II, n. 4315 et *Sph. depolita* B. et C., Syll. II, n. 4306, ex autopsia, fructificationem nullam præbuerunt, hinc dubiæ species manent.

ligno, cortice orbato, insidentibus, aggregatis, sphæroideis, ostioliis obsoletis, atris, tomento fusco obsessis, fragilibus, 0,2-0,3 mm. lat.; ascis late clavatis, aparaphysatis, 30-38 \approx 10-12; sporidiis octonis, conglobatis, cylindræis, curvulis, guttulis duabus apicalibus præditis, hyalinis, 11-14 \approx 2-3.

Hab. in ramis dejectis Ulmi effusæ in horto Mustialensi Fenniaë.

CÆLOSPHÆRIA Sacc. — Syll. I, pag. 91.

1. **Cœlosphæria tristis** (Pers.) Sacc. Syll. I, p. 92, Winter in Hedwigia 1886, p. 104. — Perithecia $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam.; asci pedicello longo, tenui præditi, octospori, 40-45 \approx 8-9; sporidia plerumque recta, 9,5-11 \approx 2-2,5 (Wint.). -- Sec. vero exemplaria anglica (in Fraxino) in herb. meo, asci 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. 1834 — Peritheciis erumpenti-superficialibus, in soros minutos, subcirculares, 1 mm. circ. diam. dense stipatis, globosis, mox cupuliformibus, levibus, nigris, $\frac{1}{5}$ - $\frac{1}{6}$ mm. diam., ostiolo obsoleto, 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 Galliaë. — 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. — 1835 Peritheciis sparsis vel gregariis, superficialibus, absque subiculo, lentiformibus, demum collapsis-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 3,6.
Hab. ad Quercus Suberis corticem prope Coimbra in Lusitania (MOLLER).
4. **Cœlosphæria leptosporoides** Wint. in Hedw. 1883, pag. 2. — Peri- 1836 theciis gregariis superficialibus, primo et udis globosis, demum aridisve cupulæformibus, areolatim rugosis, fusco-atris, opacis $\frac{1}{2}$ - $\frac{3}{4}$ mm. latis; ascis longissime pedicellatis, oblongo-clavatis, mem-

brana apice parum incrassata; ascorum parte sporifera 78-90 \approx 17, 8-sporis; sporidiis cylindræis, curvatis seu geniculatis, sursum paullulum incrassatis, extra medium spurie uniseptatis, hyalinis, 24-27 \approx 6; paraphysibus copiosis, hyalinis filiformibus.

Hab. ad ramos in Nova-Hollandia (herb. C. KALCHBRENNER).

5. **Cœlosphæria? Calyculus** (Mont.) Sacc. *Sphæria Calyculus* Mont. 1837
Syll. Crypt. n 791 et Cent. II, n. 63, Ann. 2, XII, pag. 322. — Superficialis, byssiseda, cæspitosa vel subeffusa; stromate fibroso corticali; peritheciis obpiriformibus, rugulosis, nigris, collabascendo crateriformibus astomis, demum circumscissis; ascis saccato-clavatis, octosporis, 20 μ . longis; sporidiis distichis, 4-nucleatis simulate 3-septatis, 5 μ . longis, pellucidis, lineari-oblongis.

Hab. ad corticem arborum in silvis, Cayenna (LEPRIEUR). — Affinis dicitur *Cœlosphæriæ cupulari*. An, si sporidia vere septata, *Zignoellæ* species.

6. **Cœlosphæria Granati** H. Fab. Sper. Vaucl. II, pag. 32. — Peri- 1838
theeciis cortice immersis, erumpentibus, nunc solitariis, nunc acervulatis, $\frac{1}{3}$ mm. latis, globosis, vertice senio deplanatis vel obsolete cupuliformibus, ostiolo papillato, quandoque rostellato; ascis cylindræo-clavatis, sessilibus 8-sporis, 40-50 \approx 6-7; sporidiis subdistichis, cylindræis, curvatis, hyalinis, utroque polo puncto micante præditis, 10 \approx 2.

Hab. ad ramos exsiccatos Punicæ Granati, Vaucluse Galliæ.

7. **Cœlosphæria media** Sacc. Mich. II, pag. 592. — Peritheciis cæspitoso-erumpentibus, globoso-depressis, dein umbilicatis, $\frac{1}{3}$ mm. diam. ruguloso-hirtellis, nigris; ascis clavulatis, breve stipitatis, p. sporifera 20 \approx 6-7, octosporis; sporidiis distichis, allantoideis, 8-9 \approx 1,5-3, quadriguttulatis, hyalinis.

Hab. ad ramulos Ulmi putrescentes in Helvetia (MORTIER). — A *Cœl. Fuckelii* facile distinguenda.

8. **Cœlosphæria fusariospora** E. et E. Journ. Myc. 1888, p. 65. — 1840
Peritheciis erumpentibus depresso-hemisphæricis, collabendo cupulatis, nigris, $\frac{1}{6}$ mm. diam., ostiolo papillato; ascis clavato-cylindræis, 50 \approx 7; paraphysibus filiformibus; sporidiis distichis, arcuato-fusoideis, continuis 18-22 \approx 2,5, utrinque acutis.

Hab. in cortice Populi moniliferæ in Amer. bor. (Kansas?) (EGELING). — Ad Lichenes nutans.

9. **Cœlosphæria corticata** Ell. et Ev. Proc. Phil. 1890, p. 221. — Pe- 1841
ritheciis sparsis, globosis, 0,5 mm. diam., ostiolo papillato excepto, epidermide adhærente tectis, hyphis brunneis, ramosis, parce se-

ptatis, 3 μ . cr. conspersis; ascis 35 \approx 7 (p. sp); sporidiis octonis, dense distichis, curvulis, obtusis, 2-nucleatis, hyalinis, 10-14 \approx 3.

Hab. in cortice emortuo *Macluræ aurantiacæ*, Emma Mo. Amer. bor. (C. H. DEMETRIO). — Sub epidermide perithecia collabendo mox fiunt profunde concava.

10. **Cœlosphæria pezizoidea** Pat. Bull. Soc. Myc. 1888, p. 106. — 1842

Peritheciis nigris, nitidis, globoso-papillatis, dein depresso-pezizoideis, ostiolo centro emergente, superficialibus, subiculo brunneo insertis, 1 mm. diam., intus albis; ascis clavatis, stipitatis, 40 \approx 6-8; sporidiis octonis ovoideo-oblongis, 8-10 \approx 2-3, hyalinis, 3-4-guttulatis.

Hab. in cortice putri San-Fernando Venezuelæ (GAILLARD).

11. **Cœlosphæria roseospora** Pat. Tab. Anal. n. 699. — Peritheciis 1843

confertis v. sparsis mycelio membranaceo albo insertis, subglobulosis, depressis, astomis (?), nigris, flavo-virenti-maculatis, coriaceis; ascis clavatis, stipitatis, 116-160 \approx 20; sporidiis octonis cylindraceis utrinque rotundatis, levibus, roseis, intus granulosis, 36-43 \approx 6, rectis curvulisve; paraphysibus linearibus, copiosis.

Hab. in ligno nudo *Pruni*, Rouen Galliæ (LETENDRE). — « Ad *Bizzozeriam* vergit ».

BIZZOZERIA Sacc. et Berl. Misc. Myc. II, p. 26 [1885], (Etym. a cl. bot. JAC. BIZZOZERO de flora veneta meritissimo). — Perithecia superficialia vel basi ligno insculpta, discreta, subcarbonacea, globoso-papillata, numquam collabentia. Asci paraphysati, octospori (breve pedicellati). Sporidia allantoidea, majuscula, continua, subhyalina. — A gen. *Cœlosphæria* peritheciis discretis, subcarbonaceis, numquam collabentibus, sporidiis magnis etc. statim distinguitur.

*non Bizzozeria
Spec!*

1. **Bizzozeria veneta** Sacc. et Berl. Misc. Myc. II, pag. 28. n. 114, 1844

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 guttulatis, olivaceo-hyalinis.

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

FRACCHIÆA Sacc. — Syll. I, p. 93.

1. **Fracchiæa Saccardiana** Schulz. in Rev. Myc. 1884. Schulz. Ill. 1845
Fung. Slav. n. 109. — Peritheciis gregariis vel hinc inde subaggregatis, globulosis, superficialibus, immo basi coarctatis, vertice rotundatis, vix pertusis, atris, setulis brevissimis, densiusculis vestitis, intus pallidis, $\frac{1}{8}$ - $\frac{1}{5}$ mm. diam.; ascis clavatis, breve stipitatis, paraphysatis, polysporis; sporidiis allantoideis, utrinque rotundatis triguttatis, curvis, hyalinis, 14 \simeq 3.
Hab. in ramis decorticatis Cydoniæ vulgaris prope Vinkovce Slavoniæ.
2. **Fracchiæa Cordæana** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 1846
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 \simeq 3, utrinque rotundatis, hyalinis.
Hab. in cortice trunci Cydoniæ vulgaris prope Vinkovce Slavoniæ.
3. **Fracchiæa multiasca** Pat. Bull. Soc. Myc. 1888, p. 106. — Peri- 1847
theciis superficialibus, sparsis, nigris, $\frac{1}{4}$ mm. diam., udis globosis, siccis depresso-cupulatis, astomis, pariete e cellulis magnis, tenuibus, brunneis, non carbonaceis formato, pilis brunneis, septatis, patulis basi notatis, intus albis; ascis numerosis, clavatis, longe stipitatis, 50-70 \simeq 10-12, poly-(32?)-sporis aparaphysatis; sporidiis ovoideis, rectis, 2-guttatis, 5-6 \simeq 3.
Hab. ad lignum putre, Caracas Venezuelæ.
4. **Fracchiæa glomerata** Pat. Journ. Bot. 1889, p. 168. — Perithe- 1848
ciis plerumque numerose gregariis, raro sparsis, ostiolatis, nigris, rugosis, subglobosis, 250 μ . diam., demum subapplanatis vel depressis, coriaceo-carbonaceis; ascis clavatis, longe stipitatis, 90 \simeq 12-15, polysporis, aparaphysatis; sporidiis hyalinis, cylindræis, curvatis, utrinque uniguttulatis, 6 \simeq 1.
Hab. in cortice arborum, Palissades d'Atures Venezuelæ (A. GAILLARD).
5. **Fracchiæa americana** Berl. F. Moric. f. V, n. 1, t. 15, f. 1-6. — 1849
Peritheciis hinc inde aggregatis, sphæroideo-depressis, 250-300 μ . diam., rugosulis vel minute verrucosis, ostiolo minuto, conoideo, pertuso, epidermide tectis, dein emergentibus, demum fere omnino liberis; ascis perfecte clavatis, sessilibus, basi subinde curvatis,

apice rotundatis, 105-115 \approx 14-18, polysporis; sporidiis dense et polystiche stipatis, allantoideis, curvulis, 7-8 \approx 1,5-2, 3-guttatis, subhyalinis.

Hab. in ramis emortuis Mori albæ, Malaga New Jersey Am. bor. (J. B. ELLIS).

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

1. **Calosphæria hylodes** (Ell. et Ev.) Berl. et Vogl. Add. Syll. p. 24, *Val-* 1850
sa hylodes E. et E. Journ. Myc. 1886, p. 40. — Pustulis in series vel lineas 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).

2. **Calosphæria ambigua** Berl. in Berl. et Bres. Micr. Trid. p. 49 in 1851
nota. — Peritheciis subsparis, globoso-conoideis, sursum obtusissimis, subastomis, demum poro minuto pertusis, basi crusta stromatica insidentibus, 100 μ . diam., epidermide tectis, intus griseis; ascis clavatis, sursum obtusissimis v. truncatis, 40-45 \approx 6; sporidiis octonis, cylindræis, rectis vel curvulis, utrinque rotundatis, plasmate regulariter in partes 3-4 diviso et sporidiis tum 2-3-pseudo-septatis, 9-12 \approx 2,5-3, hyalinis.

Hab. in ramulis Rosæ caninæ in Germania. — *C. Rosarum* affinis.

3. **Calosphæria microsperma** E. et E. Proc. Phil. 1890, p. 221. — 1852
Peritheciis subcuticularibus, circinatis, 6-18 sociatis, 0,5 mm. d.; collis convergentibus et in fasciculum minutam breviter erumpentem junctis, ostioliis vulgo 4-sulcatis; ascis clavatis, 22-25 \approx 4, in basim brevem sensim tenuatis; paraphysibus asco multo longioribus; sporidiis minutis, in semicirculum curvis, 3,5 \approx 0,7.

Hab. in ramis Carpini americanæ, London Canada (DEARNESS).

4. **Calosphæria reniformis** Rich. Cat. Champ. Marn. n. 1431 (*Sphæria* 1853
reniformis). — Peritheciis subepidermicis, gregariis sed distinctis, hemisphæricis, dein depressis, nigris, rugosis, ostiolo papilliformi donatis; ascis 30 μ . long., apice clavato-truncatis, 4-6-sporis; sporidiis allantoideis vel reniformibus, continuis, hyalinis; paraphysibus nullis.

Hab. in ramis emortuis Betulæ albæ, Marne Galliæ. — *C. minimæ* affinis.

5. **Calosphæria capillaris** Sacc. et Penz. Mich. II, 591. — Peritheciis 1854
in soros crassiusculos aggregatis, mox, cortice secesso, superficialibus, majusculis, fere 1 mm. diam., globosis, dein subinde collapsis, glabriusculis, in ostiola prælonga, capillaria, decumbentiflexuosa apice acuta 2 mm. longa abeuntibus; ascis fusoideo-clavatis, p. sporif. 36-45 \approx 9-11, octosporis; sporidiis allantoideis, 9-12 \approx 2,5-3, curvulis, hyalinis.

Hab. in ligno Juglandis regiæ emortuo, Lyon Galliæ (THERRY). — Affinis videtur *Calosphæriæ macrosporæ* Wint., a qua ostioliis acutis, ascis angustioribus, sporidiis brevioribus differre videtur.

6. **Calosphæria alnicola** Ell. et Ev. Proc. Phill. 1890, p. 221. — Pe- 1855
ritheciis sparsis, subglobosis, 0,5 mm. diam., rugulosis, demum supra leniter collapsis, ostioliis breve cylindræis, epidermidem vix elevatam minute perforantibus; ascis racemoso-fasciculatis, clavato-oblongis, 20-22 \approx 3,5-4, lumine apice cupulato truncato; sporidiis octonis stipato-distichis allantoideis, curvis, 5-6 \approx 1.

Hab. in ramis Alni, Newfield N. J. Amer. bor. — Cum epidermis secedit, perithecia ei hærent v. in corticis superficie permanent, qua nota præcipue a *C. secreta* C. et E. differt.

7. **Calosphæria fallax** Bomm. Rouss. Sacc. nov. spec. — Peritheciis 1856
subcorticalibus, 2-9-aggregatis, globulosis, ostioliis conoideis; ascis clavatis, sæpe difformibus, apice acutatis, basi nodulosis, 75-120 \approx 15, myriosporis, paraphysatis; sporidiis allantoideis, 3-5 μ . long., hyalinis.

Hab. in ramis Myricæ Gales, Westmalle Belgii. — Var. **Viburni Opuli**: peritheciis subsolitariis vel paucis aggregatis; ascis 115 \approx 10-15, p. sporif. 90 μ . long., myriosporis; sporidiis 3-4 \approx 0,3-0,4. In ramulis Viburni Opuli, Tervueren Belgii.

8. **Calosphæria Salicis-babylonicæ** Schulz. Bot. Centr. 1883, XV, p. 3. 1857
— Stromate nullo; peritheciis singularibus, nonnumquam quasi in orbem dispositis, peridermio tectis, sphæroideis, 380-480 μ . lat.,

nigris, tenuibus sed firmis, collibus crassiusculis brevibus, ostioliis fere orbiformi-dilatatis, parum prominulis; ascis ramoso-pedicellatis, parte sporifera fusiformi aut apice rotundata, 40-51 \approx 5-6, 6-8-sporis; paraphysibus non visis; sporidiis cylindræis, leviter curvatis, 10-14 \approx 2, hyalinis.

Hab. ad ramulos Salicis babilonicæ gregatim et socialiter cum *Cytospora Salicis-babilonicæ*, Djakovar Slavoniæ.

9. **Calosphæria microtheca** (C. et E.) Sacc. Syll. I, 67. var. **brevirostris**. — Peritheciis brevissime rostellatis; ascis clavatis, apice truncatis, 30-35 \approx 6-7; paraphysibus bacillaribus longioribus obvallatis, octosporis; sporidiis allantoideis, 5-7 \approx 1,5, hyalinis.

1858

Hab. in ramis putrescentibus decorticatis, Newfield N. J. (ELLIS). — Fabrica tota *Calosphæriæ*, habitus vero potius *Cerato-stomatis*.

10. **Calosphæria Smilacis** Karst. et Har. Rev. Myc. 1890, n. 47. — Peritheciis in cortice interiore inordinate gregariis v. valsiformiter acervatis, peridermio pustulato tectis, sphæroideis v. siccitate depresso-sphæroideis, exiguis, atris, erostratis, glabris, ostioliis brevissimis, obtusis disculum subrotundum, atrum, minutissimum efficientibus; ascis clavatis, octosporis; sporidiis distichis, botuliformibus, curvulis, eguttulatis, hyalinis, 15-22 \approx 5-6.

1859

Hab. ad ramulos aridos Smilacis in Ohio Americæ borealis (LESQUEREUX).

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

1. **Quaternaria abnormis** (Fr.) Berl. et Vogl. Add. Syll. p. 24, *Sphæria abnormis* Fries. S. M. II, p. 411 et Sacc. Syll. II, pag. 487, *Valsa abnormis* Cooke in Grevillea XIII, p. 39. — Sporidia allantoidea, hyalina, minuta.

VALSA Fr. — Sacc. Syll. I, p. 108.

1. **Valsa Opulifoliæ** Peck 88 Rep. St. Mus. p. 103. — Stromatibus 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 latentibus; ascis subclavatis, pedicellatis, 20-40 \approx 6-8 p. sp.; sporidiis allantoideis, sursum inordinatis, basi monostichis, 10-12 \approx 2-2,5.

1860

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

2. **Valsa grisea** Peck in Torr. bot. Club. 1884, p. 28. — Stromati-

1861

bus parvis; peritheciis 4-5 in quoque stromate, in cortice interiore nidulantibus, collis convergentibus atque discum orbicularem, minutum, erumpentem, griseum vel brunneum perforantibus; ostioli punctiformibus, nigris; ascis clavatis, 50-60 μ . longis; sporidiis allantoideis, 10-12 μ . longis, hyalinis.

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

3. **Valsa leucostomoides** Peck 38 Rep. St. Mus. pag. 103. — Stro- 1862
matibus numerosis, minutis, epidermide, disco orbiculari, albo vel griseo perforata, tectis; peritheciis 2-6 vel magis, in quoque stromate; ostioli punctiformibus, nigris; ascis clavatis vel subfusiformibus, 40-50 \approx 8,5-10; sporidiis stipatis, allantoideis, 12-15 \approx 4-5, hyalinis.

Hab. in ramis emortuis Aceris saccharini in montibus Helderberg Amer. bor. — *Valsæ leucostomæ* affinis.

4. **Valsa diatrypoides** Rehm Beitr. in Hedw. 1882, p. 117. — Stro- 1863
matibus, c. 3 mm. diam., e basi orbiculari convexo-protuberantibus et in discum coronæ instar protractis; disco plano, rotundo, fusco-albido, 1 mm. lat.; peritheciis in singulo conceptaculo 4-10, monostichis, globosis; ostioli minutissimis, punctiformibus, rotundis, atris, discum nonnihil superantibus et orbiculariter ordinatis; ascis teneris, clavatis, 8-sporis, 40 \approx 6; sporidiis cylindricis, obtusis, subcurvatis, hyalinis, 9 \approx 1,5, distichis.

Hab. ad ramum siccum Alni incanæ juxta ripam fluvii pr. Augustam Vindelicorum seu Augsburg (BRITZELMAYR). — Forma stromatis et sporidiorum diametro a ceteris diversa species.

5. **Valsa diatrypa** Fr. — Syll. I, p. 141. — Post « octosporis » lin. 18
18 adde: 80-10 \approx 8-16; sporidiis distichis cylindræis.
6. **Valsa agnostica** Cooke et Harkness in Grevillea XIII, p. 17. — 1864
Erumpens, subrotunda, convexa; cæspitulis in cortice nidulantibus, primo tectis, demum disco suborbiculari nudo; peritheciis 8-12, subglobosis, atris, in stromate pallido aggregatis; ostioli 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).

7. **Valsa minutella** Peck in Torr. bot. Club. 1884, p. 27. — Pustu- 1865
lis minutis; peritheciis 6-20 in quaque pustula, cortice nidulantibus nigris; ostioli in discum minutum, subferrugineum, epidermide rupta cinctum, erumpentibus, nigris; ascis brevibus, clavatis vel

fusiformibus, breviter pedicellatis, 22-30 \approx 5-6; sporidiis allantoidis, stipatis, 5-6 μ . longis.

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

8. **Valsa sibirica** Thuem. Beitr. Pilz. Fl. Sib. V, p. 19, n. 920. — 1866

Peritheciis sparsis, stromate vix ullo, cortice interiore nidulantibus, 9-12, globoso-conicis, prominulis; ostiolis perforatis, discum fusco-atrum albido-furfuraceum sistentibus; ascis clavato-cylindraceis, curvulis, apice acutiusculis, substipitatis 40 \approx 6-7, octosporis; sporidiis subdistichis, arcuatis, utrinque rotundatis, hyalinis, eguttatis, 15 \approx 3.

Hab. in ramulis aridis Cotoneastri melanocarpæ in desertis prope Minussinsk Sibiricæ asiaticæ (MARTIANOFF). -- *Valsæ leucostomæ* cognata.

9. **Valsa ambiens** (Pers.) Fr. — Syll. I, p. 131. — ***dolosella** Sacc. 1867

Mich. II, p. 606. — Ostiolis (e loco udo?) emergentibus, crassis, atris; ascis fusoideo-clavatis subsessilibus, 55-60 \approx 10-12, octosporis; sporidiis botuliformibus 16-18 \approx 4-5, curvulis, hyalinis.

Hab. in ramis corticatis suffocatis Fraxini in Gallia (THERREY), socia *Cytospora*. — Habitu toto ad *Valsam dolosam* (Fr.), Nits. accedit, quæ etiam forte est forma *Valsæ ambientis* in humidis evoluta.

10. **Valsa conoidea** Rehm Beitr. in Hedw. 1882, pag. 118. — Stro- 1868

mate corticis parenchymati immutato, plus minusve elevato innato, sæpe longe effuso ramosque ambiente et corticis superficiem vario modo, plerumque longitudinaliter diffundente; peritheciis corticis strato supremo immersis, mediocribus, monostichis, globosis, nunc solitariis, nunc gregariis v. seriatis, collo brevi, ostiolo magno, conoideo, truncato, perspicue perforato peridermium seriatim perforantibus et verrucis nigris instar prominulis, sæpe etiam in crustam ellipticam, nigram connatis; ascis clavatis, 8-sporis, 70 \approx 15; sporidiis rectis vel subcurvatis, cylindricis, obtusis, hyalinis, 20 \approx 6; paraphysibus crassis, articulatis.

Hab. ad ramos siccos Berberidis in alpebus Tyrolensibus prope Bärenbad in valle Stubai, in valle Oetz et prope Gries in valle Sellrain (Doct. REHM). — *V. Cypri* et *germanicæ* affinis videtur.

11. **Valsa opulina** Sacc. et S. nep. F. Sibir. p. 12, f. 6. — Acervu- 1869

lis gregariis, subcutaneis pulvinatis, 1,5 mm. lat., ambitu circula-

ribus; peritheciis 5-8 circinantibus, globulosis, $\frac{1}{3}$ mm. lat., ostioli cylindræis, breviusculis, in discum subcircularem nigrum 250 μ . diam., levem epidermide arcte cinctum desinentibus; ascis fusoides, subsessilibus, 45-60 \times 10-13; sporidiis distichis, allantoideis, 18 \times 2,5, hyalinis.

Hab. in ramulis emortuis Viburni Opuli in silvis pr. Patroschilowo Sibiriaë. — *Valsæ salicinæ* affinior.

12. **Valsa betulicola** Schulz. Bot. Centr. 1883, XV, pag. 3. — Stromate valseo, sub epidermide nidulante, parenchymati corticis interioris immerso, ab ejus substantia parum mutata, infuscata, composito, friabili, subinde sterili; peritheciis in quoque stromate paucis, sæpe tantum singulis, monostichis, atris, corneis, subsphæroides, ad basim quandoque applanatis aut impressis, 300-550 μ . lat., cum ostiolo 500-650 μ . alt., ostioli cylindræis, 200-300 \times 70-150, nec prominulis; ascis cylindræo-clavatis, subsessilibus, 8-sporis, 86-92 \times 13-14, aparaphysatis; sporidiis cylindræis, sæpe curvulis, 16-20 \times 4, hyalinis, irregulariter guttulatis. 1870

Hab. ad ramos dejectos Betulæ albæ, Djakovar Slavoniaë.

13. **Valsa cornina** Peck in 38 Rep. St. Mus. p. 102. — Stromatibus minutis, sparsis, primum epidermide tectis demum, eâ longitudinaliter ruptâ, nudis; peritheciis 2-5 in quoque stromate, in parte interiore corticis nidulantibus, nigris; ostioli vix exsertis; ascis clavatis, sursum rotundatis, 50 \times 10; sporidiis in asci parte superiore congestis, allantoideis, 15-17 \times 4. 1871

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

14. **Valsa fraxinina** Peck in Torr. bot. Club. 1884, p. 28. — Pustulis parvis; peritheciis minutis, in quoque stromate 3, cortice interiore nidulantibus; ostioli minutis, punctiformibus, nigris; ascis subclavatis, 50-60 \times 8; sporidiis allantoideis, stipatis, 12-17 \times 4-5, hyalinis. 1872

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

15. **Valsa prunicola** Peck in 33 Rep. St. Mus. 1883, p. 33. — Pustulis sparsis, leniter prominulis, epidermidem perforantibus vel transverse erumpentibus; peritheciis 10-12 ligno immersis vel cortice interiore nidulantibus; ostioli stipatis, vix exsertis; ascis fusiformibus v. subcylindræis, rectis aut vix curvulis, quadrinucleatis, hyalinis, 12-15 \times 4. 1873

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

16. **Valsa aperta** (Fr.) Cooke in Grevillea XIII, pag. 40, *Sphæria* 1874
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; ostiolis
 perithecio duplo longioribus, erumpentibus, primo pro more con-
 vergentibus dein erectis, apice perforatis; ascis clavato-cylindra-
 ceis; sporidiis allantoideis, hyalinis, $18 \approx 6$.

Hab. in ramis Populi in Suecia et America bor.

17. **Valsa subseriata** Cooke in Grevillea XIV, pag. 47. — Pustulis 1875
 convexis, erumpentibus, subdiscoideis, 3-4, vix ultra longitudina-
 liter seriatis; peritheciis 10-16, subglobosis, sursum in ostiola, elon-
 gata, levia, congesta productis; ascis clavatis, breviter stipitatis;
 sporidiis majusculis, allantoideis, hyalinis, $30 \approx 6$.

Hab. in ramis Fagi, Shere Britannicæ (D. CAPRON).

18. **Valsa Menispermii** E. et Hol. in Journ. of Myc. I, p. 4. — Pe- 1876
 ritheciis circinatis stromate corticali, non linea circumscripto, 6-
 10 immersis, circiter $\frac{1}{4}$ mm. diam., contextu celluloso, membrana-
 ceo, ostiolis brevissimis atque in discum circularem, $\frac{1}{2}$ - $\frac{1}{8}$ mm.
 diam., epidermide linea nigra, circulari signata tectum coalitis;
 ascis clavatis, $70 \approx 12$; sporidiis numerosis, cylindraceis, luteis, cur-
 vatis, $15-20 \approx 4-6$.

Hab. in caulibus emortuis Menispermii canadensis in Ame-
 rica septentrionali.

19. **Valsa Orni** Rehm Ascom. Lojk. n. 15, p. 37. — Stromate e basi 1877
 suborbiculari conico-convexo, in cortice interiore nidulante ejusque
 materiam non mutante, epidermide circa ostiola facile solubili, pu-
 stulata; peritheciis in singulo stromate 8-12, monostichis, dense
 stipitatis, globosis, mediocribus, in collum attenuatis; ostiolis epi-
 dermidem vix superantibus, in disco minuto aggregatis, rotunda-
 tis, atris, poro pertusis, sessilibus; ascis clavatis, 8-sporis; spo-
 ridiis cylindricis, obtusis, vix curvatis, 1-cellularibus, hyalinis, 15
 $\approx 3-4$.

Hab. ad ramum siccum Fraxini Orni in valle Kolczvarensi
 (Hunyad) Transylvaniæ (LOJKA).

20. **Valsa implicata** (Lév.) Berl. et Sacc. Add. Syll. p. 400, *Sphæria* 1878
implicata Lév. in Ann. Sc. Nat. 1863, p. 295. — Peritheciis glo-
 bosis, aggregatis, ostiolis prominulis, angulatis, in discum erum-
 pentem, nigrum stipitatis; paraphysibus tenuissimis, muco involutis;
 ascis cylindrico-clavatis; sporidiis octonis, cylindricis, utroque fine
 obtusis, curvatis, continuis, hyalinis.

Hab. in corticem arborum in Nova Granata (LINDIG).

21. **Valsa Saffianoffiana** Sacc. et Berl. F. Sib. p. 11, f. 5. — Peri- 1879

theciis in acervulos elevatos, cortice interiore hinc inde nidulantes, dispositis, irregulariter monostichis v. subpolystichis, globosis, 10-30 in quoque acervulo, ostiolis cylindraceutis, breviusculis, in fasciculo libero collectis, apice incrassatulis, poro minuto pertusis; ascis clavatis, subsessilibus, 36-40 \approx 6-7, octosporis; sporidiis subdistichis, cylindraceutis, rectis v. curvatis, 10-12 \approx 3-5, hyalinis.

Hab. in ramis emortuis Tamaricis pentandræ in silvis pr. flum. Üss Sibiricæ (SAFFIANOFF). — *V. cœnobiticæ*, *V. ceratophoræ* et *V. Rubi* affinis.

22. **Valsa Thujæ** Peck 40 Rep. p. 67. — Pustulis sparsis, subpro- 1880

minulis, epidermide conferte tectis; peritheciis cortice interiore nidulantibus, subcircinatis, 5-10 in quavis pustula; ascis oblongo-clavatis, 35-40 μ . long.; sporidiis allantoideis, 10-12,5 \approx 2-2,5.

Hab. in ramis emortuis Thujæ occidentalis, Elizabethtown Amer. bor.

23. **Valsa ceratophora** Tul. — Syll. I, p. 108. — Var. **Arbuti** B. et 1881

V. Funghi Ancon. p. 3, t. I, f. 1. — Pustulis parvis, usque 1 mm. v. paullo amplius lat., subcircularibus v. ellipsoideis, peridermium rimose ruptum elevantibus, late conoideis; peritheciis in quoque stromate 5-15, circinatis, furfure fuscescente immersis, parum stipatis, monostichis, collis longiusculis, quam in typo brevioribus v. fere fasciculatim assurgentibus, ostiolo minuto pertusis; ascis cylindraceutis vel anguste cylindraceuto-clavatis, 28-30 \approx 4-5; sporidiis octonis, distichis, allantoideis, 7-8 \approx 1-2, eguttulatis, hyalinis.

Hab. in ramulis emortuis Arbuti Uredonis pr. Ancona Italiæ. — Differt a typo præcipue ostiolis brevioribus.

24. **Valsa floriformis** Ell. et Ev. Proc. Phil. 1890, p. 222. — Stro- 1882

matibus conico-hemisphæricis, circ. 2 mm. lat., 1,5 mm. alt., cortice interiore insidentibus, epidermide nunc simpliciter pertusa, nunc a fasciculo crasso, 1 v. ultra mm. long., ostiolorum subeffusorum, obtusiuscule acuminatorum, sublacinato-fissa, tectis; peritheciis 25-30 in quoque stromate, 1-stratosi, $\frac{3}{4}$ -1 mm., ovoideis v. irregularibus, supra in colla gracilia, ostiolis per discum flavidum mox oblitteratum erumpentibus, contractis; ascis parte sporif. 35-40 \approx 5; sporidiis distichis, cylindraceutis, hyalinis, subincurvatis, 6-8 \approx 1,5, octonis.

Hab. in ramulis Populi moniliferæ pr. Concordia Montana Amer. bor. — Differt a *V. Verrucula* ostiolis longis, ascis sporidiisque minoribus.

25. **Valsa congesta** Pat. Journ. Bot. 1889, p. 342, c. ic. — Peritheciis nigris, ovoideis, collo longo circ. 3 mm. long., recto vel flexuoso præditis, numerose gregariis, vix immersis; ascis clavatis, 8-sporis, $20 \approx 4,5$; sporidiis hyalinis, cylindræis, incurvis, $4 \approx 1$.

Hab. in trunco putri et decorticato Mangiferæ indicæ in insula Martinica.

26. **Valsa Bovei** Speg. F. Pat. n. 114. — Acervulis laxè gregariis, cortice innatis, e lenticulari conoideis, 1-1,5 mm. diam., peridermio sublevato tectis, 12-15-peritheciigeris, disco majusculo, parum erumpenti-exserto donatis, stromate subfriabili albicante; peritheciis globosis, 250-300 μ . diam., atris, stromate immersis, dense constipatis, coriacellis, atris, submembranaceis, ostiolis longiusculis, fasciculatim conniventibus, cylindræis, atris, subcarbonaceis, apice obtusis, 400-500 \approx 80-120, discum efformantibus, ornatis; ascis clavulatis v. fusoides, sessilibus, antice obtuse rotundatis vel subtruncatis, 38-40 \approx 5-6, basi attenuato-obtusatis, octosporis, paraphysatis; sporidiis recte v. oblique distichis, botuliformibus, utrinque obtuse rotundatis, 8-10 \approx 2, hyalinis.

Hab. in ramis emortuis Genistæ? sp. ind. pr. Misioneros secus Rio S. Cruz Patagoniæ.

27. **Valsa subcongrua** Rehm Ascom. n. 632, Hedw. 1882, p. 75. — Peritheciis monostichis, globosis, in cortice interiore nidulantibus, circ. 8 in quovis stromate, dense stipatis, collis plerumque breviusculis, interdum usque ad 1 mm. long., elongatis et subcurvatis, in disculum atrum, planum vel subconvexulum, 0,7 mm. lat., rotundatum conjunctis, disculo corticem pustulatim elevatum coronante; stromatibus gregariis, ramulos ambientibus et epidermidem cribrantibus; ascis clavatis, 8-sporis, 21 \approx 4-5; sporidiis cylindricis, hyalinis rectis vel subcurvatis, distichis 3-4 \approx 1; paraphysibus longis, teneris, septatis c. 5 μ . crass.

Hab. ad ramum putrescentem Alni viridis in Monte Buchenegg pr. Oberstauffen alpium Algoviæ Germ. (BRITZELMAYR).

28. **Valsa Myricariæ** Rehm in Voss Myc. Carn. III, p. 176, — Stromatibus minutis e basi orbiculari subconicis, nigris, cortice interiori sæpe longe lateque denigrato nidulantibus, peridermium rimosè perforantibus, hujusque laciniis cinctis; spermogonio centrali; peritheciis in quoque stromate 8-12, monostichis, minutis, dense stipatis, collis brevibus, cylindræis, connatis in disculo griseo vix prominentibus; ascis fusiformi-clavatis, 36-40 \approx 6-6,5; sporidiis continuis, subrectis, hyalinis, 6 \approx 1,5,

Hab. in ramulis emortuis *Myricariæ germanicæ* ad ripas fl. Save pr. Lees in Carniolia sup.

29. **Valsa tenella** H. Fab. Spher. Vaucl. II, pag. 32. — Peritheciis 1887
10-20, absque stromate coacervatis, cortici immutato infossis, globosis, $\frac{1}{6}$ mm. latis, ostiolis papillulatis, glomerulatis, ex matrice longitudinali rimâ erumpentibus; ascis lanceolatis, sessilibus, 8-sporis, $30 \approx 6$; sporidiis subdistichis, utroque polo puncto micante præditis, $9 \approx 2$.

Hab. ad ramos exaridos *Ericæ vulgaris*, Vaucluse Galliæ. — Forma ***Ericæ arboreæ*** Passer. F. N. IV, pag. 3: ostiolis foramine circulari, non rima longitudinali, emersis et sporidiis vix v. non ad polos nucleatis, a typo distinguenda. Ad ramos siccos *Ericæ arboreæ*, Roma. — Ad *Valsam fallacem* Nits. nutare videtur.

30. **Valsa pallida** Ell. et Ev. Journ. Myc. 1888, p. 58. — Stromati- 1888
bus subhemisphæricis, carneis vel sordide albis, circ. 2 mm. diam., nigro-limitatis, conferte gregariis; peritheciis 4-8 in quoque stromate, parvulis, collo gracili, ostiolo vix e disco farinaceo-prominente, late depresso-hemisphærico, ruguloso, nigro, 4-sulcato-fisso pertuso, instructis; ascorum p. sp. $35-45 \approx 6-7$; sporidiis distichis, hyalinis, subincurvis, continuis, $6-8 \approx 1,5-2$.

Hab. ad corticem emortuum *Salicis* South Butler, N. Y. Amer. bor. — A *V. verrucula* Nits. differt peritheciis numerosis ostiolisque elongatis.

31. **Valsa deusta** Ell. et Ev. Journ. Myc. 1888, p. 62. — Peritheciis 1889
4-6, ligni superficie immersis, corticem pustulatim elevantibus, pariete crasso, sicco intus micanti-nigro instructis, ostiolis in fasciculum compactum erumpentibus, breviter cylindræis, $\frac{1}{2}$ mm. long., obtusis, quadrisulcatis; ascis clavatis, p. sp. circ. $15 \approx 4$; sporidiis confertis, octonis, allantoideis, valde incurvatis, $3,5-4 \approx 0,5-0,7$.

Hab. ad ramos dejectos *Caryæ*, corticem subtus nigrificans, St. Martinsville, La. Amer. bor. (LANGLOIS).

32. **Valsa guarapiensis** Speg. Fung. Guar. Puig. I, n. 181. — Peri- 1890
theciis hinc inde monostiche aggregatis, in cortice nidulantibus epidermidemque pustulatim minute 0,4-0,6 mm. diam. elevantibus globosis, membranaceis, contextu parenchymatico-elongato, dilute olivaceo, ostiolis brevibus, carbonaceo-atris, convergentibus ac disculum irregularem et vix exsertum efformantibus ornatis; ascis fusoides, parte sporifera, subfusoides, $30-35 \approx 6$, apice truncatis, basi in stipitem, mox fatiscentem, elongatum, $70-80 \approx 1-2$, hyalinum pro-

ductis, octosporis; sporidiis distichis, botuliformibus, 5-6 \approx 1, utrinque 1-guttulatis, hyalinis.

Hab. ad ramos plantæ scandentis (Cissus?) cujusdam prope Guarapí Brasilæ.

33. **Valsa morigena** B. et C. in Grevillea XIV, p. 46. — Peritheciis 1891 globosis, linea nigra circumscriptis stromateque pallido, corticali immersis, demum crusta nigrificata tectis, ostiolis in discum minutum, atrum subconfluentibus, prominulis; ascis cylindraceo-clavatis; sporidiis allantoideis, hyalinis, 10 \approx 2.

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

34. **Valsa pusio** B. et C. in Grevillea XIV, p. 46. — Pustulis par- 1892 vulis, erumpentibus; peritheciis atris, subglobosis in cortice nidulantibus, epidermide fissa cinctis; ostiolis subrugosis, brevibus, truncatis in disco orbiculari emergentibus; ascis clavatis, subsessilibus, octosporis; sporidiis allantoideis, hyalinis, subfuscidulis, 8 \approx 2.

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

35. **Valsa pullula** B. et C. in Grevillea XIV, p. 47. — Pustulis par- 1893 vulis, primo tectis (statu imperfecto in Herb. Berk.); ascis clavatis, octosporis; sporidiis cylindraceis, utrinque rotundatis, leniter curvulis (sæpe rectis), hyalinis, 8 μ . longis.

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

36. **Valsa coryneoides** B. et C. in Grev. XIV, p. 47. — Pustulis 1894 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.

37. **Valsa lasiostoma** Ell. et Ev. in Torr. bot. Club. 1883, p. 89. 1895 — Peritheciis circinatis, 330-500 μ . diam., globosis, tuberculoso-rugosis, superficie corticis interioris insidentibus vel vix infossis, in colla, 100-150 μ . longa, cylindracea, tecta, epidermidem fasciatim perforantia discum non efficientia desinentibus; ascis 35-40 \approx 4-5 p. sporif.; sporidiis cylindraceis, hyalinis, leniter curvulis, 5-6 \approx 1,5-2.

Hab. in ramis dejectis Quercus albæ, Newfield N. J. Am. bor.

38. **Valsa Mulleriana** Cooke in Grevillea XIV, p. 46. — Pustulis 1896 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 v. altera pustula, piriformibus, 2-3-septatis, longitudinaliter divisis, fuscis, $12-14 \approx 9$.

Hab. in ramis *Quercus*, Eastbourne Britanniae (MULLER).

39. **Valsa Lupini** Cooke et Harkn. in *Grevillea* XIV, p. 8. — 1897
 Acervulis 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).

40. **Valsa fagicola** Ell. et Ev. in *Bull. Torr. Bot. Club.* 1883, p. 118. 1898
 — 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 ≈ 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 ferruginæ*, West Chester Americæ borealis.

41. **Valsa Lavateræ** Cooke et Harkn. in *Grevillea* XIV, pag. 8. 1899
 — Acervulis gregariis, ligno nigrificato immersis, epidermide tectis; peritheciis 3-6, subglobosis, atris; ostioliis elongatis, cylindræis, tenuibus, emergentibus; ascis clavatis, octosporis; sporidiis allantoideis, hyalinis, $8 \approx 2$.

Hab. in caulibus *Lavateræ assurgentifoliæ* in California (HARKNESS).

42. **Valsa erinacea** (B. et Rav.) Cooke Grev., *Hypoxyton erinaceum* B. et Rav., *H. Ravenelii* Sacc. *Syll.* I, n. 1496. — Ostiola longicollia, sporidia hyalina, allantoidea (COOKE).

43. **Valsa rhizina** (Schw.) Cooke in *Grevillea* XIII, p. 3, *Sphæria rhizina* Schw. *Syn. Amer. bor. n.* 1398 et *Sacc. Syll.* II, p. 388.
 — Sporidia allantoidea, $9 \approx 3$.

44. **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, $6 \approx 4,5$.

45. **Valsa Ceanothi** (Schw.) Cooke in *Grevillea* XIII, p. 39, *Sphæria*

- Ceanothi* Schw. Syn. Amer. bor. n. 1376 et Sacc. Syll. II, p. 383.
— Sporidia allantoidea, 20 \approx 6.
46. **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.
47. **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.
48. **Valsa conseptata** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphæria conseptata* Schw. Syn. Amer. bor. n. 1374 et Sacc. Syll. II, p. 382. — Sporidia allantoidea, hyalina, 8,3 \approx 3,2.
49. **Valsa quadrifida** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphæria quadrifida* Schw. Syn. Amer. bor. n. 1378 et Sacc. Syll. II, pag. 381. — Sporidia allantoidea, hyalina, 9 \approx 3,2.
50. **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.
51. **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.
52. **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.
53. **Valsa Radicum** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphæria Radicum* Schw. Syn. Amer. bor. n. 1335 et Sacc. Syll. II, p. 380. — Sporidia allantoidea, 10 μ . longa.
54. **Valsa juglandicola** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphæria juglandicola* Schw. Car. n. 102 et Sacc. Syll. II, p. 379. — Sporidia allantoidea, 6 \approx 2.
55. **Valsa variolaria** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphæria variolaria* Schw. Syn. Amer. bor. n. 1371 et Sacc. Syll. II, p. 380. — Sporidia allantoidea, 7,8 \approx 3,2.
56. **Valsa aractina** (Fr.) Cooke in Grevillea XIII, p. 39, *Sphæria aractina* Fries S. M. II, p. 391 et Sacc. Syll. II, p. 384. — Sporidia allantoidea, 10 μ . longa.
57. **Valsa deformis** (Fr.) Cooke in Grevillea XIII, p. 39, *Sphæria deformis* Fries S. M. II, p. 398 et Sacc. Syll. II, p. 485. — Sporidia allantoidea, hyalina, 6-8 \approx 1,5.
58. **Valsa Sallei** (Berk.) Cooke in Grevillea XIII, pag. 38, *Sphæria*

- Sallei* Berk. En. Fungi St. Domingo, pag. 12 et Sacc. Syll. II, p. 379. — Sporidia allantoidea, hyalina, minuta.
59. **Valsa Cathartocarpi** (Lév.) Cooke in Grevillea XIII, p. 38, *Sphaeria Cathartocarpi* Lév. Ann. scienc. nat. 5, 1846, p. 459 et Sacc. Syll. II, p. 380. — Sporidia allantoidea, hyalina, 10 \approx 3.
- EUTYPELLA** (Nits.) Sacc. — Sacc. Syll. I, p. 147.
1. **Eutypella parvula** Sacc. Misc. Myc. I, n. 2198. — Stromatibus 1900
laxe parallele gregariis, elongato-lanceolatis, erumpentibus basi ligno infossis, convexiusculis, nigris, 1½ mm. long., ½ mm. crassis; ostiolis exiguis, vix exstantibus, obtusis, angulosis; peritheciis globosis, atris, paucis, monostichis, extus albido-furfurellis; ascis clavatis, longe stipitatis, 110 \approx 10, p. sporif. 50-60 μ . longa, octosporis; sporidiis distichis, allantoideis, curvulis, 11-14 \approx 3, pallide olivaceis.
- Hab.* in ramulis denique decorticatis *Symphoricarpi racemosæ*, Saintes (BRUNAUD). — Stromatibus lanceolatis, minutis imprimis dignoscenda species.
2. **Eutypella aleurina** (B. et Cooke) Berl. et Vogl. Add. Syll. p. 30, 1901
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.
- Hab.* in cortice Platani in Carolina inf. Amer. bor.
3. **Eutypella Mori** Schulz. et Sacc. in Rev. Myc. 1885, Schulz. Ill. 1902
Fung. Slav. n. 980. — Stromatibus laxè gregariis, innato-erumpentibus corticulis, verruciformibus, ½-2 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*.
4. **Eutypella Pseudacaciæ** Brun. Champ. Saint. VII, pag. 1. — Stro- 1903
matibus magnitudine varia, sparsis vel gregariis, sæpe confluentibus, cortice innatis, erumpentibus, basi orbicularibus v. ellipsoideis, convexis, ostiolis asperatis, extus brunneo-nigris, intus albi-

dis, epidermidis fragmentis cinctis; peritheciis 7-20 in quoque stromate, polystichis, confertissimis, subglobosis, collis non convergentibus, ostiolis brevibus, perforatis, spissis, rugoso-sulcatis, emergentibus; ascis subfusoidis, pedicellatis, 8-sporis, p. spor. 75-85 = 6-7; sporidiis distichis, subinde subtus 1-stichis, rectis v. curvis, subhyalinis, 9-14 = 1,5-2.

Hab. ad ramos emortuos Robiniæ Pseudacaciæ, Santes Galliæ.

5. **Eutypella minuta** Berl. et F. Sacc. Contr. Lus. p. 2. — Stromatibus sparsis, erumpentibus, peridermio laciniatim fissis cinctis, usque 1 mm. diam.; peritheciis monostichis, non stipatis, globoso-conoideis, in collum stromatis superficiem vix superantem desinentibus, ostiolis punctiformibus non sulcatis, pertusis, $\frac{1}{6}$ - $\frac{1}{5}$ diam.; ascis clavatis, longe stipitatis, 50-60 = 7 p. spor., 8-sporis; sporidiis allantoideis, 11-13 = 2,5-3, subhyalinis.

Hab. in ramis emortuis Lauri nobilis et Cercidis Siliquastri, Cerra de San Benito in Lusitania.

6. **Eutypella longirostris** Peck 43 Rep. p. 34, t. IV, f. 8-12. — Stromate suborbiculari, convexo, e corticis substantia leniter mutata formato, albido, crusta nigro oblecto, sæpe seriatim subconfluente; peritheciis minutis, globosis, in quoque stromate paucis vel multis, ostiolis elongatis, fasciculato-confertis, rectis vel flexuosis, sæpe 2 mm. long., apice et interdum lateribus sulcatis, nigris; ascis clavatis, pedicellatis, p. sporif. 17,5-22,5 = 4; sporidiis minutis, incurvis, 5-6,5 μ . long.

Hab. in cortice Ulmi Americanæ, Sandlake et Syracuse Amer. bor.

7. **Eutypella Laburni** Allesch. Suedbay. Pilze p. 200, t. II, f. 5. — Stromatibus e basi orbiculari v. elliptica semiglobosis v. pulvinatis, sæpe etiam lenticularibus, ad basim disci ostiolorum valde constrictis, ligno semiimmersis, intus albidis, dein opace nigris; peritheciis numerosis, subglobosis, inordinate polystichis, collis elongatis, conicis, ostiolis 4-sulcatis, valde confertis, micanti-nigris; ascis minutissimis, anguste clavatis, longe stipitatis, p. sporif. circ. 20-24 = 3-4; sporidiis subdistichis, cylindratis, incurvis, subhyalinis, 5-6 = 1-1,5.

Hab. in ramis siccis Cytisi Laburni prope München Bavariciæ.

8. **Eutypella Syringæ** Brun. Champ. ajout. Saint. p. 243. — Stromatibus e cortice ortis, ligno adnatis, dein erumpentibus, epidermi-

dis laciniis strictè cinctis, valseis, conicis, apice truncatis, basi sub-orbicularibus, 1 mm. circ. diam., sparsis, subinde confluentibus, extus nigris, intus albis, ob ostiola asperatis; peritheciis 4-6 in quoque stromate, submonostichis, globoso-subangulosis, collis subelongatis, ostiolis brevibus, apice rotundatis, pertusis; ascis oblongo-clavatis, stipitatis, 8-sporis, 45-60 \approx 6-8; sporidiis distichis, cylindraceis, utrinque rotundatis, rectis vel curvis, 10-14 \approx 2-2,5, hyalinis, dein subluteolis.

Hab. ad ramos emortuos *Syringæ vulgaris*, La Rochelle Saintes Galliæ.

9. **Eutypella microcarpa** E. et E. Journ. Myc. 1888, p. 122. — Peritheciis 4-12-aggregatis, cortice interiore pallide ardosiaco-maculato immersis, cortice exteriori in pustulas elevato, plus minus fissis, ostiolis pertuso, tectis, basi in ligno vix immersis, globosis, circ. $\frac{3}{4}$ mm. diam., pariete coriaceo, crasso, intus nigro-micante, ostiolis cylindraceis, rugosis, nigris, 1-2 mm. long., apice 4-sulcato-fissis, basi in fasciculum coalitis, supra divergentibus; ascis minutis, 12-14 \approx 4-5, parte spor., basi gracili; sporidiis confertis, coarctatis, flavidis, allantoideis, valde incurvis, utrinque 1-guttatis, 3-4 \approx 1. 1908

Hab. in ramis dejectis *Persicæ* (?), St. Martinsville, La. Americæ borealis.

10. **Eutypella australis** Karst. et Har. Rev. Myc. 1890 oct. — Stromatibus inordinate dispositis, tectis, exiguis; peritheciis paucis, 1-8 in quovis stromate, cortice interiore nidulantibus, subsphæroideis vel mutua pressione difformibus, atris, ostiolis prominulis, brevibus, stipatis v. connatis, difformibus, sæpe infime sulcatis; ascis cylindraceo-clavatis, circ. 40 \approx 5; sporidiis octonis, distichis, allantoideo-curvulis, hyalinis v. flavescentibus, 9-12 \approx 2. 1909

Hab. in Neo-Caledonia (BALANSA). — Ad *Eutypellam cristatellam* (B. et C.) proxime accedit.

11. **Eutypella clavulata** Cooke Grev. XVIII, p. 86. — Stromate val-seo, e basi orbiculari, conico, obtuso, cortice innato; peritheciis 12-20 congestis, ostiolis elongatis, clavulatis, 4-5, sulcato-rugosis, exertis, atris, opacis; ascis clavatis, 30 \approx 10, 8-sporis; sporidiis allantoideis, minutissimis, 3-4 \approx 1 vel minoribus, hyalinis. 1910

Hab. in cortice *Ailanthi*, Staten Island (Mrs. BRITTON). — Habitus *V. ceratophoræ*.

12. **Eutypella capillata** Ell. et Ev. Journ. Myc. 1888, pag. 74 (ex err. 62). — Stromatibus pustuliformibus, 2-3 mm. diam., numero- 1911

sis, confertis, per 5-20 cm. corticem carbonaceo-nigrificatum efficientibus, contiguis, linea nigra limitatis; peritheciis membranaceis, pariete crasso, sicco intus nigro-micante præditis, 6-12-aggregatis, indistincte circinantibus, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., ostiolo capillari, longissimo, 0,5-1 cm. long., uncinato, rugoso, fragili, apice rotundato, 4-5-sulcato; ascis clavatis, truncatis, 15 \approx 3,5 p. sporif., stipite 15 μ . long., aparaphysatis; sporidiis octonis, confertis, coacervatis, flavidis, valde curvis, 2-guttatis, 3,5 \approx 0,3.

Hab. ad ramos dejectos Martinsville Amer. bor. (LANGLOIS). — Adest varietas subsimplex.

13. **Eutypella canadisca** Ell. et Holw. Proc. Phil. 1890, p. 223. — 1912

Stromate depresso-hemisphærico, 1,5-2 mm. diam., supra applanato, et disco orbiculari, nigrescenti-griseo definite limitato, 1-1,5 mm. diam., centro ostiolorum fasciculo pertuso, tecto; peritheciis 6-15 in quovis stromate, ovoideis vel subangulosis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. d.; pariete crasso, nigro, supra in collos breves, ostiolis 4-sulcatis suberumpentibus præditis, contractis; ascis circ. 100 μ . long., p. sp. 50 \approx 10-12, basi gracili; paraphysibus filiformibus, numerosis; sporidiis octonis, allantoideis, flavidis, modice incurvis, 12-18 \approx 3,5-4.

Hab. ad ramos emortuos Salicis, Decorah Jowa Amer. bor.

14. **Eutypella confluens** (Nits.) Sacc. Syll. I, p. 353. — ***Morthieri** 1913

Sacc. Mich. II, p. 591. — A typo differt stromatibus sparsis (nec seriatis, nec confluentibus); peritheciis majusculis, ostiolis 3-4-rimosis; ascis fusoides stipitatis, parte spor. in medio asco 30 \approx 6, pseudo-paraphysibus longioribus obvallatis, octosporis; sporidiis allantoideis 7-9 \approx 1,7, pallide olivaceis.

Hab. in ramis quercinis in Helvetia (MORTHIER).

15. **Eutypella venusta** (Ell.) Sacc. *Valsa venusta* Ell. Torr. Bot. 1914

Cl. 1882, p. 112. — Peritheciis in acervulos corticales, linea nigra lignum penetrante circumscriptos, 15-20 dense aggregatis, 250 μ . diam., ostiolis cylindræis, tenuibus, rugulosis, apice leniter incrassatis, perithecio 2-3-plo longioribus, initio in disculum nigrum, inæqualem, elongatum connexis; disculo per rimas longitudinales emergente, denique ostiolis compactis obtusis oblitterato; ascis tereti-clavatis, 50-60 \approx 5-7, nucleato-paraphysatis; sporidiis octonis cylindricis, valde curvatis, 2-4-nucleatis, 8-11 \approx 1,5-2, hyalinis.

Hab. in ramis emortuis Robiniæ Pseudacaciæ, New Jersey Amer. bor. (ELLIS).

16. **Eutypella lutescens** (Ellis) Sacc. *Valsa lutescens* Ellis in Torr. 1915

Bot. Cl. 1882, p. 111. — Stromate corticali; peritheciis subglobosis,

10-15, subcircinantibus, disco denique erumpente, brunneo, convexo, ostolis breve cylindræis obtusis, substellato-rimosis, pr. perithecia digestis; ascis lanceolatis, p. sporif. $36 \approx 6$; sporidiis cylindræis, hyalinis, curvis, $6-7,5 \approx 2,5$.

Hab. in truncis *Quercus coccineæ*, Amer. bor. — Lignum stromati subpositum plerumque flavescit.

17. **Eutypella? niphoclina** (C.) Sacc., *Valsa niphoclina* Cooke Grev. 1916 XI, p. 109. — Lineato-erumpens; peritheciis ovatis, in stromate niveo nidulantibus, ostiolis brevibus, convergentibus, sulcatis, in lineas transversas erumpentibus; ascis cylindrico-clavatis; sporidiis allantoideis, hyalinis, $8 \approx 2$.

Hab. in cortice *Betulæ nigræ*, Florence Carolina inf. Amer. bor. (RAVENEL).

18. **Eutypella stellulata** (Fr.) Sacc. Syll. I, p. 149. — Var. **Ravenelii**, 1917 Rehm Ascomyc. fasc. XV, pag. 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 $9 \approx 3$. Ad ramos *Liquidambaris* in Hungaria.

19. **Eutypella Halseyana** (Schw.) Berl. et Vogl. Add. Syll. pag. 31, *Sphæria Halseyana* 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.

20. **Eutypella goniostoma** (Schw.) Berl. et Vogl. Add. Syll. pag. 31, *Sphæria goniostoma* Schw. Syn. Amer. bor. n. 1373, et Sacc. Syll. II, p. 382, *Valsa goniostoma* Cooke in Grevillea XIII, p. 39. — Sporidia allantoidea, hyalina, $7 \approx 2$.

21. **Eutypella constellata** (B. et C.) Berl. et Vogl. Add. Syll. p. 31, *Val-* 1918 *sa constellata* B. et C. in Grevillea XIV, p. 46. — Pustulis orbicularibus in lineas v. 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.

1. **Valsella Papyrifera** (Schw.) Berl. et Vogl. Add. Syll. p. 31, *Val-* *sa papyrifera* Cooke in Grevillea XIII, p. 39, *Sphæria Papy-*

riferæ Schw. Syn. Amer. bor. n. 1375, et Sacc. Syll. II, p. 381. — Sporidia numerosa, allantoidea, minuta.

2. **Valsella minima** Niessl — Sacc. Syll. Fung. I, p. 159. — Var. **pa-** 1919
dina Sacc. F. Sib. p. 12, f. 7: acervulis subgloboso-conoideis, strato nigro stromatico obductis, 2-4 perithecia $\frac{1}{6}$ mm. lat. continentibus, disco perexiguo albo $\frac{1}{4}$ mm. lat.; ascis clavatis 50-60 \approx 6-7; sporidiis 2-3-stichis, allantoideis, biguttatis, 7 \approx 2, hyalinis, in quoqueasco 15-25.

Hab. in ramis emortuis Pruni Padi pr. Minussinsck Sibiriaë.

3. **Valsella nemoralis** Allesch. Suedbay. Pilz. p. 206. — Stromatibus 1920
sparsis, parvis, plerumque lenticularibus, nigris, cortice interiore immersis, peridermium non elevantibus; disco albo, ostiolis paucis, peridermio lacerato cincto; ascis anguste clavatis, sæpe subcylindraceis, polysporis, 45-55 \approx 8-10; sporidiis cylindræis, vix incurvis, 6 \approx 1-1,5, hyalinis

Hab. in ramulis siccis Carpini Betuli pr. München Bavarie.

4. **Valsella Rhamni** Allesch. Suedbay. Pilze p. 206. — Stromatibus 1921
sparsis, minutissimis, peridermium sublevantibus, subhemisphæricis; ostiolis 1-4, raro 5, conferte gregariis, nigris, micantibus, disco minutissimo, albo; ascis oblongis v. subclavatis, sessilibus, polysporis, 45-50 \approx 10; sporidiis confertis, cylindræis, incurvis, hyalinis, 6-8 \approx 1,5.

Hab. in ramulis siccis Rhamni Frangulæ prope München Bavarie.

5. **Valsella quercicola** Allesch. Suedbay. Pilze p. 206. — Stromati- 1922
bus gregariis, 2-3-confluentibus v. sparsis, e basi elliptica v. subcirculari pulvinatis, cortice interiore immersis, intus albis, ostiorum disco peridermium perforante et ejus laciniis cincto, plerumque ellipsoideo, albo, ostiolis 5-10, nigris, pertuso, donatis; ascis subcylindræis, sessilibus, polysporis, 50 \approx 8; sporidiis confertis, cylindræis, incurvis, hyalinis, 8 \approx 1,5.

Hab. in ramulis siccis Quercus pedunculatæ pr. München Bavarie.

6. **Valsella Cratægi** Allesch. Suedbay. Pilze p. 205. — Stromatibus 1923
sparsis e basi orbiculari conicis, prominulis, peridermio, disco excepto, tectis, intus albidis; peritheciis 3-6 in quoque stromate, rotundis v. subangulosis, ostiolis in disco minuto, subrotundo, prominulo coalitis, nigris, pertusis, stromatis substantia cinctis; ascis elongato-oblongis, subcylindræis, circ. 45-50 \approx 6-7, polysporis; sporidiis gregariis, cylindræis, subincurvis, hyalinis, 1-cellularibus, 4-5 \approx 1.

Hab. in ramulis *Cratægi Oxyacanthæ* prope München Bavariæ.

7. **Valsella Salicis** Fuck. — Syll. I, p. 159. — Var. **Populi** Sacc. in 1924
Mout. Not. Ascom. p. 1. — Stromatibus corticicolis, depresso-conicis, basi orbicularibus, 1 mm. lat.; peritheciis circ. 10 in quoque stromate, globulosis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., ostiolis supra discum exiguum, fuscescentem non protuberantibus; ascis teretibus deorsum paullo contractis, 48-60 \approx 7; sporidiis hyalinis, 5-7 \approx 1,5.

Hab. ad ramulos putres *Populi* nigræ, Beaufays Belgii.

EUTYPA Tul. — Sacc. Syll. I, p. 162.

1. **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.
2. **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.
3. **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.
4. **Eutypa heteracantha** Sacc. — *Calosphæria hylodes* (E. et E.) Berl. et Vogl. supra p. 447, *Valsa hylodes* Ell. et Ev. Journ. of Myc. II, p. 40, ex autopsia speciminum a cl. Ellis missorum, huc spectat.
5. **Eutypa oppansa** (Fr.) Cooke in Grevillea XIII, p. 38, *Sphæria oppansa* Fr. S. M. II, 374 et Sacc. Syll. II, pag. 376. — Sporidia allantoidea, circiter 10 μ . longa.
6. **Eutypa Mori-rubræ** (Schw.) Cooke in Grev. XIII, p. 38, *Sphæria Mori-rubræ* Schw. Syn. Amer. bor. n. 1302 et Sacc. Syll. II, p. 375. — Sporidia cylindræa, vix curvula, pallide fusca, 8 μ . longa.
7. **Eutypa ludens** Speg. Fung. Guar. Pug. I, n. 180. — Stromate plus 1925 minusve late effuso e cortice v. ligno nigrefacto efformato; peritheciis plus minusve dense constipatis, laxè v. dense bullatim erumpentibus, globulosis, submembranaceis, contextu subindistincte parenchymatico, olivascente, ostiolo breviusculo, atro, carbonaceo, obscure cruciato-rugoso, stromatis superficiem vix attingente donatis; ascis clavatis, parte sporifera subfusoidea, 30-40 \approx 4-5, apice truncato-rotundatis, deorsum attenuatis et in stipitem gracilem 30-50 \approx 1-2, hyalinum productis, aparaphysatis, octosporis; sporidiis allantoideis, 7-8 \approx 1,5 utrinque 1-guttulatis, dilute chlorinis,

Hab. ad ramos ac truncos emortuos putrescentes pr. Guarapî
Brasiliæ.

8. **Eutypa elevans** (Schw.) Cooke in Greyillea XIII, p. 38, *Sphæria elevans* Schw. Syn. Amer. bor. n. 1303 et Sacc. Syll. II, p. 386. — Sporidia allantoidea, 8 μ . longa.
9. **Eutypa polyscia** (Berk. et Broom.) Berl. et Vogl. *Sphæria poly-* 1926
scia Berk. et Broome IV, List. Fung. Brisb. Queensland. n. 266, tab. XV, fig. 19-21. — Stromate aterrime, 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.

10. **Eutypa lophiostomoides** Speg. F. Puigg. n. 243. — Stromate late 1927
ambiente; acervulis pustulato-elevatis, 1-2 mm. diam., ostiolis sæpius lophiostomoides, brevissime fasciculato-erumpentibus, coronatis; peritheciis 2-7-aggregatis, globosis, 120-150 μ . diam., atris, glabris, membranaceo-coriacellis, contextu indistincto donatis; ascis clavulatis, apice acutatis, postice longe pedicellatis, paraphysatis, 8-sporis, p. sp. 35 \approx 6; sporidiis allantoideis, parum curvulis, chlorinis, 8-10 \approx 2-2,5.

Hab. ad corticem ramorum putrescentium in silvis pr. Apiahy Brasiliæ. — Species pulchella habitu *Cryptosphæricæ populinae* (Pers.) Sacc., simillima omniumque tamen partium fabrica *E. ludibundæ* peraffinis; an tantum ejusdem varietas?

11. **Eutypa aurantiicola** Speg. F. Guar. II, n. 65. — Stromate late 1928
ambiente, per lignum corticatum vel decorticatum nigrefactum profunde ac tortuose excurrente, linea nigra plus minusve manifesta limitato; peritheciis dense aggregatis, hinc inde tubercula e conoideo mammoidea efficientibus, immersis, globosis, 200-250 μ . d., atris, coriacellis, contextu indistincto olivaceo, nucleo chlorinulo mucoso faretis, ostiolis rectis vel flexuosulis subcylindræis plus minusve longe exsertis, 1-3 mm. long., 0,3-0,4 mm. cr., atris, carbonaceis, apice levibus obtusiusculis, subfasciculatim tubercula peritheciigera coronantibus; ascis clavulatis, 14-16 \approx 4-5, primo pedicello fluxili suffultis, mox liberis, 8-sporis, paraphysatis; sporidiis distichis, cylindræis, utrinque obtusiusculis ac minute 1-guttulatis, valide arcuato-botuliformibus, 4-5 \approx 1, hyalinis.

Hab. ad radices crassiores emortuas Citri Aurantii in cultis pr. Posta-cué et Yaguaron Brasiliæ. — Species habitu præci-

pue *Eut. comosæ* Speg. peraffinis, a qua tamen sporidiorum magnitudine ac eorum colore longe recedens.

12. **Eutypa patagonica** Speg. F. Pat. n. 115. — Stromate effuso, inæquali, vix tumidulo, sub peridermio evoluto eoque arcte adnato, nigricante v. fuscescente, per lignum obsolete excurrente; peritheciis hinc inde 6-20 dense constipatis, majusculis, 0,5 mm. diam., globosis v. e mutua pressione angulosis, atris, levibus, in colla longitudine varia productis, collis hinc inde fasciculatis ac epidermidem tumefactam perforantibus, non vel vix exsertis, atris, ostiolis compressiusculis subconnatis non v. vix rugosis ac sulcatis donatis; ascis clavatis, longissime pedicellatis, p. sp. 40 = 6-7, ped. 50-70 = 2, apice attenuato-truncatis, crassissime tunicatis perforatisque, octosporis, paraphysibus filiformibus guttulatis, simplicibus, parvis obvallatis; sporidiis cylindraceo-allantoideis 10-13 = 2-2,5, utrinque obtuse rotundatis ac 1-guttulatis, continuis, chlorinis.

Hab. ad ramos emortuos putrescentes Chilitrichi ameloidis vulgatissima in Rio Gallego, Gregory bay, Punta Arenas Patagoniæ. — Species notis per plurimis *Eut. ludibundæ* Sacc. accedens et facile ut ejusdem forma tantum consideranda.

13. **Eutypa peraffinis** Speg. F. Fueg. n. 153. — Stromatibus per ramos corticatos late ambientibus, nigris, lignum plus minusve atro-inquinantibus; peritheciis stromate immersis, dense aggregatis, acervulos difformes, pulvinatulos, sæpius hinc inde seriatim erumpentes efformantibus, sphaericis, 300-350 μ . diam., glabris, atris, coriaceis, in ostiolo brevissimo, crasso, rugoso, irregulari, vix exserto productis; ascis clavatis, apice attenuato-cuneatis ac truncatis crassissimeque tunicatis, 1-foveolatis, postice attenuatis ac in pedicellum prælongum productis, p. sp. 40-45 = 6, ped. 40-80 = 2, octosporis, aparaphysatis; sporidiis mono- vel distichis, allantoideis, 10-15 = 2-3, utrinque obtuse rotundatis ac 1-guttulatis, chlorinis.

Hab. in ramis emortuis putrescentibus Berberidis ilicifoliæ in Pactolus bay, Staten island Amer. austr.

14. **Eutypa echinata** Ell. et Ev. Journ. Myc. 1887, p. 43. — Stromatibus continuis v. interruptis, circ. 1 mm. ligno immersis, linea nigra limitatis; peritheciis globosis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., pariete crasso, coriaceo, maturitate intus nigro-micante, donatis, in strato inferiore corticis interioris immersis et in lignum plus minus penetrantibus v. omnino sepultis, ostiolis cylindraceis, rugosis, circ. 1 mm. long., apice rotundato, levi, nigro pertusis; ascis clavatis, parte sporif. 12-15 = 4, basi filiformi æquilongis, aparaphysatis;

sporidiis allantoideis, subhyalinis, 2-guttatis, incurvis, octonis, circ. $4 \approx 0,7-1$.

Hab. in ramis emortuis Fraxini, Plaquemines Co. La. Amer. bor. — Adsunt cæspituli hypharum 25-30 μ . alt., pallide brunnearum, superficie corticis interioris inserti.

15. **Eutypa atomospora** (Cooke) Sacc. *Valsa atomospora* Cooke Grev. 1932
 XI, p. 109, Cfr. Sylloge I, p. 178. — Immersa; peritheciis (4-6) subglobosis, atris, in ligno immersis, ostioliis elongatis, convergentibus, erumpentibus; ascis minutis, $15 \approx 5$, clavato-lanceolatis; sporidiis allantoideis, minutissimis, 2,5 μ . longis, hyalinis.

Hab. in ramis Corni, Seaboard of S. Carolina Amer. borealis (RAVENEL).

16. **Eutypa salicicola** Allesch. Suedbay. Pilze p. 199, t. II, f. 6. — 1933
 Stromate plus minus expanso, subelevato, pallido, linea nigra cincto; peritheciis gregariis, cortice immersis, ligno non insidentibus, ostioliis 4-6-sulcatis, botryoideo-confertis, peridermium perforantibus, prominentibus; ascis clavatis, longissime stipitatis, 8-sporis, p. sp. $100 \approx 10$; sporidiis distichis, cylindraceutis, subincurvis v. suberectis, brunneis, $20 \approx 4-5$.

Hab. in ramis Salicis capreæ siccis epidermidem obscurius colorans prope Reit Baviariæ (SCHNABL). — *Eut. salicicolæ* valde affinis.

17. **Eutypa Ligustri** Rich. Cat. Champ. Marn. n. 1116. — Stromati- 1934
 bus irregulariter disciformibus, cortice in crustam nigricatam mutato, obtectis, intus nigricantibus; peritheciis nucleo albo, ostioliis nigris epidermidem perforantibus; ascis longe pedicellatis, supra fusioideo-attenuatis.

Hab. in ramis vetustis Ligustri vulgaris, St. Amand Marne Galliae. — *E. flavo-virescenti* affinis sed stromate nigrescente diversa.

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

1. **Endoxyla Populi** Romell in Hedwigia 1885, p. 263. — Peritheciis 1935
 sparsis vel gregariis, ligno immutato vel dealbato omnino immersis; ostioliis emergentibus, levibus, minutis, atris, convexis, (non pezizoideo-collapsis) pertusis; ascis cylindraceutis, stipitatis, 8-sporis, paraphysatis, $100-140 \approx 5-10$; sporidiis submonostichis, (interdum distichis) allantoideis, curvulis, olivaceo-fuscis, $13-18 \approx 3-4-1/2$.

Hab. in ligno decorticato ramulorum emortuorum Populi Tremulæ prope Upsala in Suecia (L. ROMELL). — Ligni super-

ficies primo levis et subimmutata, nisi circa ostiola indeterminate nigrefacta, deinde in fungo perfecto v. obsoleto, supra perithecia pustulato-elevata et nigrefacta.

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

1. **Cryptosphæria Schulzeri** Sacc. in Rev. Myc. 1884, Schulz. III. 1936
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 \simeq 1,5-2, biguttulatis, hyalinis.

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

2. **Cryptosphæria Crepiniana** Sacc. et Roum. in Rev. Myc. 1873, 1937
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 exstantibus, punctiformibus, levibus; ascis fusoideo-clavulatis, longe stipitatis, p. sp. 30 \simeq 6, octosporis; sporidiis allantoideis, 6-8 \simeq 1, 4-1,5, hyalinis.

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

3. **Cryptosphæria Bobolensis** De Not. MS. cum icone. — Peritheciis 1938
sparsis raro geminatis, insculptis, in cubilium superficie nigrefacta pustuliformi-protuberantibus, lenticulari-rotundatis, tenuibus, vertice in ostiolum minutissimum punctiforme emergens productis, demum osculo latiusculo dehiscentibus; ascis copiosissimis, exiguis, nisi ex sporidiis octonarie cohærentibus perspicuis; paraphysibus confusis; sporidiis perexiguis teretiusculis, curvulis hyalinis, spermatioideis.

Hab. in ramis Sambuci, Boboli, Firenze (CALDESI). — Fructificatione *Eutypæ heteracanthæ* accedit.

CRYPTOSPHERELLA Sacc. — Syll. I, p. 186.

1. **Cryptosphærella parca** Sacc. F. Rom. n. 21, fig. 2. — Peritheciis 1939
gregariis v. sparsis, peridermio immutato-immersis, nigris, globosis, fere 0,5 mm. diam., ostiolo vix emergente, minuto, obtusulo, pertuso, non vel vix rimoso; ascis breve crasse clavatis, apice rotundatis, longe dein breve stipitatis, 80-100 \simeq 12-15, p. sporif. 36-40

$\mu.$ long., polysporis; sporidiis allantoides, curvis, 12-14 \approx 3-4, initio flavidis, dein luteo-olivaceis, coacervatis fulvo-olivaceis.

Hab. in ramis emortuis Spirææ Lindleyanæ in Horto botanico, Roma Italiæ.

2. **Cryptosphærella Macrozamiæ** (B. et Br.) Sacc. *Sphæria* B. et Br. 1940
Brisb. III, p. 223, t. 29, f. 31-35. — Peritheciis subepidermicis, primo sparsis, dein confertis, nigris, subiculo e filamentis atro-brunneis, ramosis formato, cinctis, tandem collapsis, cupuliformibus; ostiolis brevibus, erumpentibus; ascis polysporis, crasse clavatis; sporidiis conglobatis, fusoides, curvulis circ. 7,5 $\mu.$ long.

Hab. in fructu Macrozamiæ sp., Daintree River Brisbane Australiæ (F. M. BAILEY).

CRYPTOVALSA Ces. et De Not. — Syll. I, p. 187.

1. **Cryptovalsa Clematidis** Br. et Har. Rev. Myc. 1891, pag. 15. — 1941
Peritheciis numerosis, plus minus gregariis, nigris, globulosis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., cortice omnino immersis, in collum plus minus longum attenuatis, ostiolo punctiformi, obtuso, epidermide perforante, subprominulo donatis; ascis cylindræo-clavatis, breviter stipitatis, polysporis, p. sp. 64-80 \approx 8-9; sporidiis conglomeratis, cylindraceis, utrinque subattenuatis, leniter incurvis, obtusiusculis, dilute fuliginis, 7-9 \approx 0,5-3.

Hab. in caule emortuo Clematidis sp., Loudun, Vienne Galliæ.

2. **Cryptovalsa eutypæformis** Sacc. Mich. II, p. 569. — 1942
gregariis, ligno superficie denigrato immersis, globulosis, $\frac{1}{2}$ mm. diam., atris; ostiolo vix emergente, depresso conoideo, levi, denique pertuso; ascis subfusoides, deorsum in stipitem 50 \approx 2, sensim attenuatis, sursum acutato-truncatis, p. sp. 80 \approx 10, polysporis; sporidiis inordinate stipitatis, allantoides, curvulis, 5-7 \approx 1,5 olivascensibus.

Hab. in ligno decorticato Aceris, Newfield N. J. Amer. bor. (ELLIS). — *Cryptovalsa Citri* et *Cr. elevata* analogæ, sed sporidiis multo minoribus statim dignoscitur. Forte forma microspora *Cr. elevata* a Berkeleyo indicata huc pertinet.

3. **Cryptovalsa Terebinthi** (Ces.) Br. et Har. Rev. Myc. 1891, p. 15, 1943
Sphæria Ces. MS. — Peritheciis numerosis, gregariis, nigris, globosis, $\frac{3}{4}$ -1 mm. diam., ligno omnino immersis, in collum plus minus longum attenuatis, ostiolo punctiformi, obtuso, epidermidem perforante, subprominulo, donatis; ascis cylindræo-clavatis, breviter stipitatis, polysporis, p. sp. 40-60 \approx 7-9; sporidiis conglomeratis,

oblongis, utrinque subattenuatis, inæquilateralibus, obtusiusculis, dilute fuligineis, 8-10 \approx 3-4.

Hab. in ramis Pistaciæ Terebinthi in Italia boreali.

4. **Cryptovalsa sparsa** Ell. et Ev. Proc. Phil. 1890, p. 224. — Pe. 1944
 peritheciis plerumque 1-4 in quoque stromate, $\frac{1}{3}$ mm. diam., linea parum conspicua in lignum non penetrante circumscriptis, pariete crasso, intus nigro et micante, supra in collum breve, ostiolo plus minus distincte 4-sulcato, in disco parvo, pustuliformi, erumpente, vix prominulo donatum attenuatis; ascis p. spor. 70-75 \approx 8-10, polysporis, basi gracili, paraphysibus sociatis; sporidiis allantoideis, flavidis, modice incurvis, utrinque 1-guttatis, 6-7 \approx 1,5.

Hab. in ramulis querneis, St. Martinsville, La. Amer. bor.

5. **Cryptovalsa Rubi** Pass. et Beltr. F. Sicul. n. 15. — Stromate tenui effuso vel limitato; peritheciis discretis vel geminatis aut ternis, vel seriatim ordinatis ligno adnatis, epidermidem pustulatim subelevantibus, dein collo cylindrico, crasso, ruguloso, apice pertuso erumpentibus, nucleo albo farctis; ascis copiosissimis clavatis, in stipitem tenuissimum, partem sporiferam antice acutam, 50 \approx 7 $\frac{1}{2}$, longe superantem protractis, polysporis; sporidiis cylindræis, curvulis vel suberectis, continuis, dilute lutescentibus, 7 $\frac{1}{2}$ -2 $\frac{1}{2}$. 1945

Hab. in sarmentis aridis Rubi, Monostalla Sicilia. — Peritheciis ut plurimum discretis, albo-farctis, collo longiore et ascorum dimensionibus a *Cryptovalsa ampelina* Fuck. et *C. protracta* De Not. potissimum differre videtur.

DIATRYPE Fr. — Sacc. Syll. I, p. 191.

1. **Diatrype roseola** Winter Fung. Missouri. in Journ. of Myc. 1885, p. 121. — Stromatibus sparsis v. subgregariis, disciformibus, orbicularibus vel parum irregularibus, non raro confluentibus, planis vel parum convexis, erumpentibus, lateribus a peridermii fissi laciniis erectis cinctis, 1,5-2,5 mm. latis, superne sordide pallidissimeque roseis, demum nigricantibus, rimulosis, intus albidis; peritheciis in singulo stromate 12-30, dense stipatis, ellipticis, ostiolis sublongis, 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, cylindræis, parum curvatis, subfuscis, 12-14 \approx 2,5-3. 1946

Hab. ad ramos aridos Quercus tinctoriæ, Missouri Amer. bor. — Ascis sporidiisque majoribus a *Diatrype disciformi*, ostiolis

minoribus, non v. vix prominulis, sporidiis crassioribus a *D. asterostoma* valde diversa.

2. **Diatrype verrucoides** Peck 32 Rep. pag. 50. — Pustulis parvis, 1947
 linea nigra circumscriptis, epidermide dein longitudinaliter v. stellatim fissa initio tectis; stromatibus extus nigrescentibus, intus albidis, subinde tomento cinereo supra vestitis; peritheciis 3-8 in quaque pustula, ostiolis nigris, depressis, stellato-sulcatis; ascis clavatis; sporidiis simplicibus, cylindræis, rectis vel subcurvulis, $20 \approx 4$.

Hab. ad ramulos *Betulæ* emortuos, Stamford Amer. bor.

3. **Diatrype Macounii** Ell. et Ev. Proc. Phil. 1890, p. 224. — Stro- 1948
 mate discoideo, griseo, 3-4 mm. diam., circ. 1 mm. cr., suborbiculari v. subellipsoideo, superficie corticis interioris insidente, epidermide fissa involuto, linea nigro ligno non penetrante circumscripto; peritheciis 30-50 in quoque stromate, 1-stratosis, ovoideoglobosis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., supra in collum breve, ostiolo parvo, indistincte radiato-fisso, nigro, in stromate foveolam vix efformante, donatum attenuatis; ascis 50-60 μ . long., p. sp. 20-30 \approx 3, basi filiformi; sporidiis supra distichis, allantoideis, flavidis, subincurvis, $4-6 \approx \frac{3}{4}-1$.

Hab. in ramos *Aceris rubri*?, Agassiz, British Columbia Amer. bor.

4. **Diatrype Hochelagæ** Ell. et Ev. Proc. Phil. 1890, p. 224. — Stro- 1949
 mate orbiculari v. elongato, 2-3 mm. long., 1-2 mm. lat., sæpe plus minus conflente, pulvinate- verrucoso, utrinque truncato vel obliquo, linea nigra, in lignum non profunde penetrante circumscripto, extus fusco-nigro, intus sordide albo; peritheciis in stromate confertis, subglobosis, circ. 0,5 mm. diam., pariete crasso, nigro, coriaceo, ostiolis conico-hemisphæricis, profunde 4-5-sulcato-fissis; ascis p. sp. 40-45 \approx 7-8; paraphysibus validis; sporidiis allantoideis, modice incurvis, flavidis, $8-12 \approx 2,5$.

Hab. in ligno decorticato *Ulm*i, London Canada Amer. bor. — Habitus *D. quercinæ* var. *lignicolæ*.

5. **Diatrype acervata** E. et E. Journ. Myc. 1888, p. 75 (errore 63). 1950
 — Stromatibus 0,5 mm. diam., tabacinis dein nigris, mollibus, solitariis v. conferte gregariis, centro maculæ subellipticæ, 0,5-4 cm. long., sordide albæ, margine definito atro-rubro-brunnæ, insidentibus; peritheciis subcircinatis, 5-10 in quoque stromate, intus albis, subglobosis, 75-100 μ . diam., ostiolo brevi, subcylindræo, in stromatis superficie vix perspicuo donatis; ascis oblongis, 35-40 \approx

7-8, aparaphysatis; sporidiis distichis, oblongo-cylindræis, subincurvis, hyalinis, obtusis, 1-septatis, medio subconstrictis, 12-18 \approx 3.

Hab. ad folia *Yuccæ filamentosæ* emortua, Newfield, N. Jersey Amer. bor. — An sporidia genuine septata?

6. **Diatrype Puiggarii** Speg. F. Puigg. n. 246. — Superficialis, hemisphærica, minuta, 1,5 mm. lat., 0,5-0,8 mm. cr., ostiolis exasperata, extus atra, intus virescens; peritheciis paucis, globosis, 200-220 μ . diam.; ascis clavatis, longissime stipitatis, 8-sporis, p. sp. 15-25 \approx 2,5-4,5, aparaphysatis; sporidiis botuliformibus, modice curvulis, chlorinulis, 6 \approx 1.

Hab. ad ramulos dejectos putrescentes in dumetis uliginosis pr. Apiahy Brasiliæ. — Species *D. laurincæ* Rhem satis accedens.

7. **Diatrype radiata** Ellis Amer. Nat. 1883, Febr. pag. 196. — Peritheciis membranaceis, 8-15, stromate tuberculiformi pallido immersis, erumpentibusque, peridermio laciniato cinctis lineaque nigra (lignum non penetrante) circumdatis; ostiolis obtusis, vix prominentibus; ascis clavatis, 75-80 \approx 6; sporidiis cylindræis curvulis, flavidis, continuis, 9-12 \approx 2.

Hab. in ramis emortuis Ulmi, Decorah, Jowa America boreali (E. W. HOLWAY).

8. **Diatrype elliptica** Cooke et Mass. Grevill. XIX, p. 48. — Stromatibus ellipticis, 7 \approx 2½-3, atris, opacis, rugulosis, ostiolis inconspicuis, matrici basi insculptis, linea nigra in matrice profunde circumscriptis, contextu pallidis; peritheciis magnis, paucis; ascis cylindræis, stipitatis, 8-sporis; sporidiis linearibus, rectis v. curvulis, utrinque rotundatis, uniseriatis, 12 \approx 5, hyalinis.

Hab. ad ramos decorticatos, Hawkes' Bay Novæ Zelandiæ (F. KIRK).

9. **Diatrype Delacourei** H. F. Spher. Vaubl. II, p. 33. — Stromate pulvinato, lanceolato, cortice transversim rupto cincto, atro-fusco, ostiolis prominulis, crassis, conoideis vel 3-4-sulcato-lamellosis, exasperato, 2-5 mm. longo; peritheciis numerosis, monostichis, ovato-cylindræis; ascis clavatis, longissime stipitatis, 8-sporis 100-120 μ . longis, part. sporif. 40 \approx 5-8; sporidiis subdistichis, hyalinis, cylindricis, curvulis, 12-14 \approx 3.

Hab. ad ramos putrescentes *Rhamni infectoriæ*, Vacluse Galliæ.

10. **Diatrype sphærospora** Ell. et Ev. Journ. Myc. 1887, p. 42. — Stromate e cortice vix mutato formato, erumpente, parum prominulo, epidermide rupta cincto, minuto, ⅓-1 mm. diam.; peritheciis

in strato singulo 3-12, nigris, membranaceis, minutis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam., ostiolo levi, nigro, obtuse conico, prominulo; ascis cylindraceis, p. sp. 30-35 \approx 3, basi filiformi circ. 20 μ . long.; paraphysibus non visis; sporidiis 1-stichis, pallide flavidis, octonis, globosis 3 μ . diam.

Hab. ad ramulos emortuos Magnoliæ glaucæ, Newfield, New Jersey Amer. bor. — Habitus *D. minimæ* sed sporidiis diversa. «Si hæc vere globosa, species vix hujus generis».

11. **Diatrype Azedarachæ** Cooke in Grev. XI, p. 108. — Erumpens; 1956
stromate atro, convexo, suborbiculari, intus concolore; peritheciis compressis; ascis clavatis; sporidiis allantoideis, pallido-fuscis, 12 \approx 3.

Hab. in ramis Meliæ, Seaboard of S. Carolina Amer. bor. (RAVENEL).

12. **Diatrype megastoma** Ell. et Ev. in Journ. of Myc. 1885, p. 141. 1957
— 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; ostiolis latis, prominulis, 4-5-stellato-sulcatis; ascis gracilibus, clavatis, 75-80 \approx 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 \approx 2.

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

13. **Diatrype subaffixa** (Schw.) Cooke in Grevillea XII, p. 5, *Sphæria subaffixa* Schw. Syn. Amer. bor. n. 1226, *Nummularia subaffixa* Sacc. Syll. I, p. 401. — Sporidia allantoidea, hyalina, 8 μ . longa. — Peraffinis *D. Stigmati*.

14. **Diatrype Rhois** (Schw.) Cooke in Grevillea XIII, p. 37, *Sphæria Rhois* Schw. Car. n. 62 et Sacc. Syll. II, p. 369. — Sporidia allantoidea, 7,5-8 μ . longa.

15. **Diatrype Ceanothi** Cooke et Harkness in Grevillea XIII, p. 17. 1958
— Acervulis verrucæformibus, innato-erumpentibus, atris, rotundatis, peridermio arcte cinctis, intus concoloribus; peritheciis compressis difformibusque, ostiolis brevibus, stellato-sulcatis; ascis clavatis, octosporis; sporidiis cylindraceis, curvulis, utrinque rotundatis, luteolis, hyalinis, 12-14 \approx 2.

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

16. **Diatrype Vitis** Ell. et Ev. Proc. Phil. 1890, p. 225. — Stroma- 1959
tibus, tuberculiformi-hemisphæricis, linea nigra limitatis, circ. 1
mm. diam., erumpenti-superficialibus, intus nigris; peritheciis 1-4
in quovis stromate, globosis, 0,5 mm. diam., intus nigro-micanti-
bus, supra in collum breve contractis, ostioliis vix prominulis,
4-sulcatis; ascis polysporis, 75-80 \approx 10-12, clavato-cylindræcis,
basi contracto-stipitatis, obscure paraphysatis; sporidiis allantoi-
deis, flavido-hyalinis, 6-7 \approx 1,5, parum incurvatis.

Hab. ad ramos emortuos *Vitis* bipinnatæ, Bayon Chene, La.
Amer. bor. (Rev. A. B. LANGLOIS).

17. **Diatrype minima** Ell. et Ev. in Journ. of Myc. 1885, p. 91. — 1960
Stromatibus corticalibus, ex cortice parum mutato efformatis, 1-2
mm. diam., linea nigra in lignum penetrante circumscriptis; peri-
theciis 8-12 in quoque stromate, globosis, 1,6-1,5 mm. diam., mem-
branaceis, ostioliis nigris, nitentibus, demum distincte perforatis;
ascis cylindræcis, 70-80 \approx 2 $\frac{1}{3}$ -3, obscure (vel non?) paraphysa-
tis; sporidiis monostichis, oblongo-ellipticis, 2-nucleatis, luteolis
vel fere hyalinis, 5-7 \approx 2.

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

18. **Diatrype sordida** (Pers.) Cooke in Grevillea XIII, p. 38, *Sphæ-*
ria sordida Pers. Syn. 25 et Sacc. Syll. II, p. 373. — Sporidia
allantoidea, 12 μ . longa.

19. **Diatrype annulans** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphæ-*
ria annulans Schw. Syn. Amer. bor. n. 1270 et Sacc. Syll. II, p. 375.
— Sporidia allantoidea, 8 μ . longa.

20. **Diatrype albo-pruinosa** (Schw.) Cooke in Grevillea XIII, p. 37,
Sphæria albo-pruinosa Schw. Syn. Amer. bor. n. 1238 et Sacc.
Syll. II, p. 371. — Sporidia allantoidea, pallide fusca, 20-22 \approx 4.

- 21 **Diatrype Berberidis** Cooke in Grevillea XIV, p. 14. — Stroma- 1961
tibus verrucæformibus, innato-erumpentibus, oblongis vel confluen-
tibus, scabris, atris, ligno affixis; peritheciis minimis, numerosis;
ascis clavato-stipitatis, octosporis; sporidiis allantoideis in parte
sporifera stipatis, hyalinis, 14 \approx 2.

Hab. in ramis *Berberidis* vulgaris, prope Bristol Britan-
niæ (C. BUCKNALL).

22. **Diatrype smilacicola** (Schw.) Berk. North Amer. fungi p. 165,
Confr. Cooke in Grevilla 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.

23. **Diatrype friabilis** (Pers.) Cooke in Grevillea XIII, p. 38, *Sphæria friabilis* Persoon Syn. 24, Fr. S. M. II, p. 361 et Sacc. Syll. II, p. 373. — Sporidia allantoidea, 10 μ . longa.
24. **Diatrype variolosa** (Schw.) Cooke in Grevillea XIII, pag. 38, *Sphæria variolosa* Schw. Syn. Amer. bor. n. 1272 et Sacc. Syll. II, p. 374. — Sporidia allantoidea, 7-8 μ . longa.
25. **Diatrype sambucivora** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphæria sambucivora* Schw. Syn. Amer. bor. n. 1275 et Sacc. Syll. II, p. 374. — Sporidia allantoidea, 8 μ . longa.
26. **Diatrype concolor** (Schw.) Cooke in Grevillea XIII, p. 37, *Sphæria concolor* Schw. Syn. Amer. bor. n. 1254, et Sacc. Syll. II, p. 374. — Sporidia allantoidea, 7,5-8 μ . longa.
27. **Diatrype euphorea** (Fr.) Cooke in Grevillea XIII, p. 37, *Sphæria euphorea* Fr. S. M. II, p. 353 et Sacc. Syll. II, p. 368. — Sporidia allantoidea, 10 μ . longa.
28. **Diatrype virescens** (Schw.) Cooke in Grevillea XIII, p. 37, *Sphæria virescens* Schw. Syn. Amer. bor. n. 1239 et Sacc. Syll. II, p. 369. — Sporidia allantoidea, pallide fusca, 8 μ . longa.
29. **Diatrype collecta** (Schw.) Cooke in Grevillea XIII, p. 38, *Sphæria collecta* Schw. Syn. Amer. bor. n. 1271 et Sacc. Syll. II, p. 374. — Sporidia..... Adsunt tantum sporulæ minutæ.
30. **Diatrype Brassicæ** Cooke in Grevillea XIII, pag. 100. — Stro- 1962
mate expanso, atro, indeterminato, sæpe 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 obsolete vel elongatis et flexuosis, 1-2 mm. longis; ascis stipitatis, clavatis, 22 \simeq 6, in parte superiore, octosporis; sporidiis minutis, allantoideis, hyalinis, 6 \simeq 1,5.
Hab. in caule putri Brassicæ, Kew Britannicæ.
31. **Diatrype afflata** (Schw.) Cooke Grev. XI, pag. 128, *Hypoxyylon* Schw. — Syll. I, p. 391. — Affinis *D. Stigmati*, sporidiis hyalinis.

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

1. **Diatrypella Populi** E. et Hol. in Journ. of Myc. 1885, pag. 4. — 1963
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 fasciculatim v. singulatim epidermidem perforantibus; ascis longis clavatis, 100-115 \approx 15; sporidiis cylindræis, luteolis, curvis 10-12 \approx 1,5-2.

Hab. in ramis emortuis Populi in Amer. bor.

2. **Diatrypella hysteroïdes** Ell. et Ev. in Journ. of Myc 1886, p. 99. 1964

— Stromate erumpenti-tuberculiformi, prismatico, sæpe quadrisulcato et subcornuto, 1½-2 mm. diam., luteo, sæpe elongato, hysteroïiformi et ½-1 mm. diam., sursum rima longitudinali perithecia *Hysterii* simulante; peritheciis 2-6 in quoque stromate, ⅓-½ mm. diam., contextu subtili, atro, coriaceo, sursum in collum breve attenuatis, ostiolo stromatis superficiem perforante, minuto papilliformi, subinde conoideo terminatis; ascis clavato-cylindræis, basi attenuatis, pedicellatis, 100-115 \approx 10-12, p. sp. 75-80 μ . long.; sporidiis numerosis, allantoïdeis, binucleatis, 6-7 \approx 1,5, luteolis.

Hab. in ramis decorticatis Populi, Louisiana Amer. bor. (LANGLOIS).

3 **Diatrypella pustulata** E. et E. Journ. Myc. 1887, p. 116. — Stro- 1965

matibus tuberculiformi-pustulatis, gregariis, intus albis, interdum confluentibus, linea nigra circumscriptis, epidermide nigrificata non erumpenti conferta tectis; peritheciis 1 vel rarius 2-4 in quoque stromate, globosis, ½-¾ mm. diam., ostiolis brevibus, prominentibus, validis, cylindræis, apice circ. 4-stellato-fissis; ascis supra rotundatis, subtus in basim gracilem contractis; sporidiis allantoïdeis, flavido-hyalinis, 5-8 \approx 8.

Hab. in ramulis emortuis Loniceræ, Newfield, N. Jersey Amer. bor.

4. **Diatrypella Demetriana** Ell. et Ev. Proc. Phil. 1890, p. 225. — 1966

Stromate pulvinate, depresso-hemisphærico, orbiculari, ardosiaconigro, 1,5-2 mm. diam., in lignum penetrante, linea nigra circumscripto, intus albido, ostiolis vix prominentibus, distincte sed non profunde radiato-fissis; peritheciis magnitudine media, globosis v. angulosis; ascis gracili-clavatis, 75-80 μ . long. p. sp. 35 \approx 6; sporidiis confertis, coacervatis pallide-luteolis, singulis subhyalinis, minutis, allantoïdeis, leniter curvulis, circ. 4-5 \approx 1-1¼.

Hab. ad ramulos emortuos Salicis chlorophyllæ, Colorado Amer. bor. — *D. exiguæ* affinis, habitus *Diatrypes disciformis*.

5. **Diatrypella deusta** Ell. et Mart. Amer. Nat. oct. 1882, p. 809. — 1967

Peritheciis coriaceis, ampulliformibus, 3 mm. circ. diam., matrici immersis, absque stromate lineaque circumscribente, 6-12 in acer-

vulos elongatos aggregatis; ostioli obtusis, sub-4-sulcatis, epidermidem inflantibus, nigrificantibus findentibusque; ascis lanceolatis, 57-75 \approx 5½-7; sporidiis cylindræis, curvulis, 5½-7 \approx 1¼.

Hab. in petiolis *Sabal serrulatæ*, Green Cove Springs Amer. bor.

5. **Diatrypella Placenta** Rehm Beitr. in Hedw. 1882, p. 117. — Stro- 1968
matibus minutis, parum exstantibus, 1-2 mm. diam., plerumque orbicularibus, placentiformibus, planis vel vix convexulis, fuscis, intus albis, peridermii fissi laciniis 4 plerumque erectis triangularibusque nonnihil superantibus; peritheciis in singulo stromate 5-15, monostichis, minutis, confertis, ostioli minutissimis nigris vel exsertis; ostioli senilibus in foveolis irregularibus immersis; ascis subfusiformibus, longe pedicellatis, parte sporifera 45 \approx 9; sporidiis c. 32 in superiore ascis parte, hyalinis, cylindricis, obtusis, subcurvatis, 5-6 \approx 1,5; paraphysibus longis, 6 μ . crassis, articulatis.

Hab. ad ramum siccum *Alni viridis* prope Kùthai alpium Tirolensium, alt. 2000 metr. (Doct. REHM). — Proxima videtur *D. decoratæ* Nits., sed notis supra allatis diversa.

6. **Diatrypella Tocciana** De Not. — Syll. I, p. 202. — Var. **subeffusa** 1969
Ell. et Ev. Journ. Myc. 1888, p. 62. — Stromatibus pulvinatis, depresso-convexis, 0,5-1 cm. diam. v. confluentibus majoribus, intus sordide albis, epidermide fasciculis parvis ostiolorum subprominentium, stellato-fissorum pertusa, permanentemente tectis; peritheciis 50-100 in quoque stromate, globosis, latiusculis, usque ad 1 mm. diam., pariete crasso colloque brevi donatis; ascis clavato-cylindræis, 150 \approx 10-12, p. sp., 80-90 μ . long., polysporis; sporidiis coacervatis flavidis, singulis hyalinis, allantoideis, subincurvis, 2-guttulatis, 5-7 \approx 1-1¼.

Hab. in cortice *Alni vetustæ*, Massachusetts Amer. bor. (Rev. JOS. BLAKE). — A typo differt stromatibus subeffusis et subconfluentibus.

7. **Diatrypella decipiens** E. et E. Journ. Mycol. 1888, p. 80 (errore 68). 1970
— Stromate erumpente, atro dein nigro, orbiculari v. oblongo, 2-6 mm. diam., pulvinato v., dum majore, plano, intus albido, basi linea nigra circumscripto; peritheciis monostichis, oblongo-ovoideis, circ. ¾ mm. long., supra in collum breve abrupte contractis, ostioli 4-sulcatis, in stromatis foveolis subprominulis; ascis polysporis, p. sp. 50-70 \approx 6-7; sporidiis flavidis, allantoideis, modice incurvis, 3,5-4,5 raro 5 μ . long., vix 1 μ . cr.

Hab. in cortice *Umbellulariæ californicæ*, Coos Co.,

Oregon Amer. bor. (W. S. CARPENTER). — Habitus exterior omnino *D. bullatæ*.

8. **Diatrypella prominens** Howe Bull. Torr. Cl. V, p. 42. — Subro- 1971
tunda vel confluens, erumpens, ostiolis latiusculis, nigris; ascis clavatis; sporidiis copiosis, flavidis.

Hab. in cortice Platani in Amer. bor.

9. **Diatrypella ramularis** Ell. et Ev. Journ. Myc. 1887, p. 42. — Stro- 1972
mate tuberculiformi, 1-2 mm. diam., per rimas longitudinales erumpente, in lignum penetrante, linea nigra circumscripto, supra subtruncato, intus sordide albo, peritheciis 4-12 in quoque stromate, globosis, collo brevi et pariete crasso donatis, ostiolis leniter prominentibus, depressis, 4-5-stellato-fissis, demum late perforatis; ascis latis, clavatis, 90-110 \approx 12-15; sporidiis pluribus, allantoideis, flavidis, modice curvatis, 6-10 \approx 1,5.

Hab. in ramis emortuis *Loniceræ japonicæ*, Pointe à la Hache, Amer. bor. (LANGLOIS).

10. **Diatrypella herbacea** Ell. et Ev. Journ. Myc. 1887, pag. 42. — 1973
Stromate tuberculiformi, 1-2 mm. diam., intus albo, supra flavotincto sed extus nigro; peritheciis ovato-globosis, circ. $\frac{1}{3}$ mm. diam., supra in collum angustum, breve, subabrupte contractis, ostiolo lato, stromatis superficie expanso, obtuso, 4-sulcato præditis; ascis cum basi gracili 100-120 \approx 10-12; paraphysibus mox evanescentibus; sporidiis in dimidio asco superiore confertis, numerosis, pallide flavidis, cylindraceutis, incurvis, 7-8 \approx 1-1,5.

Hab. in caule herbaceo emortuo *Ambrosiæ trifidæ*? Louisiana Am. bor. (LANGLOIS).

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 cylindraceuto-elliptica, utrinque truncato-subrotundata, hyalina. — Genus pulchellum stromatis ac peritheciolorum habitu generi *Hypoxyton* et generi *Diatrype* accedens; sporidiis tamen ab utroque satis distinctum.

1. **Diatrypeopsis laccata** Speg. Fung. Pug. I, n. 186. — Stromati- 1974
bus ligno subinnatis, primo tectis, dein, ob corticem secedentem, nudis, irregulariter elliptico-elongatis, 5-10 mm. 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 pres-

sione angulosis, 250-300 μ . alt. 100-150 μ . diam., atris, coriacellis, ostiolo minuto, recto non v. vix stroma perforante donatis; ascis cylindraceutis, 70-75 \approx 4, apice obtusissime rotundatis, basi modice attenuato-stipitatis, octosporis aparaphysatis; sporidiis recte monostichis, cylindraceutis v. cylindraceuto-subellipticis, utrinque truncatis v. vix rotundatis, 6-7,5 \approx 3-4,5, grosse 2-guttulatis, hyalinis.

Hab. ad truncos emortuos putrescentes in silvis subvirgineis pr. Guarapì Brasilie. — Species prædistincta; an huc *Hypoxylon stygium* ducendum?

Sect. 2. Phæosporæ.

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

1. **Ceratostoma arcuatirostre** Speg. F. Fueg. n. 158. — Peritheciis 1975 sparsis vel laxe gregariis, superficialibus, semiimmersis, globosis, 250-300 μ . diam., atris, glabris, carbonaceis, opacis, ostiolo erecto vel decumbente, longissimo, tenuissimo, 750-1000 \approx 30-50, acuto, fragili, levissimo, arcuato ornatis; ascis mox diffluentibus, cylindraceutis; sporidiis globosis vel sublimoniformibus, magnitudine ludentibus, 10-15 \approx 6-10, sæpius 12 \approx 8, fuligineis, utrinque apiculo minutissimo, vix perspicuo, hyalino auctis.

Hab. in fragmentis ligneis putrescentibus pr. Ushuvaia Americæ australis.

2. **Ceratostoma subdenudatum** Peck 32 Rep. p. 52. — Peritheciis im- 1976 mersis v. superficialibus, subglobosis, 500-625 μ . lat., nigris, subinde pilis paucis, sparsis, rectis præditis, ostiolis cylindraceutis, rectis v. subcurvulis, obtusis, interdum obliquis, peritheci diametro æquilongis v. brevioribus; ascis cylindraceutis; sporidiis 1-stichis, continuis, oblongo-ellipsoideis, 1-guttatis, hyalinis, 12-14 \approx 5.

Hab. in ligno dejecto, Catskill Mountains Amer. bor.

3. **Ceratostoma Rosæ** Rich. Cat. Champ. Marn. n. 1133. — Ostiolis 1977 filiformibus; ascis rotundis, 4-sporis; sporidiis brunneis, ovoideis.

Hab. in ramis emortuis Rosæ spinosissimæ, St. Amand Marne Gallie.

4. **Ceratostoma juniperinum** Ell. et Ev. Proc. Phil. 1890, p. 226. — Pe- 1978 ritheciis gregariis, subuliformibus, nigris, 700-800 μ . alt., apice subincrassatis, subtus inflatis et circ. 150 μ . cr.; ascis e basi ovoideo-inflata oblongo-ellipsoideis, circ. 12 \approx 6, basi gracili, 12-15 μ . long., præditis; sporidiis conferto-distichis, ovoideo-globosis, brunneis, 4 \approx 3,5 vel paullo minoribus.

Hab. in ligno emortuo Juniperi virginianæ, Flatbush, Long Island Amer. bor. (Rev. J. L. ZABRISKIE).

5. **Ceratostoma conicum** Ell. et Ev. Proc. Phil. 1890, p. 226. — Pe- 1979
 ritheciis immersis v. superficialibus, gregariis, subovoideis, circ. 0,5 mm. diam., asperis, supra in ostiolum conicum, rugosum, e superficie ligti prominens, dein 1 mm. long., productis; ascis 75-80 \approx 8 p. sp.; paraphysibus iis multo longioribus, validis, acuminatis, cinctis; sporidiis 2-stichis, oblongo-fusoideis, flavido-hyalinis, circ. 5-guttatis, rectis, 18-20 \approx 3.

Hab. in caudicibus pineis, Newfield, N. Jersey Amer. bor.

6. **Ceratostoma parasiticum** Ell. et Ev. Proc. Phil. 1890, p. 226. — 1980
 Gregarium, membranaceum, subhemisphæricum, $\frac{1}{3}$ mm. diam., rufido-brunneum, dein atro-ardosiacum, supra in collum validum, 2-2,5 mm. long., subtus 150 μ . cr., apice pallidus, subfimbriatum, 75 μ . circ. cr. productum; ascis oblongo-ovoideis, p. sp. circ. 20-25 \approx 7-8; sporidiis confertis, acute ellipsoideis, hyalinis dein atris, 7-8 \approx 4,5-5.

Hab. in Fomite applanato vetusto, West Chester Pa. Americæ borealis.

7. **Ceratostoma subulatum** Ellis Amer. Nat. 1883, p. 318. — Perithe- 1981
 ciis subulatis, $\frac{1}{2}$ mm. altis, apice subfimbriato et paullum expanso; ascis ellipticis, 15 \approx 11; sporidiis subcuboideis, dilute fuliginis, 5-5,5 \approx 3,5.

Hab. in caule emortuo CEnotheræ biennis, N. J. Amer. bor. — *Cer. graphioidi* et *C. caulicolo* subaffine.

8. **Ceratostoma melanosporioides** Winter in Hedwigia 1886, p. 101, 1982
C. caulincolum forma *Echii* Winter. — Peritheciis immersis, plerumque 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 Saxoniae.

9. **Ceratostoma carpophilum** Ellis Torr. Bot. Cl. 1882, p. 73. — Pe- 1983
 ritheciis subglobosis, 750 μ . diam., rugosis; ostiolo capillari, diametrum peritheci triplo superante, adunco vel flexo; ascis exilibus, 50 μ . longis, filiformi-paraphysatis; sporidiis monostichis vel distichis, fusoideis, flavis, 4,5-6,5 μ . longis.

Hab. in fructibus Castaneæ, New Jersey Amer. bor. — Perithecia et ostiola hyphis erectis, sparsis, asperulis (propriis?) vestita.

10. **Ceratostoma caulincolum** Fuck. — Sacc. Syll. I, p. 317, Winter in Hedwigia 1886, p. 101. — Perithecia demum sæpe emersa, tenuissime membranacea, 180-210 μ . diam., rostro sæpe curvato prædita; sporidia conglobata, late ellipsoidea, utrinque truncata, longitudinaliter striata, 7-8 \simeq 5-6.
11. **Ceratostoma? cinctum** Pat. Bull. Soc. Myc. 1888, p. 107. — Peritheciis sparsis, nigris, superficialibus, circ. 1 mm. lat., globosis, apice longe acuminatis, basi pilis brunneis, gracilibus, ramosis, non septatis cinctis, contextu celluloso, carbonaceo; ascis?; sporidiis? 1984
Hab. in ligno putri, Caracas Venezuelæ.
12. **Ceratostoma? Penicillus** Quel. Champ. Jura p. 522 (nec Schmidt). 1985
 — Peritheciis globosis, minutis, nigro-nitidis, ostiolo recto, striato, griseo, filamentis penicillatis pallidis conidiophoris terminato; conidiis ellipticis, hyalinis, 4 μ . longis; sporidiis ochraceis, 12 μ . long. angustis.
Hab. sub epidermide Cichoriacearum in Vogesis et Jura.
13. **Ceratostoma? foliicolum** Fuck. in Die zweite deutsch. Nordpolarf. 1986
 p. 94, t. I, fig. 7. — Peritheciis *Gnomoniarum* habitu, sparsis, primo tectis, ostiolo longissimo, aterrimo exserto, demum subliberis, globosis, minutis, atris; ascis nondum visis; sporidiis perfecte globosis, nucleatis, episporio levi, luteolo, 8 μ . diam.
Hab. in pagina inferiore foliorum aridorum Salicis arcticæ, Sabine Insel Groenlandiæ.

MICROASCUS Zukal Ein. neue Pilze, Myx. Bakt. pag. 9, f. 3 (Etym. *micro* parvus et *ascus*). — Perithecia subcarbonacea, rostrata (setulosa, fimicola). Asci globulosi, subgelatinosi, 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** Zuckal Ein. neue Pilze, Bakt. Myx. p. 9, 1987
 tab. XV, fig. 3. — Peritheciis globosis, nigris, carbonaceis, sparsis vel gregariis, 400 μ . altis, matrice subimmersis, ostiolo cylindraceo, pilis rigidis, cuspidatis, obsito, 150-200 \simeq 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 \simeq 2-3, levibus, brunneis.

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

CHÆTOMIUM Kunze. — Syll. I, p. 220.

1. **Chætomium pusillum** Ell. et Ev. Proc. Phil. 1890, p. 220. — Peritheciis gregariis, nigris, membranaceis, circ. 150 μ . diam., 200 μ . alt., pilis inferne laxè contextis, pallide ardosiacis, ramosis, superne paucioribus, longioribus, saturatius coloratis, plerumque simplicibus, divergentibus, partim pellucidis et continuis vel vix septatis, basi 3 μ . cr., vestitis; ascis anguste cylindræis, 30 \approx 3,5 p. sp., aparaphysatis; sporidiis monostichis, ellipsoideis, brunneis, 3,5-4,5 \approx 2,5-3. 1988

Hab. in dolio in cella vinaria, Newfield, N. Jersey et Manhattan, Kansas Amer. bor.

2. **Chætomium discolor** Starb. Skand. Pyren. p. 1, t. I, f. 1. — Perithecis laxè gregariis vel sparsis, semi-globosis v. conico-ovoideis, 300-350 μ . diam. tenuissimis, pilis longioribus brevioribusve ubique obsessis; setis superne radiantibus, cinereo-atris, ad basin perithecii in flavum colorem vergentibus, erectis, simplicibus, rugosis; pilis rhizoideis curvulis, ramosis et multiseptatis; ascis cylindræis, irregulariter curvatis, breviter stipitatis, mox diffluentibus, 8-sporis, 36-40 \approx 5; sporidiis monostichis, intra ascos hyalinis, dein olivascens, pomiformibus vel ovoideis vel plus minus sphæroideis, guttulis minusculis 2-3 præditis, 7 \approx 4. 1989

Hab. ad lignum fagineum cariosum, Klöfvahallar Scanicæ.

3. **Chætomium setosum** Wint. Exot. Pilze IV, p. 10. — Mycelio valde evoluto; e fibris ramosissimis, fuscis, densissime intertextis, formato; peritheciis subsparsis, superficialibus, subgloboso-obovatis fragilissimis, atris, demum dehiscentibus, 130-140 μ . lat., pilis aliis rectis, setiformibus, strictis, divergentibus, aliis brevioribus, ramosis ramis ramulisque dichotomis, asperulis, atro-fuscis, undique præcipue autem verticem versus obsitis; ascis non visis; sporidiis late ellipsoideis, utrinque acutiusculis, sæpe parum inæquilateralibus, fuscidulis, 6,2-6,6 \approx 4-4,8. 1990

Hab. in ramulis Berberidis buxifoliæ, in Patagonia Amer. austr. (HARIOT).

4. **Chætomium macrosporum** Sacc. et Penz. Mich. II, p. 591. — Peritheciis gregariis, superficialibus, olivaceo-fuscis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam. (cum pilis), globoso-conicis, setulis olivaceo-fuliginis, flexuosis; ascis mox diffluentibus, tereti-fusoideis, 60-70 \approx 18; sporidiis subdistichis, initio viridulis, e fronte globosis vel globoso-angulosis, 1991

14-16 μ . diam., e latere compressis 7-8 μ . cr., sæpius 1-guttatis, fuligineis.

Hab. in charta putrescente herbariorum, Lyon Galliæ (THERRY). — *Chætomio crispato* Fuck. subaffine.

5. **Chætomium Fieberi** Corda. — Sacc. Syll. I, p. 223, * **C. Saccardianum** Bomm. et Rouss. in litt., Sacc. in Misc. Myc. I, pag. 17. — 1992
Peritheciis minutis, $\frac{1}{8}$ mm. diam., mox collabascendo cupulatis; setulis filiformibus, fuligineis, 150 \approx 200 \approx 3, modice flexuosis, sursum denticulato-conidiophoris, conidia sphærica, hyalina dein fuscidula, distincte muriculata, 8-9 μ . diam. gerentibus; sporidiis limoniiformibus, 9-7, fuligineis.

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

6. **Chætomium Polypori** Rehm Beitr. Ascom. in Hedw. 1882, p. 123. — 1993
Peritheciis sparsis, minimis, globosis, atris, scabris, sessilibus, setis simplicibus, brevissimis, acutis, c. 2 μ . crassis obsessis; ascis cylindraceis, 8-sporis, 35 \approx 5; sporidiis subrotundis vel rotundis, 1-cellularibus, fuscidulis, 5 μ . diam., 1-stichis; paraphysibus filiformibus, teneris.

Hab. ad Lenzitem sepiariam pr. Augustam Vindelicorum seu Augsburg Baviariæ (BRITZELMAYR).

7. **Chætomium velutinum** E. et E. in Journ. of Myc. 1885. — Peri- 1994
theeciis 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).

8. **Chætomium humanum** Karst. Symb. Myc. XXVII, pag. 33. — Pe- 1995
ritheciis sparsis, superficialibus, ovoideis v. conoideis, atris, undique, apice excepto, setosis, 300-400 μ . alt.; setis simplicibus, septatis, divergentibus, rectis vel subflexuosis, fuligineo-atris, sursum pallidioribus, levibus, 400 \approx 12; sporidiis octonis, primo conglobatis, hyalinis, guttulatis, sphæroideo-ellipsoideis, 10-14 \approx 8, dein ellipsoideis, utrinque attenuatis, olivaceo-fuligineis, pellucidis luce refracta cupreo-micantibus, 14-17 \approx 8-9.

Hab. supra fimum humanum in Mustiala Fenniæ.

9. **Chætomium caninum** Ell. et Ev. Journ. Myc. 1888, p. 67. — Pe- 1996
ritheciis ovoideis, 250 \approx 220, membranaceis, cinereo-griseis, dense gregariis, tenuibus, grosse cellulosis, pilis subremote septatis, dilute griseis, muricato-asperis, superioribus longioribus, 300 \approx 4,

apice subcircinatis, basi subincrassatis vestitis; ostiolo papilliformi, nigro præditis; ascis clavatis, p. sp. 20-24 \approx 8-9, basi gracilibus, 8-sporis; sporidiis breviter citriformibus, fumoso-hyalinis, coacervatis subolivaceis, vix apiculatis, initio multo minoribus, 5-7 \approx 4-5.

Hab. in fimo canino, socia *Isaria felina?* St. Martinsville, La. Amer. bor. — Est probabiliter forma nana *Ch. stercorei*.

10. **Chætomium cymatotrichum** Cooke in Grevillea XII, p. 21. — Gre- 1997
garium; peritheciis depresse globosis, 200 μ . d., ubique lanosis, olivaceo-fuligineis, ostiolo atro; pilis tenuibus, simplicibus, glabris, intertextis, numerosissimis, gyroso-flexuosis, fuscis; ascis piriformibus; sporidiis globosis ovatisve, leniter utrinque apiculatis vel obtuse rotundatis, fuligineis, 10 \approx 8.

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

11. **Chætomium Libertiæ** Roum. et Pat. Rev. Myc. V, p. 15, t. XXXV, 1998
f. 2. — A *Ch. crispato*, cui affine, differt peritheciis sparsis nec aggregatis, setis rectis ramosisque nec contortis, biformibus, aliis crassioribus, asperis, fuligineis, aliis tenuioribus septatis subdiaphanis; ascis longe stipitatis, clavatis; sporidiis plerumque distichis, limoniformibus, utrinque acutis, guttatis, fuligineis.

Hab. in ramulis emortuis Sarothamni scoparii, Malmedy (Prov. Rhenan.).

12. **Chætomium atrum** Link. — Sacc. Syll. I, p. 221. — Var. **distinctum** Roum. in Rev. Myc. 1886, pag. 138. — Peritheciis solitariis, in lineas parallelas dispositis, quam in typo majoribus. — In ligno Populi loco udo servato (ANGÉLE ROUMEGUÉRE).

13. **Chætomium delicatulum** Roum. in Rev. Myc. 1885, p. 22. — Pe- 1999
rthechiis solitariis, raro 2-3 gregariis, ovoideis, regularibus, nigris, pilis, simplicibus, ad basim perithecii brevibus, sursum longis, peritheciis altitudinem æquantibus, parcis, ramosis, fuligineis tectis; ascis oblongo-ellipsoideis, regularibus, 45-50 \approx 6-7, breve stipitatis, octosporis; sporidiis subsphæroideis, 6-7 μ . diam., hyalinis (semper?).

Hab. in pulvere Scillæ corruptæ, Seine-Inferieure Galliæ (MALBRANCHE). — Species sporidiis hyalinis, a typo desciscens.

BOMMERELLA Marchal in Bull. Soc. Royal. Bot. Belg. 1885, p. I et 1889, t. X (Etym. a dom. E. 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 sporidiorum forma mox dignoscitur. Adest etiam status conidiophorus, *Oosporam* exhibens.

1. **Bommerella trigonospora** March. in Bull. Soc. Royal. Bot. Belg. 2000
1885, p. 1. — Peritheciis e filamentis conidiophoris oriundis, primum globosis dein ovoideis vel ellipsoideis, brevissime ostiolatis, 200-350 \simeq 150-200 μ . undique setosis; setis fuliginis, sæpius rectis, remote septatis, initio asperulis dein levibus, terminalibus longioribus et densioribus, 300-430 \simeq 4,4-5; ascis numerosis clavatis, apice acutiusculis, breviter stipitatis, aparaphysatis, 50-70 \simeq 7,5-9; sporidiis 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 pr. Aerschot Belgii. — Status conidicus: **Oospora Trigonosporæ** Berl. et Vogl. Add. Syll. pag. 39: 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 partee inferiores sessilibus v. breviter pedicellatis, plerisque in catenulas elongatas, flexuosas adscendentesque digestis, globosis, hyalinis, 7,3-9 μ . diam. Cum statu ascophoro, ibidem (MARCHAL).

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

1. **Sordaria Lojkæana** Rehm Ascom. Ill. n. 946. — Peritheciis soli- 2001
tariis, primitus subimmersis, dein plus minusve emergentibus, globosis, apice applanatis, interdum subconcavis, fuscis, papilla rotunda, nigrescente, poro minimo pertusa instructis, 1 mm. diam.; ascis cylindræo-clavatis, crassis, 250 \simeq 18-21, 8-sporis; sporidiis ellipticis, 1 cellularibus, haud nucleatis nec appendiculatis, gelatina, 2-3 μ . cr. obtegente, 27-30 \simeq 12-14, plerumque 1-stichis; paraphysibus longissimis, filiformibus, nucleatis, 4-5 μ . cr.; poro Jodi ope valde cœrulescente.

Hab. ad stercus Capræ in Hungaria (LOJKA). — A *S. bombardioide* peritheciis semper globosis, non omnino superficialibus, a *S. maxima* ascis 8-sporis diversa.

2. **Sordaria pseudominuta** Speg. F. Fueg. n. 160. — Peritheciis spar- 2002
sis, semiimmersis, e globoso piriformibus, 250-300 μ . diam., obtuse minuteque ostiolatis, atris, glabris, crassiuscule membranaceis,

contextu parenchymatico, fuligineo donatis; ascis mox diffluentibus, 8-sporis; sporidiis fuligineis, oblique monostichis, ellipticis, non v. vix sublimoniformibus, 25-28 \simeq 12-14, caudis, altera apicali, involuta, globulum 6 μ . diam. simulante, altera basali, recta, cylindræa, 12-18 \simeq 4, hyalinis ornata.

Hab. in fimo vaccino in herbosis pr. Ushuvaia Amer. austr. — Species *S. minuta* Fuck. peraffinis, peritheciis glabris, sporidiis majoribus satis recedens.

3. **Sordaria hypocoproides** Speg. F. Fueg. n. 161. — Peritheciis e 2003
globoso piriformibus, 450-500 μ . diam., immersis, ostiolo crasso, obtuso, non v. vix exserto donatis, glabris, atris, crassiuscule membranaceis, coriacellis, contextu indistincto; ascis cylindræis, apice rotundato-truncatis, crasse tunicatis, 3-foveolatis, basi in pedicellum breviusculum attenuatis, 160-200 \simeq 20, 8-sporis, paraphysibus filiformibus, guttulatis, crassiusculis, parce obvallatis; sporidiis recte v. suboblique monostichis, ellipticis v. inæquilateralibus, subcymbiformibus, 28-32 \simeq 12-13, utrinque obtuse rotundatis, basi apiculo globoso, minutissimo, vix perspicuo, hyalino auctis, opace fuligineis.

Hab. ad fimum vaccinum putrescentem in herbosis pr. Ushuvaia et in Gabel island Amer. austr.

4. **Sordaria pilosa** Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 144, 2004
— Peritheciis immersis, globoso-ovatis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., contextu sordide brunneo, ostiolo conico, pilis fuligineis erectis, vulgo esep-tatis, 100 \simeq 2,5 instructo donatis, confluentibus; ascis cuneiformi-clavatis, apice fere truncatis, basim versus sensim attenuatis, octo-sporis, 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, Gomzé Forêt in Belgio.

5. **Sordaria lutea** E. et E. Journ. Myc. 1887, p. 118. — Peritheciis 2005
gregariis, 0,5 mm. diam., membranaceis, conico-globosis, ostiolo papilloso-conico et nigro excepto, tomento dilute flavo, e pilis ramosis. subrugosis composito, tectis; ascis lanceolatis, apice rotundato perforatis, 190-130 \simeq 15; sporidiis initio vermicularibus et flavido-viridibus, dein amygdaliformibus et opacis, appendice cylindræa, incurva, 30-35 \simeq 4 basi præditis, vertice appendice gracili, brevi, rarissime instructis.

Hab. in ligno putri Kalmiæ et Aceris, Newfield N. Jersey Amer. bor.

6. **Sordaria sparganica** Phill. et Plowr. in Grevillea XIII, p. 76, 2006
Buckn. F. Brist. V, p. 7, t. II, f. 7. — Peritheciis atris, globosis, superficialibus, setis atris, intricatis tectis; ostiolis prominentibus, rotundatis; sporidiis ellipticis, obscure brunneis, utrinque truncatis et appendicula hyalina, cylindrica ornatis, $12 \approx 8$.

Hab. in emortuo Sparganio, Vattan Britanniaë (BUCKNALL). —
Var. **velata** Buckn. Fung. Brist. IX, p. 46, t. V, f. 2: peritheciis subepidermicis, depressis; ostiolo conico, erumpente; ascis $200 \approx 17$; sporidiis $18-20 \approx 9-10$. In caulibus emortuis Umbelliferarum, Bristol District Britanniaë.

7. **Sordaria Wiesneri** Zuk. Neue Ascom. p. 5, t. I, f. 6. — Peritheciis gregariis, superficialibus, $1,5-2,5$ mm. alt., opacis, globoso-ovoideis, hyphis tenuissimis, albis, tectis; collo nudo, crasso, recto vel subincurvulo; ascis cylindraceutis, apice obtuso, subincrassato, p. sp. circ. $169 \approx 17$, stipite ex æquilongò, 8-sporis; sporidiis 1-stichis, ellipsoideis vel subglobosis, atro-brunneis, dein mucò vix perspicuo involutis, $19 \approx 16$. 2007

Hab. in fibris udis Cannabis sativæ in Austria. — *S. Fermenti* et *S. humanæ* affinis.

8. **Sordaria striata** E. et E. Journ. Myc. 1888, p. 67. — Peritheciis ovato-conicis, $\frac{3}{4}$ mm. alt., $\frac{1}{2}$ mm. lat., nigris, tuberculoso-rugulosis, tuberculis sursum seriatis ostiolaque striata reddentibus; ascis lineari-lanceolatis, apice perforatis, $200 \approx 12-15$, copiose paraphysatis; sporidiis distichis, $45-50 \approx 4-4,5$ (non omnino maturis visis) cylindraceutis supra in capitulum ellipsoideum, $12-15 \approx 7-8$ dilatatis, utrinque appendicula 12μ . long. auctis. 2008

Hab. in caulibus dejectis herbarum majorum St. Martinsville La. Amer. bor. (LANGLOIS). — Tubercula initio granulis pallidis sacchari instar conspersa.

9. **Sordaria penicillata** E. et E. Journ. Myc. 1888, pag. 78 (ex errore 66). — Peritheciis gregariis, ovoideis, $\frac{1}{4}-\frac{1}{3}$ mm. diam., initio, ostiolo prominulo excepto, omnino immersis, dein tantum semiimmersis, ostiolo breviter cylindraceuto vel obtuse conico, pilis rectis, valde confertis, pallide brunneis, continuis, $\frac{1}{3}-\frac{1}{2}$ mm. long., cincto; ascis oblongis cylindraceutis, circ. $150 \approx 20-25$, 4-sporis, indistincte paraphysatis; sporidiis primo subhyalinis, clavato-cylindraceutis, dein olivaceis, crasse 1-nucleatis, tandem ellipsoideis et opacis, $25-30 \approx 18-20$, subtus appendice cylindraceuta, subrecta, hyalina, $12-15 \approx 4-5$, supra acuminatis v. subtruncatis. 2009

Hab. in storea dejecta, St. Martinsville Louisiana Amer. bor.

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

1. **Hypocopra jowana** Ell. et Holw. Journ. Myc. 1888, p. 65. — Pe- 2010
 ritheciis plerumque dense gregariis, ovatis, $\frac{1}{3}$ mm. diam., basi ma-
 trice immersis, stromate nullo, supra emergentibus, nigris, tuber-
 culoso-rugosis, grosse celluloso-membranaceis; ostiolo tuberculosó-
 mammoso, breve cylindraceo vel conico-cylindraceo, poro minuto
 rotundo; ascis teretibus, 100 μ . long., copiose tenui-paraphysatis;
 sporidiis monostichis, initio flavidis, 1-nucleatis, maturis opacis,
 utrinque subobtusis, muticis, 20 \simeq 8,

Hab. in fimo equino, Decorah Jowa Amer. bor. (HOLWAY). —
 Affinis videtur *H. scatigenæ* sed non hispida.

2. **Hypocopra Saccardo** March. Fungi coproph. pag. 23, tab. III, 2011
 f. 7-9. — Peritheciis subgregariis, semiimmersis, atris, 240-280 μ .
 altis, globosis, cum ostiolo conico brevi, crasso, setulis nigrofuscis,
 rigidis, 20-25 \simeq 2-3 instructo, deorsum villo fusco obsitis; ascis
 cylindraceis, breviter stipitatis, apice rotundatis, 8-sporis, 120-160 \simeq
 8,8-10 μ ., aparaphysatis; sporidiis oblique monostichis, ellipsoideis,
 initio flavidis, translucidis, dein fuligineis, strato muco hyalino flu-
 xili obvolutis, 17-17,5 \simeq 7,5-8.

Hab. in fimo Cuniculorum prope Neufchâteau Belgii.

3. **Hypocopra Winterii** Oud. Hedw. 1882, pag. 160, *Sordaria Win-* 2012
terii Oud. 1882, p. 123 et 160 (nec *Sord. Winterii* Karst). —
 Peritheciis sparsis, usque ad collum immersis, subglobosis, fusco-
 nigris, translucetibus, glabris, absque collo glabro, erecto, conico
 obtuso, 150 μ . longo, 425 μ . in diametro metientibus; ascis 8-spo-
 ris, perfecte cylindraceis, breviter pedunculatis, apice truncatis, mem-
 brana duplici apice incrassata et resupinata, 150 \simeq 9-10, paraphy-
 sibus nullis; sporidiis monostichis, primitus ellipticis, denique el-
 liptico-oblongis, brevi ante maturitatem 23-25 \simeq 15-20, post asco-
 rum destructionem, itaque prorsus maturis, 21-22 \simeq 10-11, atris,
 lucidis, vacuolo centrali, neque appendiculatis, neque zona mucila-
 ginea circumdatis.

Hab. in fimo Cameli prope Amsterdam Hollandiæ. — Acce-
 dit ad *S. humanam*, sed differt sporidiorum forma, paraphysum
 absentia, peritheciolorum dimensione et collo.

4. **Hypocopra dunarum** Mouton in Bull. Soc. R. Bot. Belg. 1886, 2013
 p. 145. — Peritheciis sparsis, immersis, globosis, $\frac{1}{2}$ mm. diam.,
 glabris, contextu membranaceo-coriaceo, badio-fusco, ostiolo brevi
 et crasso, emergente; ascis cylindraceis, 200-220 \simeq 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.

5. **Hypocopa Darwinii** Speg. F. Pat. n. 118. — Peritheciis sparsis, minutis ex ovato globosis, 250-300 μ . d., nudis, glabris, levibus, ostiolo vix prominulo obtuso donatis, membranaceis, contextu parenchymatico-subindistincto, pellucido, fuligineo; ascis cylindratis, 80-90 \approx 8-9, apice obtuse rotundatis v. subtruncatis, subbifoveolatis, deorsum breviter attenuato-pedicellatis, octosporis; paraphysibus parvis filiformibus, simplicibus; sporidiis recte v. oblique monostichis, discoideo- vel subelliptico-lenticularibus, 8-10 \approx 7-9 \approx 4-4,5 eguttulatis, levissimis, fuliginis, tunica mucosa destitutis.

Hab. in fimo Struthionum (Rheæ Darwinii) putrescente in Meseta secus Rio Santa Cruz Patagoniæ. — Specimina nonnulla in fimo equino prope Punta Arenas vix differunt ascis paullulo longioribus præcipue in parte stipitali, 110-120 \approx 10, stip. 70-80 μ . long. *Hypocopræ discosporæ* summopere affinis, vero tamen satis distincta.

6. **Hypocopa patagonica** Speg. F. Pat. n. 119. — Peritheciis minutis subpiriformibus 180-200 μ . diam., superficialibus vel semiimmersis, levibus, vix circa ostiolum crasse umbonatum minutissime ruguloso-papillulosis, membranaceis, contextu grosse parenchymatico-celluloso, pellucido, olivaceo; ascis cylindratis apice truncato-rotundatis, tunica modice incrassatis, deorsum in stipitem mox fluxilem ac evanescentem attenuato-productis p. sp. 130 \approx 10-15, octosporis; paraphysibus filiformibus, subfluxilibus, simplicibus, densiusculis; sporidiis recte vel oblique monostichis, ellipticis v. ovoideis, 15-18 \approx 8, utrinque obtusis, levibus eguttulatis, opace fuliginis, mucosæ destitutis.

Hab. in fimo equino prope Misioneros secus Rio Santa Cruz Patagoniæ. — Species *H. fimicolæ* nec non *H. argentinæ* affinis, ab utraque sporidiis ascisque gracilioribus præcipue recedens.

7. **Hypocopa ornithophila** Speg. F. Pat. n. 120. — Peritheciis sparsis, minutis, globosis, 258-300 μ . diam., matrici immersis, ostiolo atro superficiem matricis attingente v. vix exserto, subcarbonaceo, udo papillulato, sicco cupulato-collapso donatis, griseis, sordide

pruinulosis, carnosulo-membranaceis, contextu subindistincto, pallide fulvo-olivascens; ascis cylindratis apice truncato-rotundatis, ac tunica crassiuscula, tri-foveolata donatis, basi in stipitem attenuato-productis, 140-150 \approx 12-14, ped. 20-25; paraphysibus filiformibus, toruloso-guttulatis, apice sæpe ramulosis parce obvallatis, octosporis; sporidiis ellipticis vel elliptico-ovoideis, 22-24 \approx 11-12, utrinque obtusiusculis, eguttulatis, levissimis, primo tunica mucosa, crassa, hyalina involutis dein nudis.

Hab. in stercore vetusto Berniciæ antarcticæ in maritimis prope Punta Arenas Patagoniæ. — Ab *H. aviariæ* longe abhorrens.

8. **Hypocopra pilosella** Speg. F. Fueg. n. 165. — Peritheciis subsuperficialibus e globoso subpiriformibus, 180-200 μ . diam. non vel parce umbonato-ostiolatis, atris, præcipue circa ostiolum laxe puberulo-hispidis, pilis unicellularibus acutis simplicibus subcylindricis, 20-40 \approx 2-3, opace fuliginis, coriaceo-membranaceis, contextu subopaco atro parenchymatico donatis; ascis cylindratis, apice brevissime attenuatis, truncato-rotundatis, bifoveolatis, basi abrupte minuteque coarctato-pedicellatis 80-95 \approx 7-8, octosporis; paraphysibus filiformibus densiusculis; sporidiis oblique distichis, ellipticis, utrinque late rotundatis 9-10 \approx 6-7, e latere compressis, 4-5 μ . cr., opace fuliginis, mucosæ destitutis.

Hab. in fimo equino vetusto putrescente pr. Ushuvaia Fuegiæ.

9. **Hypocopra? parvicaudata** Speg. F. Fueg. n. 166. — Peritheciis innato-erumpentibus, solitariis v. pauci-aggregatis, ovato-piriformibus, majusculis 1 mm. diam., grosse umbonato-ostiolatis, atris, crasse membranaceis, contextu opaco indistincto fuligineo, subiculo olivaceo ex hyphis gracilibus, 3-4 μ . crass., dense intricato-ramosis, parce septulatis, laxè insidenti-vestitis; ascis cylindratis majusculis, 350-400 \approx 30, apice subattenuatis crasseque tunicatis leniter bifoveolatis, basi longiuscule attenuato-pedicellatis, paraphysatis, octosporis; sporidiis oblique monostichis, ellipticis, 45-50 \approx 25, opace fuliginis, utrinque obtusis, basi apiculo e globoso-conico 5 μ . diam., hyalino auctis, strato mucoso hyalino crassissimo 5-8 μ . crass. obvolutis.

Hab. in fimo equino putrescente rarissime prope Ushuvaia Fuegiæ. — Specie prædistincta, hinc ad *Sordariam* hinc ad *Hypocopram* vergens, et vere ambigua.

10. **Hypocopra consanguinea** (Ces.) Sacc. *Sordaria consanguinea* Ces. Hedw. 1882, p. 10. — Peritheciis sparsis, punctiformibus, epi-

dermide obtectis, quam demum findunt, verticem obtusum convexum revelantibus; ascis linearibus 60-70 \times 16; sporidiis 8, semiserialibus, ellipticis, ad utrumque polum subacutiusculis, primitus viridibus, dein fuscis, omni ætate in medio ocellatis.

Hab. in lamina exsiccata foliorum *Sabal Adansonii* ex herbario bot. Neapolitano, sub dio (CESATI).

COPROLEPA Fuck. — Syll. I, p. 268.

1. **Coprolepa antarctica** Speg. F. Fueg. n. 168. — Stromatibus sæpius parvulis orbicularibus, 1-2 mm. diam., indeterminatis, laxe gregariis vel sæpe plus minusve confluentibus, extus ligneo-pallescentibus, coriacellis, compactiusculis levibus, centro ostiolo crasso non vel vix prominulo, nigricante perforatis, intus albis, furfuraceis; peritheciis sæpius solitariis, rarius 3-4-aggregatis, immersis, globosis, majusculis, 500-700 μ . diam., tenui-membranaceis, mollibus, fuliginosis, contextu densissime ac subindistincte parenchymatico, olivaceo, ostiolo crasso brevissimo obtuso coronatis; ascis cylindræis, antice truncato-rotundatis, crassiuscule tunicatis, postice in pedicellum breviusculum attenuatis, 140-150 \approx 14-15, octosporis; paraphysibus paucis filiformibus, sæpius immixtis; sporidiis monostichis ellipticis, leniter inæquilateralibus, utrinque obtusis, 20-25 \approx 9-10, grosse 1-areolato-nucleatis, strato hyalino mucoso crasso obvolutis.

Hab. vulgatissima in fimo *Auchenia* Guanaci et *Bernicla* antarctica per Fuegiam totam.

2. **Coprolepa Saccardi** Oud. Hedw. 1882, p. 161. — Peritheciis in crusta stromatica ex hyphis fuscescentibus ramosis septatis contextis nidulantibus, immersis, majusculis, globosis, glabris, ostiolo papilliformi tantum prominentibus, atris; ascis cylindræis longiuscule pedunculatis, ad sporidiorum intervalla constrictis, apice in rostrum cylindricum, truncatum, pachydermum, protoplasmate granuloso repletum, vulgo 14-16 μ . latum, contractis, absque pedunculo 450-500 \approx 35; paraphysibus subtilissimis, ramosis, septatis, multiguttulatis, obvallatis; sporidiis oblique monostichis, atro-nitentibus, ovoideis, 50 \approx 25, basi globulo minutissimo achromo appendiculatis, in involucre mucilaginose, sub aqua viso 10 μ . lato nidulantibus.

Hab. in stercore *Cuniculorum* prope Harlem Hollandiæ.

3. **Coprolepa Kicksii** March. Bull. Soc. Roy. Bot. Belg. 1885, p. 1. — Peritheciis aggregatis, sæpe omnino stromate crustaceo, late ef-

fuso, extus nigro, villosa, pilis septatis, 150-250 \approx 3-4,5, brunneo-fuligineis vestito, immersis, globosis, ostiolo papillæformi, nigro, matricis superficiem vulgo vix superante; ascis cylindræis, 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 fimum leporinum sub Abietibus circa pagum Beggennendijck in Belgio. — *C. equorum*, cui affinis, paraphysibus atque exiguitate sporidiorum distincta.

PHILOCOPRA Speg. — Syll. I, p. 240.

1. **Philocopra polyspora** (Ph. et Pl.) Sacc., *Sordaria polyspora* Ph. 2023 et Pl. Grev. X, pag. 73, t. 158, f. 1. — Peritheciis semimmersis, sparsis, globosis, setulis parcis, nigris superne vestitis; ostiolo elongato; ascis cylindræis poly-(128?)-sporis 60 \approx 10; sporidiis ellipsoideis, continuis, 5-8 \approx 4-5, nigricantibus.

Hab. in fimo Cuniculorum, prope Bristol Britanniae (BUCKNALL). — Præcipue sporidiis minutis dignoscenda species.

2. **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.

Hab. in fimo Cuniculorum, Forêt Gomzé Belgii.

3. **Philocopra Hansenii** Oud. Hedw. 1882, p. 123 et 160. — Peritheciis sparsis, in fimo cuniculorum siccato, inter straminis fibrillas, collo tantum prominentibus, subglobosis, 350 μ . diam. metientibus, in collum breve conicum 230 μ . longum, setoso-hirtum desinentibus, glabris, fusco-nigris, subtranslucentibus; ascis lanceolatis, 150 \approx 12, antrorsum breviter, deorsum longius contractis, polysporis, breviter pedunculatis; sporidiis disciformibus, a fronte visis perfecte orbicularibus, a latere visis biconvexiusculis, e viridescenti fuscescentibus, tandem atro-fuscis, 7-9 μ . diam., absque appendicibus et halone mucilaginoso.

Hab. in fimo Cuniculorum prope Amsterdam Hollandiæ.

4. **Philocopra pusilla** Mouton in Bull. Soc. Bot. R. Belg. 1886, p. 146. 2026 — Peritheciis exiguis, immersis, glabris, tenuiter membranæis, pallide virescentibus; ascis cylindræis v. 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.

Hab. in fimo Cuniculorum, Angleur Belgii.

HAPLOSPORIUM Mont. Ann. 2, XX, p. 372 et Fl. Alg. I, 543, c. ic. (Etym. ab *haplos* simplex 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. Spordia magna, globosa, rugosa, tandem nigra, opaca, episporio reticulato, subfoveolato, fragili nucleoque granuloso insignia.

1. **Haplosporium Bulborum** Dur. et M. Syll. Crypt. n. 956, l. l. c. c., 2027 t. 25, f. 2. — Characteres iidem ac generis; ascis clavato subpiriformibus, 100-120 \approx 20-30; sporidiis globosis, 50 μ . diam. (generis).

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

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 J. MÜLLER). — Perithecia plus minusve immersa, globosa, atra, poro pertusa. Asci polyspori. Sporidia unicellularia, fusca. Paraphyses indistinctæ. — Species lichenicola.

1. **Müllerella polyspora** Hepp in Müller Principes de Classification 2028 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 præditis, 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.

ROSELLINIA De Not. — Syll. I, p. 252.

1. *Eu-Rosellinia* Sacc.

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

Hab. in ramulis putridis Corni sanguineæ vel Ligustri Vigheffio pr. Parmam Ital. bor. — Ascis longioribus, angustioribus, longius stipitatis, paraphysibus guttulatis et sporidiis brevioribus angustioribusque a *R. mastoidea* distinguenda.

14. **Rosellinia subsimilis** Karst. et Starb. in Rev. Myc. 1887, p. 160. 2036

— Peritheciis superficialibus, aggregatis, interdum connatis, sphæroideis, v. conoideo-sphæroideis, ostiolo acute papillato, atris, tomento tenui griseo, excepto ostiolo, velatis, circiter 0,5 mm. diam.; ascis teretibus; sporidiis oblique monostichis, oblongatis vel elongatis, curvulis, rarius inæquilateralibus vel rectis, 1-, rarius 2-4-guttulatis, olivaceis, semipellucidis, utrinque hyalino-appendiculatis, 24-35 \approx 7-9, appendiculis 2-3 μ . longis.

Hab. in ligno vetusto Salicis ad Mustiala Fennicæ (K. STARBAECK). — A *Rosellinia araneosa* distincta ob sporidiorum formam et appendices.

15. **Rosellinia hemisphærica** Sacc. et Paol. Myc. Malac. n. 86, t. I, f. 9. 2037

— Peritheciis gregariis, e basi applanata adnata circulo exiguo cincta, hemisphæricis, superficialibus, $\frac{3}{4}$ mm. diam., atro-nitidis, minute papillatis, carbonaceis; ascis cylindricis, deorsum attenuatis, p. sp. 54 μ ., octosporis; paraphysibus non visis; sporidiis ellipsoideis, rectis, 1-2-guttulatis, 5-7 \approx 3-3,5, fuligineis.

Hab. in foliis putridis Monocotyledonearum, verisimiliter Yuccæ vel Dracænæ, Malacca (SCORTECHINI). — Affinis videtur *Anthostomellæ caulicolæ*, a qua differt præsertim peritheciis nitidis zona atra cinctis, sporidiis longioribus etc.

16. **Rosellinia amblystoma** Berl. et F. Sacc. Contr. Myc. Lus. p. 2, 2038

t. 83, f. 1. — Peritheciis gregariis globosis, sursum obtuse rotundatis, fere astomis vel inconspicue pertusis subinde confluentibus, geminatis, non papillatis, fragilibus, 0,5 mm. diam.; ascis cylindræis, 80-100 \approx 6-7; sporidiis oblique monostichis, oblongo-ellipsoideis, sæpe inæquilateralibus, 14-17 \approx 5-6, biguttatis, fuligineis.

Hab. in culmis exsiccatis Bambusæ mitis in Hort. Bot. Coimbra Lusitaniæ. — Affinis *R. arctisporæ*.

3. *Amphisphærella* Sacc.

17. **Rosellinia Salicum** H. Fab. Spher. Vaucl. II, p. 37, f. 4. — Pe- 2039

ritheciis superficialibus, ligno carioso et semiputri insidentibus, modo sparsis, modo parce gregariis, globoso-mammæformibus, subtile papillatis, opaco-atris, carbonaceis, fragilibus, rugosiusculis, sulco concentrico sæpe exaratis, 1 $\frac{1}{2}$ mm. diam.; ascis cylindræis,

ta B. et Br. Sacc. Syll. II, n. 4231. — Sporidia non inventa. — Ceylon.

9. **Rosellinia rhodomela** (Schw.) Cooke Grev. XV, pag. 80, *Sphæria* 2032
(Byssisedæ) *rhodomela* Schwein. Amer. bor. n. 1511, nec Sacc.
n. 3263. — Peritheciis globosis, atris, mycelio tenui, roseo insi-
dentibus; ascis linearibus; sporidiis uniseriatis, ellipticis, continuis,
fuscis, $10 \approx 6$.

Hab. in lignis putridis in Amer. bor. (Herb. Berk. 9604).

10. **Rosellinia thelena** Fr. — Syll. I, p. 253. — Var. **elegans** Duby.
— Ex specimine authentico Herb. Kewensis *Sphæria elegans* Duby
huc spectat. (Cfr. Grev. XV, p. 81).

11. **Rosellinia sepulta** (Boud.) Sacc., *Sphæria* Boud. Quelq. esp. p. 311, 2033
t. 4, f. 8 (1877). — Peritheciis rotundatis, minutis, mollibus, flavo-
nigrescentibus, basi filamentis mycelicis brunneis vestitis, supra
ostiolo cylindræo, crassiusculo, nigro, rugoso-granulato, perithe-
cium dimidium æquante, prominente donatis; ascis tenuibus, cylin-
dræeis, hyalinis, 8-sporis; paraphysibus hyalinis, septatis, mox
evanescentibus; sporidiis ellipsoideo-elongatis, subfusoides, $20-30 \approx$
 $7-8$, intus granulosis, primo flavis, dein olivaceis, demum nigris,
prope basin 1-septatis, loculo altero minutissimo, hyalino, 4μ .
long., altero multo majore, $16-26 \mu$. long., colorato.

Hab. in terram infossa, Montmorency Galliæ.

12. **Rosellinia Puiggarii** Pat. Journ. Bot. 1888, p. 217, c. ic. — Subi- 2034
culo brunneo; peritheciis globosis, nigro-brunneis opacis vel mi-
cantibus, 2-3 mm. diam., basi in stipitem crassum, 1 mm. long. at-
tenuatis, sparsis vel cum stipitibus approximatis; ostiolo conico,
valde prominente, non marginato; ascis longissime stipitatis, 150
 $\approx 8-10$, cylindræeis, apice obtusis, 8-sporis; paraphysibus filifor-
mibus, parum distinctis; sporidiis brunneis, elongatis, $32-40 \approx 8-10$,
utrinque attenuatis, muco hyalino involutis.

Hab. in ligno putri, Apiahy Brasilæ (PUIGGARI).

2. *Calomastia* Sacc.

13. **Rosellinia Mamma** Passer. Diagn. Fung. nuov. III, n. 2. — Perithe- 2035
ciis plus minus dense gregariis cortici immutato v. ligno infuscato
insidentibus, globosis, levibus opacis, glabris, vertice sæpe depressis,
ostiolo papillato; ascis paraphysibus filiformibus guttulatis obval-
latis, teretibus longe attenuato-stipitatis, $150-175 \approx 7,5$, parte spo-
rifera $100-125 \mu$. long. 8-sporis; sporidiis monostichis, oblongo-
ovoideis, apicibus acutiusculis, muticis, fuligineis, $15-17,5 \approx 5,6$.

Hab. in ramulis putridis Corni sanguineæ vel Ligustri Vigheffio pr. Parmam Ital. bor. — Ascis longioribus, angustioribus, longius stipitatis, paraphysibus guttulatis et sporidiis brevioribus angustioribusque a *R. mastoidea* distinguenda.

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— Peritheciis superficialibus, aggregatis, interdum connatis, sphæroideis, v. conoideo-sphæroideis, ostiolo acute papillato, atris, tomento tenui griseo, excepto ostiolo, velatis, circiter 0,5 mm. diam.; ascis teretibus; sporidiis oblique monostichis, oblongatis vel elongatis, curvulis, rarius inæquilateralibus vel rectis, 1-, rarius 2-4-guttulatis, olivaceis, semipellucidis, utrinque hyalino-appendiculatis, 24-35 \approx 7-9, appendiculis 2-3 μ . longis.

Hab. in ligno vetusto Salicis ad Mustiala Fennicæ (K. STARBAECK). — A *Rosellinia araneosa* distincta ob sporidiorum formam et appendices.

15. **Rosellinia hemisphærica** Sacc. et Paol. Myc. Malac. n. 86, t. I, f. 9. 2037

— Peritheciis gregariis, e basi applanata adnata circulo exiguo cincta hemisphæricis, superficialibus, $\frac{3}{4}$ mm. diam., atro-nitidis, minute papillatis, carbonaceis; ascis cylindricis, deorsum attenuatis, p. sp. 54 μ ., octosporis; paraphysibus non visis; sporidiis ellipsoideis, rectis, 1-2-guttulatis, 5-7 \approx 3-3,5, fuligineis.

Hab. in foliis putridis Monocotyledonearum, verisimiliter Yuccæ vel Dracæneæ, Malacca (SCORTECHINI). — Affinis videtur *Anthostomellæ caulicolæ*, a qua differt præsertim peritheciis nitidis zona atra cinctis, sporidiis longioribus etc.

16. **Rosellinia amblystoma** Berl. et F. Sacc. Contr. Myc. Lus. p. 2, 2038

t. 83, f. 1. — Peritheciis gregariis globosis, sursum obtuse rotundatis, fere astomis vel inconspicue pertusis subinde confluentibus, geminatis, non papillatis, fragilibus, 0,5 mm. diam.; ascis cylindraceis, 80-100 \approx 6-7; sporidiis oblique monostichis, oblongo-ellipsoideis, sæpe inæquilateralibus, 14-17 \approx 5-6, biguttatis, fuligineis.

Hab. in culmis exsiccatis Bambusæ mitis in Hort. Bot. Coimbra Lusitaniæ. — Affinis *R. arctisporæ*.

3. *Amphisphærella* Sacc.

17. **Rosellinia Salicum** H. Fab. Spher. Vaucl. II, p. 37, f. 4. — Pe- 2039

ritheciis superficialibus, ligno carioso et semiputri insidentibus, modo sparsis, modo parce gregariis, globoso-mammæformibus, subtile papillatis, opaco-atris, carbonaceis, fragilibus, rugosiusculis, sulco concentrico sæpe exaratis, 1 $\frac{1}{2}$ mm. diam.; ascis cylindraceis,

nunc longe et sensim, nunc breve stipitatis, 8-sporis; paraphysibus crassis, dense guttulatis, circumdatis, p. sporif. 120-150 \approx 10; sporidiis recte monostichis, atro-brunneis, ellipsoideis et rarius fere globosis, 12-18 \approx 8-12. — Fungus spermogonius; peritheciis sicut in ascophoro; sporulis cylindratis, rectis, hyalinis, oscillantibus, 3-5 \approx 1-2.

Hab. ad lignum cariosum cavum Salicis albæ, Vaucluse Galliæ. — Ad basim perithecorum matrix frequenter albicat, niveaque fit.

18. **Rosellinia anthostomoides** Berl. Exc. Frioul. p. 6, t. IX, f. 1. — 2040

Peritheciis sparsis, globoso-conoideis, ostiolo crasso, fere tantum protuberantibus, 400-500 μ . diam., carbonaceis; ascis cylindratis, basi in stipitem brevissimum, nodulosum abeuntibus, 140-150 \approx 18-20; paraphysibus filiformibus, discretis,asco longioribus, guttulatis; sporidiis late ellipsoideis v. fere globosis, 18-20 \approx 14-16, primo crasse 1-guttatis, brunneis, dein saturate fuligineis.

Hab. in cortice emortuo Osoppo, Friuli Ital. bor. — *R. Salicum* affinis.

19. **Rosellinia Langloisii** Ell. et Ev. Proc. Phil. 1890, pag. 128. — 2041

Peritheciis sparsis, erumpentibus, basi ligno immersis, conico-hemisphæris, $\frac{3}{4}$ mm. diam., levibus, nigris, micantibus, ostiolo papilliformi; ascis circ. 100 \approx 5-6, copiose paraphysatis; sporidiis acute ellipsoideis, atro-brunneis, 2-guttatis, monostichis, 6-7 \approx 4.

Hab. in caule putridissimo Vitis, St. Martinsville, Louisiana Amer. bor. — *R. albolanatae* affinis.

20. **Rosellinia corticalis** Allesch. Süd-Bay. Pilz. II, Nachtr. p. 57. — 2042

Peritheciis sparsis v. gregariis, sæpe confluentibus, cortice partim immersis, aliis fere omnino liberis, globosis, ostiolo brevi, cylindrato, sæpe deciduo, præditis, rugosis, majusculis, nigris, glabris; ascis cylindratis, deorsum stipitiforimi-attenuatis, circ. 120-150 \approx 8-10; paraphysibus æquilongis, subramosis, cinctis; sporidiis octonis, plerumque elongatis, usque ad 18 \approx 6-7, e latere valde compressis, atro-brunneis, 1-3-guttatis.

Hab. in cortice vetusto Populi nigræ pr. München Baviariæ (SCHNABLE).

21. **Rosellinia glandiformis** Ell. et Ev. Proc. Philad. 1890, p. 227. — 2043

Peritheciis sparsis hemisphærico-conicis, nigris, rugulosis, 1-1,2 mm. diam., basi ligno infossis, sæpe annulo cupuliformi basi cinctis; ostiolo minuto, inconspicuo; ascis teretibus, 100-114 \approx 8-10,

copiose paraphysatis; sporidiis 1-stichis, acute ellipsoideis, demum opacis, 14-15 \approx 7-8.

Hab. in ligno dejecto vetusto quercino, St. Martinsville La. Amer. bor. (LANGLOIS).

22. **Rosellinia diderma** (Schw.) Sacc., *Sphæria* Schw. Syll. II, n. 4331.

— Sec. Cooke Grev. sunt sporidia navicularia, continua, 14 \approx 8.

23. **Rosellinia aperta** (Schw.) Sacc., *Sphæria* Schw. Syll. II, n. 4333.

— Sec. Cooke Grev. sunt sporidia ovoidea, brunnea, continua, 7 \approx 5.

24. **Rosellinia albo-lanata** Ell. et Ev. Proc. Phill. 1890, p. 227. — 2044

Peritheciis subseriatis, erumpentibus, basi ligno insculptis, 1 mm. diam., dempto ostiolo papillato nigro, tomento tenui albo-farinoso demum evanido conspersis, bicorticatis, tegumento exteriori carbonaceo, interno submembranaceo; ascis cylindraceutis, 100 \approx 10; sporidiis uniseriatis, ellipsoideis, 11-16 \approx 7-10.

Hab. in trabibus vetustis, Emma Mo. (DEMETRIO) et in truncis Salicis pr. Sheridan Mo. Amer. bor. (FITCH).

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

26. **Rosellinia Massinkii** Sacc., *Rosellinia* Massink Unters. 2045

Krankh. d. Tazetten u. Hyacinth. p. 5, t. I, f. 7. — Peritheciis sparsis, globosis v. subdepressis carbonaceis, semiimmersis, 165 μ . diam., basi pilis 25 \approx 1,7 cinctis, ostiolo inconspicuo; ascis gracilibus, cylindraceutis, apice rotundatis, 54 \approx 8; sporidiis atro-brunneis, ellipsoideis, uno latere plerumque compressis, utrinque rotundatis, oblique monostichis, 10 \approx 5.

Hab. in squamis bulborum Narcissi et Hyacinthi, quos corrumpit, Proskau Germaniæ. — *R. Rosarum* forte affinis.

5. *Coniomela* Sacc.

27. **Rosellinia pulveracea** (Ehrh.) Fuck. — Sacc. Syll. I, p. 264. — 2046

Var. **platysporella** Speg. Fung. Guar. Pug. I, n. 187. — Peritheciis densissime confertis, plagas atras granulatas, subcrustaceas, latissime matricem obtegentes efficientibus, globosis, minutis, 120-180 μ . diam., nigris, glabris, dense granuloso-rugosis, coriaceis, subcarbonaceis, opacis, ostiolo impresso, pertuso donatis; ascis cylindraceutis, apice truncatis, basi modice attenuato-stipitatis, 65-70 \approx 8, octosporis; paraphysibus crassiusculis, septulatis, raris obvallatis; sporidiis oblique vel recte monostichis e fronte ellipsoideo-sphæ-

roideis, 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. Guarapy Brasiliæ.

28. **Rosellinia sordaria** (Fr.) Rehm — Sacc. Syll. I, p. 270, Winter in Hedwigia 1885, p. 100. — Perithecia glabra in specie typica, teste Wint. l. c.
29. **Rosellinia obliquata** (Somm.) Sacc. Syll. I. pag. 260, Winter in Hedwigia 1885, pag. 100. — Perithecia gregaria, plerumque conferta, globosa v. 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 cylindranei, 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.
30. **Rosellinia Molleriana** Wint. Cont. Flor. myc. Lus. Ser. VI, p. 10. ²⁰⁴⁷ — Peritheciis superficialibus, sparsis seu 3-6 (rarius plur.) densissime aggregatis, sæpe confluentibus seu concrementibus, 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).

31. **Rosellinia opaca** Cooke Trans. Roy. Soc. Edin. 1887, p. 391. — ²⁰⁴⁸ Subgregaria; peritheciis globoso-depressis, atris, opacis, 0,25 mm. diam., vix papillatis, superficialibus; ascis cylindraneis, octosporis; sporidiis globoso-ovalibus, 7 \approx 6, fuscis, uniserialibus.

Hab. in lignis in insula Socotra Afr. orient.

32. **Rosellinia rimincola** Rehm — Syll. I, p. 265. — Var. **cicatricum** ²⁰⁴⁹ Passer. Diagn. F. N. IV, p. 3. — Peritheciis ad cicatrices ramulorum elapsorum gregariis, minutis, atris; ascis cylindricis, breviter stipitatis, spurie? paraphysatis, 8-sporis, 60-75 \approx 5-6; sporidiis monostichis, ellipticis, eguttulatis, fuscis, 6-7,5 \approx 5.

Hab. in ramulis emortuis Tamaricis gallicæ, socia *Diplo-*

- dia Tamaricis*, Parma in horto botanico, Ital. bor. — Prætersitum, ascis sporidiisque minoribus a typo differt.
33. **Rosellinia oblectans** (Ces.) Cooke Grev, XV, p. 81, *Sordaria?* *oblectans* Ces. *Anthostomella oblectans* (Ces.) Sacc. Syll. I, n. 1084. — Perithecia tota superficialia; asci cylindracei; sporidia uniseriata, subglobosa, fusca, $6 \approx 4-5$.
34. **Rosellinia callimorpha** Karst. in Hedw. 1884, n. 6, pag. 1, Rev. 2050
atque Synop. Ascom. fenn. p. 75. — Peritheciis conglomeratis v. confluentibus, superficialibus, sphæroideis, ostiolo papilliformi, levibus, glaberrimis, tenuibus, non collabentibus, fragilibus, opacis, fusco-atris, 5-8 mm. lat.; ascis $80 \approx 6$ (par. sporif.); sporidiis monostichis, oblongatis, vulgo inæquilateralibus, eguttulatis, utrinque obtusiusculis, muticis, dilute fulvis, $9-11 \approx 3-4$.
Hab. in ligno vetusto Alni incanæ prope Mustiala Fenniæ.
35. **Rosellinia rugulosa** Schulz. et Sacc. in Rev. Myc. Schulz. Ill. 2051
Fung. Slav. n. 259. — Peritheciis gregariis v. subsparis, superficialibus, globoso-conicis, obtusiusculis, minutissime rugulosis, atris, $\frac{1}{5}-\frac{1}{3}$ mm. 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 *Rosellinix rimircolæ*.
36. **Rosellinia magellanica** Speg. F. Pat. n. 122. — Peritheciis, in li- 2052
gno denudato, dense seriatis v. subbotryose aggregatis, sæpe subconfluentibus, minutis, globosis v. obovatis, $200-300 \mu$. diam., ostiolo minuto papillulato donatis, duris, carbonaceis, atris, levibus, glabris, contextu indistincto; ascis cylindraceis, apice truncato-rotundatis et tunica non v. vix incrassatula sæpeque biguttulata donatis, basi breviter attenuato-pedicellatis, $95-110 \approx 9-11$, octosporis; paraphysibus parcis, filiformibus, simplicibus immixtis; sporidiis recte v. oblique monostichis, elliptico-lenticularibus, $18-20 \approx 8-10 \approx 4-6$, e fronte utrinque obtusis, e latere acutiuscule rotundatis, opace fuligineis, non vel grosse 1-guttulatis, opace fuligineis.
Hab. ad ramos dejectos putrescentes Fagi antarcticæ et Mayteni chilensis in silvis prope Cabo Negro Patagoniæ.
37. **Rosellinia librincola** Karst. Hedw. 1889, pag. 26. — Peritheciis 2053
confertis, basi leviter insculptis, globulosis, subtiliter rugulosis, opacis, nigris, demum poro pertusis, inferne setulis continuis, divergentibus, $30-40 \mu$. longis obsessis, denique calvis, circiter 0,3 mm. latis; sporidiis ellipsoideis, eguttulatis, fuligineis, $12 \approx 6-8$.

Hab. in ramis, peridermio orbatis, *Tiliæ ulmifoliæ* pr. *Mustiala Fennicæ*.

38. **Rosellinia barbatula** B. et C. in Herb. Berk. n. 9621, Cooke in 2054
Grev. XV, p. 81. — Peritheciis glabris, densissime gregariis, sub-
globosis, compressis, atris, opacis; ascis?.....; sporidiis?.....

Hab. verisimiliter in America boreali v. centrali.

39. **Rosellinia tremellicola** Cooke et Mass. Grev. XVIII, p. 6. — Pe- 2055
ritheciis sparsis, globosis, superficialibus, atris, papillatis, glabris;
ascis cylindraceutis, octosporis; sporidiis uniseriatis, ellipticis, con-
tinuis, fuscis, 7-8 \approx 4.

Hab. in *Tremella fuciformi*, Brisbane Australiæ (BAILEY).

40. **Rosellinia appendiculata** B. et V. Funghi Aucon. p. 4, t. I, f. 2. 2056
— Peritheciis sparsis v. subgregariis ovoideis v. conoideis, ostiolo
minuto, nitido, apice impressis, rugosiusculis, $\frac{3}{4}$ mm. diam., su-
perfacialibus, carbonaceis, fragilibus, matrice atrata insidentibus;
glabris; ascis longe cylindraceutis, stipitatis, 140-180 \approx 8-9, p. sp.,
90-100 μ . long., 8-sporis; sporidiis oblique 1-stichis, ovoideis,
utrinque appendicula obtusa, brevissima ornatis, 14-18 \approx 6-7, 1-v.
2-guttulatis, fuliginosis.

Hab. in ligno et ramis decorticatis siccis *Arbuti Unedonis*
pr. Ancona Italiæ. — *R. pulveraceæ* et *R. silvanæ* affinis.

5. *Coniochæta* Sacc.

41. **Rosellinia pallida** Mout. Ascom. Lieg. II, p. 171. — Peritheciis 2057
atris, subglobosis, 300-400 μ . diam., vix papillatis, setis concolo-
ribus, septatis, sparse vestitis; ascis fusoides-clavatis, sursum trun-
catis, deorsum in stipitem protractis, 8-sporis, 90 μ . long., p. sp.
60 \approx 13, paraphysatis; sporidiis incomplete distichis, ovoideo-elli-
psoideis, hyalinis, tandem murinis, eguttulatis, 15-17 \approx 6.

Hab. in ligno vetustorum caudicum pr. Liège Belgii.

42. **Rosellinia horridula** Sacc. in Barbey Fl. Sard. Comp. p. 248. 2058
— 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-spo-
ris; sporidiis oblique monostichis ellipsoideo-subrhombicis, 25-30
 \approx 12-14, 1-guttulatis, fuliginosis.

Hab. in trunco decorticato *Opuntia* pr. Torralba Sardinæ
(MARCUCCI).

43. **Rosellinia rhynchospora** Harkn. New Calif. Fungi pag. 21. — 2059

Peritheciis globoso-conoideis, dense aggregatis, superficialibus, areas latas tegentibus, sursum setis nigris, brevibus, omnino tectis; ascis octosporis, cylindraceis $96 \approx 10$, 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 glaucæ, Blue Canon Californiæ.

44. **Rosellinia Colensoi** Cooke in Grevillea XV, p. 16. — Peritheciis 2060
aggregatis superficialibus subglobosis, setis rigidis, fuscescentibus tectis papillatis; ascis clavatis, octosporis; sporidiis inordinatis, ellipticis fuscis, continuis.

Hab. in ligno emortuo, New Zealand Australiæ (COLENZO).

45. **Rosellinia spinosa** Harkn. New Calif. Fungi p. 22 — Peritheciis 2061
superficialibus, gregariis, globosis, 300μ . diam., setis numerosis, flaveolis, sæpe ramosis, $200-300 \approx 18-22$, tectis; ascis 8-sporis, cylindraceis, 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.

46. **Rosellinia palustris** Schröter Ueber ein. von R. Fritze Mad. und 2062
Ten. ges. Pilze p. 4. — Peritheciis gregariis, globulosis, carbonaceis, fragilibus, circiter 0,6 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-fusiformibus, inæquilateralibus, $27-35 \approx 10-12$, brunneo-nigris.

Hab. in algis gelatinosis limo tectis in insula Madeira.

47. **Rosellinia belgica** Mout. Ascom. Lieg. II, pag. 3, t. I, f. 6. — 2063
Peritheciis dense sparsis, globulosis, $\frac{1}{3}$ mm., ostiolo obtuso, carbonaceis, rugulosis, atris, pilis simplicibus, $50-150 \approx 5$, pluriseptatis, densiuscule undique hirsutis; ascis teretibus, basi attenuatis, vertice truncatis, 8-sporis, $65 \approx 5$, p. sp. $50-55 \mu$. long.; paraphysibus linearibus, ascos superantibus, septulatis; sporidiis 1-stichis, ellipsoideis, viridi-fuligineis, 2-guttulatis, $8 \approx 4$.

Hab. in ligno putrescente ramorum Quercus prope Liège Belgii.

48. **Rosellinia Kellermanni** Ell. et Ev. Proc. Phil. 1890, p. 227. — 2064

Gregaria, superficialis; peritheciis subglobosis, circ. 250 μ . diam., setulis rectis, 15-22 μ . long., expansis, ostiolo papilliformi excepto, vestitis, demum subglabris; ascis longis, gracilibus, 5-sporis; sporidiis ellipsoideis vel subglobosis, 4-6 \approx 3-4.

Hab. in ligno putri Negundinis aceroidis, Manhattan, Kansas Amer. bor.

49. **Rosellinia Macouniana** Ell. et Ev. in Torr. bot. Club. 1884, p. 74. 2065

— 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).

50. **Rosellinia parasitica** Ell. et Ev. Proc. Phil. 1890, pag. 227. — 2066

Peritheciis gregariis, ligno (cortice secedente) adnatis v. ad v. circa Valsam quamdam sterilem collapsam insertis, ovato-globosis, initio setulis brevibus, nigris tectis, demum iis secedentibus, rugulosis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., vertice levioribus, ostiolo late papillato, obtuso; ascis teretibus, 60-70 \approx 6 p. sporif., copiose paraphysatis; sporidiis 1-seriatis, oblongo-ellipsoideis, subobtusis, atro-brunneis, 7-10 \approx 4-5.

Hab. in truncis emortuis Symphoricarpi occidentalis, Helena, Montana Amer. bor. (F. D. KELSEY). — *R. detonsæ* valde affinis.

51. **Rosellinia Hericium** Schwein. in Herb. Berk. n. 9653 (*Sphæria*), 2067

Cooke Grev. XV, pag. 82. — Peritheciis sparsis, $\frac{3}{10}$ mm. diam., subglobosis, fuscis, breviter hirsuto-pilosis, pilis subulatis, sparsis; ascis cylindraceutis, octosporis; sporidiis ovalibus, continuis, fuscis, 12-14 \approx 8.

Hab. in lignis putridis, Bethlehem Amer. bor.

52. **Rosellinia detonsa** Cooke Grev. XV, p. 82. — Peritheciis spar- 2068

sis vel gregariis, subglobosis, breviter villosis, atris; ascis cylindraceutis, 8-sporis; sporidiis ovato-ellipticis, continuis, fuscis, 10 \approx 7,5.

Hab. in ligno pineo nudo, Albury Jedburgh Scotiæ.

ANTHOSTOMELLA Sacc. — Syll. I, p. 27S.

1. *Eu-Anthostomella* Sacc.

1. **Anthostomella eructans** E. et E. in Fairm. Contr. Myc. West. N. 2069

Y. p. 48, t. IV, f. 7-8. — Peritheciis gregariis, globosis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., pariete crasso, coriaceo, ligno immersis, supra in col-

lum breve, ostiolo erumpente, obtuse conico præditum, abrupte contractis; ascis cylindræis, 75-80 \approx 7, p. sporif., copiose paraphysatis; sporidiis monostichis, brunneis, continuis, subacute ellipsoideis, 10-15 \approx 5-7.

Hab. in ligno decorticato Aceris, Lyndoville N. Y. Amer. bor.

2. **Anthostomella brachystoma** Ell. et Ev. in Bull. Wash. Lab. Nat. 2070
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 Pado Americæ borealis.

3. **Anthostomella Corni** H. Fab. Spher. Vaucl. II, pag. 39, fig. 6. — 2071
Peritheciis sparsis, sub epidermide nigrificata et adhærente nidulantibus, sphæroideis, depressis, $\frac{2}{3}$ mm. latis; ostiolo papillulato, vix prominulo; ascis cylindræis, longe et crasse stipitatis, 8-sporis, 120-150 \approx 7-9, parce paraphysatis; sporidiis oblique monostichis, ovoideis, ut plurimum inæquilateralibus, coffeiformibus, brunneis, 1-2-magni-guttatis, tandem opacis, 13-15 \approx 7.

Hab. ad ramos exaridos Corni sanguinæ, Vaucluse Galliæ.

4. **Anthostomella pholidigena** (Ell.) Berl. et Vogl. Add. p. 44, *Sphæ-* 2072
ria 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 cylindræis, 114 \approx 7, paraphysibus copiosis obvallatis; sporidiis monostichis, acutis, ellipsoideis, continuis, brunneis, 7-10 \approx 5-6.

Hab. in strobilis Pini resinosa, Utah in America boreali.

5. **Anthostomella zonospora** Mout. Not. Ascom. p. 73. — Peritheciis 2073
sparsis, immersis, sphæroideis, matricem non maculantibus, ostiolo emergente, acutiuscule conico donatis; ascis teretibus, pedicellatis, apice truncatis, membrana incrassata, iodo cærulescente, 8-sporis, 170 \approx 15; paraphysibus linearibus, septatis; sporidiis monostichis, fuscis, oblongatis, utrinque obtuse rotundatis, 24-28 \approx 10-12, guttulatis, episporio parce albeolato, in aqua medio spurie septatis seu zonatis.

Hab. in ligno Fagi in Alpibus bavaricis (ex Rehm Ascom. n. 624).

6. **Anthostomella Picconiana** (De Not.) Sacc. *Cryptosordaria Picco-* 2074
niana De Not. MS. cum icone. — Peritheciis grandiusculis, rotundatis omnino demersis, vertice tamen cubilium superficiem clypei-

formi-infuscatam elevantibus, ostiolo mammillari emergente instructis; ascis grandibus, teretibus, 8-sporis; sporidiis in ascis junioribus cylindræis, hyalinis, nucleo rotundo centrali fœtis, deinde ellipsoideis, olivaceo-lutescentibus, uninucleatis, demum ellipsoideis, 16-18 × 10-11, castaneo-fuscis, centro sæpe areola punctiformi, diaphana notatis, nuculisque binis ægre percipiendis instructis, omnino exappendiculatis; paraphysibus filiformibus validis, longis, guttulatis.

Hab. in ramulis plantæ cujusdam, Capo di Noli Italiæ bor. (PICCONE).

7. **Anthostomella Berberidis** Rich. Bull. Soc. Myc. 1888, pag. LIII, 2075 t. V, f. 1. — Peritheciis sparsis, epidermide tumefacta et nigricata velatis, globoso-depressis, atris, ostiolo papillato non vel vix erumpente; ascis cylindricis, brevissime stipitatis, 90 μ . long., 8-sporis; sporidiis 1-stichis, ellipsoideis, utrinque apiculatis, brunneis, 2-3-guttatis, 15 μ . long.

Hab. in ramulis Berberidis vulgaris, Marne in Gallia.

8. **Anthostomella Spartii** Berl. et Vogl. F. Ancon. p. 4, t. I, f. 3. — 2076 — Peritheciis sparsis, epidermide circa ostiolum nigricata tectis, globosis v. globoso-conoideis, duriusculis, $\frac{1}{3}$ mm. diam., apice papilla breviuscula, epidermidem vix perforante præditis, atris; ascis cylindræis, paraphysibus filiformibus cinctis, subsessilibus, apice rotundatis, 100-110 × 12-14; sporidiis octonis oblique vel subrecte monostichis, ellipsoideis, utrinque acutiusculis, muco obvolutis, primo olivaceo-fuligineis, 1-2-guttatis, dein opaco-fuligineis, 14-16 × 8-10.

Hab. in ramulis emortuis Spartii juncei pr. Ancona Italiæ. — Ab *A. Olearum*, cui affinis, differt sporidiis acutioribus, ascis brevioribus, sessilibus.

9. **Anthostomella Scopariæ** H. Fab. Spher. Vaubl. II, pag. 38. — 2077 Peritheciis sparsis, cortici immersis, epidermidem in pustulas cæsi-nigras et vertice poro perexiguo perforatas inflantibus, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; ascis cylindræis, breve et crasse stipitatis, 8-sporis, 105-135 × 40; sporidiis oblique monostichis, ovalibus, flavis et magniguttatis, dein, brunneis, 18-22 × 8-10.

Hab. ad ramulos exaridos Ericæ scopariæ, Vaubluse Gallia. — Var. **Ericæ arboreæ** H. Fab. l. c.: ascis 165 μ . long.; sporidiis flavis, 21 × 10.

10. **Anthostomella Ilicis** H. Fab. Spher. Vaubl. II, pag. 39. — Peri- 2078 theciis sparsis, cortici infossis, epidermide nonnihil inflata et atro-

cinereo inquinata tectis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. latis, ostiolo seu poro minutissimo vix conspicuo; ascis cylindraceutis, brevissime et crasse stipitatis, 8-sporis, $150 \approx 10$ -12; sporidiis oblique monostichis, oblongo-ellipsoideis, utroque polo obtusiusculis, aliis plus minus inæquilateralibus, brunneo-luteolis, pluri-guttulatis, 18-20 \approx 8-10.

Hab. ad Quercus Ilicis ramulos delapsos, Vaucluse Galliæ.

11. **Anthostomella ostiolata** Ell. et Ev. in Torr. bot. Club. 1884, p. 42. 2079

— 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 cylindraceutis, 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 in Amer. bor. — Affinis *A. limitatæ* et *A. intermedicæ*.

12. **Anthostomella pachyderma** Sacc. et Paol. Myc. Malac. n. 87, t. I, 2080

f. 10. — Peritheciis gregariis, globoso-lenticularibus obtuse papillatis, coriaceo-carbonaceis, epidermide nigrificata tectis, nitidulis, 1 mm. latis; ascis cylindricis, breve et crasse stipitatis, 110-120 \approx 18, copiose filiformi-paraphysatis, octosporis; sporidiis oblique monostichis, ellipsoideo-oblongis, 25 \approx 11-12, binucleatis vel pluriguttulatis, fuligineis.

Hab. in corticibus compactis expallentibus, Malacca (SORTECHINI). — Affinis *A. Unedonis*, a qua differt ostiolo perexiguo, ascis brevistipitatis, sporidiis biguttulatis etc.

13. **Anthostomella Oreodaphnes** (Cooke et Hark.) Berl. et Vogl. 2081

Add. pag. 44, *Sphæria Oreodaphnes* Cooke et Harkn. in Grevillea XIII, p. 18. — Sparsa, innata, tecta; peritheciis globosis, epidermide tumidula et leniter nigrificata velatis, vix papillatis; ascis cylindraceutis, octosporis; sporidiis arcte ellipticis, utrinque rotundatis fuscis, 14-15 \approx 4.

Hab. in foliis Umbellulariæ in California (HARKNESS).

14. **Anthostomella? Rhizomorphæ** (Kunze) B. et V. Add. p. 45, *Sphæria Rhizomorphæ* Curr. On the fructific. Sph. n. 370, t. LIX, f. 139. 2082

— Peritheciis.....; ascis amplis, saccatis, sursum rotundatis, basi in pedicellum brevem attenuatis, 138 \approx 46, octosporis; sporidiis stipatis, brunneis vel dein obscuris, sed non opacis, 30-40 μ . longis.

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

15. **Anthostomella Helichrysi** H. Fab. Spher. Vaucl. II, p. 40, fig. 8. 2083

— Peritheciis ut plurimum solitariis, late sparsis, cortici infossis, epidermide nigrificata tectis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. latis, ostiolo conoideo, nunc brevi, nunc rostellato et secundo; ascis cylindraceutis, breve stipitatis, 8-sporis, $125-135 \approx 13$; sporidiis oblique monostichis, ellipsoideis, rufo-brunneolis, dense granulosis, $18-25 \approx 9-11$.

Hab. ad ramos exsiccatos Helichrysi Stæchadis in apricis, Vaocluse Galliæ.

16. **Anthostomella africana** (Kalchbr. et Cooke) B. et V. Add. p. 45, 2084

Sphæria africana Kalch. et Cooke in Grevillea. — Sparsa, caulicola, erumpens; peritheciis subglobosis, atris, nitidis, pertusis, semiemersis; ascis cylindraceutis; sporidiis uniseriatis amygdalæformibus, atro-fuscis, opacis, $22-32 \approx 12-15$.

Hab. in caulibus herbaceis in Africa australi.

17. **Anthostomella Ludoviciana** Ell. et Langl. Proc. Phil. 1890, p. 228. 2085

— Peritheciis gregariis, epidermide nigrificata, ostiolo papilliformi pertusa, tectis, $140-170 \mu$. diam.; ascis $50-55 \approx 3-3,5$, cylindraceutis, paraphysatis; sporidiis oblongo-ellipsoideis, brunneis, plerumque 2-guttatis, $4-6 \approx 2-2,5$, monostichis.

Hab. in caulibus emortuis Smilacis, St. Martinsville Louisiana Amer. bor.

18. **Anthostomella phormicola** (Cooke) B. et V. Add. p. 45, *Sphæria* 2086

phormicola Cooke in Grevillea XII, p. 85. — Sparsa, tecta; peritheciis globosis, atris, sub cuticula dealbata nidulantibus, ostiolo impresso; ascis cylindraceutis; sporidiis ovalibus, continuis, atro-fuscis, $90-100 \approx 7$.

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

19. **Anthostomella Rusci** H. Fab. Sphér. Vaocl. II, pag. 40, f. 7. — 2087

Peritheciis sparsis vel gregariis, cortici nidulantibus, epidermide nitide nigrificata tectis, sphæroideis, $\frac{1}{3}$ mm. latit.; ostiolo vix prominulo, coronulâ epidermicâ expallente cincto; ascis cylindraceutis, breve et crasse stipitatis, 8-sporis, $135 \approx 10$; sporidiis oblique monostichis, ovoideis, aliis regularibus, aliis inæquilateralibus, opaco-fuligineis, $12-16 \approx 7-9$.

Hab. ad caules putrescentes Rusci aculeati in umbrosis densissimis silvarum, Vaocluse Galliæ.

20. **Anthostomella leucobasis** Ellis et Martin Amer. Nat. 1882, p. 809. 2088

— Peritheciis globosis v. subellipsoideis $\frac{1}{3}$ mm. circ. diam., matrici immersis, subaggregatis, epidermide supra perithecia plus v. minus nigrificata, maculisque linea saturatiore, non tamen penetrante circumscriptis; ostiolis obtusis, epidermidem vix perforau-

tibus; ascis cylindræis, 75-80 μ . longis; sporidiis monostichis, ellipticis, fuligineis, 11-13 \times 5,5-7.

Hab. in petiolis *Sabal serrulatæ*, Green Cove Springs in America boreali (MARTIN).

21. **Anthostomella palmicola** (Auersw.) Rabenh. Fungi eur. n. 2522 2089
in Barbey Fl. Sard. Comp. p. 205. — Peritheciis globosis, minutissimis, hypophlœoideis, sparsis, membranaceis, e cellulis minutis contextis (astomis); ascis creberrimis, cylindricis, 8-sporis, paraphysibus filiformibus, mucosis obvallatis; sporidiis uniseriatis, ovalibus, integris, fuscis, maturis impellucidis.

Hab. in foliis *Chamæropis humilis* prope Alghero Sardinia.

22. **Anthostomella melanosticta** E. et E. Journ. Myc. 1887, p. 44. — 2090
Peritheciis gregariis vel sparsis, folii parenchymate immersis, ostiolo punctiformi nigro emergente, epidermide non atrata; ascis cylindricis, 80-110 \approx 12-15; sporidiis subdistichis, elongato-ellipsoideis subinæquilateralibus, brunneis, continuis, 19-22 \times 7-9, strato tenui hyalino initio obvolutis.

Hab. in foliis emortuis *Sabal Palmetto*, Louisiana Amer. bor. (LANGLOIS).

23. **Anthostomella minor** E. et E. Journ. Myc. 1887, p. 43. — 2091
Peritheciis sparsis, $\frac{1}{3}$ mm. diam., subglobosis, supra subconico-prominentibus, ostiolo acutiuscule papillato; ascis linearibus, 65-75 \times 5; sporidiis uniseriatis, opacis, 2-3-nucleatis, subinæquilateralibus, 7-8 \times 2,5-3.

Hab. in petiolis *Sabal serrulatæ*, Florida Amer. bor. (CALKINS). — Matrix loco fungilli tenuiter nigro incrustata; an ex fungillo?

24. **Anthostomella paraguayensis** Speg. Fung. Guar. Pug. 1, n. 188. 2092
— 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 cylindræis, apice truncatis vel obtuse rotundatis, basi modice attenuato-stipitatis, 60-75 \approx 4-6, octosporis, aparaphysatis; sporidiis recte vel oblique monostichis e fronte ellipsoideis, rarius subinæquilateralibus, 10 \approx 5, e latere compressis, 2,5-3 μ . cr., utrinque rotundatis, non vel 1-2-crasse guttulatis, obscure fuligineis.

Hab. ad culmos dejectos *Sacchari* officinarum in cultis prope Guarapî Brasilîæ.

25. **Anthostomella Bromi** Rich. Cat. Champ. Marn. n. 1165. — Dif- 2093
fert ab *A. Tomico* peritheciis magis prominentibus, ellipsoideis, sporidiisque cymbiformibus, incurvis, 1-guttatis.

Hab. in culmis *Bromi asperi* in silva inter St. Amand et St. Lumier, Marne Galliæ.

26. **Anthostomella Secalis** Karst. Rev. Myc. 1890, n. 47. — Peri- 2094
theeciis sparsis, innatis, epidermide non nigrificata tectis, sphæroides, atris, 0,3 mm. diam., ostiolo prominulo, hemisphærico v. conoideo-ovoideo, poro pertuso; ascis cylindræis, octosporis; sporidiis monostichis, ovalibus, utrinque acuminatis, sæpe inæquilateralibus, 1-guttatis, dilute brunneis, 24-26 = 11-13.

Hab. ad culmos putrescentes *Secalis* in Gallia (P. HARIOT).

27. **Anthostomella Calamagrostidis** Brun. Mat. myc. Saint. pag. 17. 2095
Anth. Elymi Brun. Champ. Saint. V, pag. 1. — Peritheciis sparsis, matrice omnino innatis, globulosis v. subglobosis, ostiolo obtusulo perforato tantum erumpente et epidermide atrata tecto; ascis subsessilibus, teretibus, 120 = 17, octosporis; sporidiis monostichis, ovoideo-oblongis, æquilateralibus, non guttulatis, fuligineis, 20-22 = 10-12.

Hab. in foliis emortuis *Calamagrostidis arenariæ*, Saint-Palais-sur-mer Galliæ.

2. *Entosordaria* Sacc.

28. **Anthostomella tersa** Sacc. in Mout. Not. Ascom. p. 73. — Pe- 2096
ritheciis gregariis, globosis, $\frac{1}{2}$ - $\frac{2}{3}$ mm. diam., epidermidem pustulatim elevantibus sed in ligno denudato quoque incolentibus, minute papillatis; ascis filiformi-paraphysatis, teretibus, stipitatis, 8-sporis, 110 μ . long., p. sp. 85 = 9, apice membrana incrassata iodo cœrulescente; sporidiis 1-stichis, ellipsoideis, plus minus inæquilateralibus, 13 = 7, in polo inferiore breve hyalino appendiculatis, 2-guttulatis.

Hab. in ramo putrescente *Salicis* pr. Liège Belgii.

29. **Anthostomella Magnoliæ** E. et E. Journ. Myc. 1888, p. 122. — 2097
Peritheciis gregariis, hypophyllis immersis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam. subprominentibus, epidermide nigrificata, ostiolis papilliformibus pertusa tectis; ascis cylindræis, 75-85 = 5-6, aparaphysatis; sporidiis monostichis, oblongo-ellipsoideis, pallide brunneis, 2-3-guttatis, 7-

8 = 3-4, supra apiculo obtuso, hyalino, circ. 1,5 long., subtus in apiculum subbreuiorem productis.

Hab. in foliis dejectis Magnoliæ, St. Martinsville Louisiana Amer. bor.

30. **Anthostomella Cacti** (Schw.) Sacc., *Sphæria* Schw. — Syll. II, 2098 p. 425. Cfr. Journ. Mycol. 1888, p. 65. — Asci clavato-cylindracei, 40 = 10 p. sp., brevissime pedicellati; sporidia disticha, ellipsoidea v. obovato ellipsoidea, ovata, opaca, zona media pallidiore pseudoseptata, infra hyalino-subappendiculata, 12-15 = 4-4,5.

Hab. in *Opuntia Engelmanni*, Los Angeles Californiæ (SCRIBNER).

31. **Anthostomella Molleriana** Winter in Hedwigia 1886, p. 101. — 2099 Peritheciis sparsis, immersis, globosis, ostiolo brevi, conico epidermidem circa ostiolum parum infuscatam perforantibus, atris, glabris, 250-310 μ . latis; ascis subclavatis vel oblongo-cylindraceis, sessilibus, vertice rotundatis, 8-sporis, 90-96 = 16-18; sporidiis in parte inferiore monostichis, in superiore parte distichis, oblongo-cymbiformibus, inæquilateralibus vel parum curvatis, utrinque rotundatis, appendicula brevi, subconica præditis et muco hyalino, anguste obvolutis, guttulis 2 oleosis repletis, olivaceo-fuscis, 17-21 = 7; paraphysibus indistinctis.

Hab. in foliis aridis Musæ in insula S. Thomè Afr. occ.

32. **Anthostomella sabalensioides** Ell. et Mart. Amer. Nat. 1882, 2100 p. 810. — Peritheciis sparsis, minutis, $\frac{1}{4}$ mm. diam., globosis tectis, ostiolo punctiformi brevissimo epidermidem vix perforante; ascis elongatis, 75-80 = 7 $\frac{1}{2}$ -9, aparaphysatis; sporidiis biseriatis, elliptico-fusiformibus, flavescens, utrinque appendiculatis stratoque mucoso obvolutis, 13-15 = 3 $\frac{1}{2}$ -3 $\frac{3}{4}$.

Hab. in petiolis *Sabal serrulatæ*, Green Cove Springs Amer. bor. (Doct. MARTIN). — Appendiculæ mox evanescentes. — Ad *Anthostomellam Closterium* (B. et C.) Syll. p. 187, adde: Sec. Peck 40 Rep. sporidia matura colorata, 12-15 μ longa, utrinque appendiculata.

33. **Anthostomella hemileuca** Speg. F. Guar. II, n. 75. — Maculis 2101 nullis vel toto folio pallescente; peritheciis hinc inde sparsis vel laxissime 3-10-aggregatis, epiphyllis, parenchymate immersis, epidermide vix nigrefacta arctiuscule adnato-tectis, lenticularibus minutis, 120-150, ostiolo papillæformi vix evolutæ ac non vel vix subexserto coronatis, atris coriacellis, contextu indistincto; ascis cylindraceis apice rotundatis, deorsum in pedicellum breviusculum

crassiusculum attenuatis, $150 \approx 10-14$, aparaphysatis, octosporis; sporidiis oblique monostichis, e fronte ellipticis utrinque acutiuscule rotundatis, $20-24 \approx 8-10$, e latere elliptico-dimidiatis, parte deficiente segmento isomorpha mucoso hyalino substitutis, ad extremitatem inferam caudula subconoidea, $4-5 \approx 1-2$, hyalino-mucosa auctis.

Hab. ad folia dejecta ac putrescentia Cocos australis in montanis Sierra de Peribebuy vocatis Brasiliæ.

34. **Anthostomella ammophila** (Ph. et Pl.) Sacc. *Sphæria ammophila* Ph. et Pl. Grev. X, p. 73, t. 158, f. 5. — Peritheciis immersis, majusculis, 2-3 hinc inde confertis epidermideque nigro-circumscripta velatis; ostioliis minutis, punctiformibus; ascis cylindraceis $80 \approx 8-10$; sporidiis octonis, ovoideis, monostichis, atro-fulgineis, $8-10 \approx 5-6$, utrinque appendicula tenui hyalina auctis.

Hab. in *Ammophila arundinacea* pr. Norfolk Britannia.

35. **Anthostomella cymbisperma** Wint. Exot. Pilze IV, pag. 11. — 2103

Peritheciis sparsis, immersis, ab epidermide circa ostiolum nigrificata semper tectis, globosis, basi applanatis, $300-320 \mu$. lat., ostiolo papilliformi prominulis, atris, membranaceis; ascis cylindraceis, deorsum in stipitem brevem attenuatis, 8-sporis, $90-98 \approx 9$; sporidiis monostichis, crasse cymbiformibus seu ovatis et valde inæquilateralibus, utroque fine rotundatis et apiculo hyalino, brevissime conico ornatis, mucos hyalino obvolutis, $10-11 \approx 7$.

Hab. ad folia emortua Graminum, Caput Horn Amer. austr. (HARIOT) et in Statem Island et Fuegia (SPEGAZZINI). — Teste Speg. F. Fueg. n. 174: formæ 2 distinctæ adsunt: a) sporidiis mucos destitutis, appendice supera non vel vix conspicua; b) sporidiis mucos obvolutis, appendice supera inferam fere æquante.

36. **Anthostomella fuegiana** Speg. F. Fueg. n. 175. — Maculis pal- 2104
lescentibus, indeterminatis; peritheciis solitariis, sparsis vel hinc inde 2-3-subgregariis, immersis, epidermide nigrificata arcteqe adnata tectis, globoso-lenticularibus, $350-400 \mu$. diam., ostiolo non vel vix papillato donatis, coriacellis, atris, contextu subopaco, parum distincto; ascis cylindraceis apice truncato-rotundatis, crassissime tunicatis, deorsum breviter attenuato-pedicellatis, $90-105 \approx 5-7$, octosporis, paraphysibus filiformibus, guttulatis, parvis obvallatis; sporidiis oblique monostichis vel subrecte distichis, fusiformibus, leniter inæquilateralibus, $20-24 \approx 3,5-4,5$, utrinque attenuato-acutissimis, fulgineis, grosse 1-guttulatis, inferne caudula hyalina brevi acuta auctis.

Hab. in foliis ac calamis emortuis Rostkoviæ grandifloræ prope Shámmacus Beagle channel Fuegiæ. — Obturaculum ascorum iodii ope pallide cœrulescit.

ANTHOSTOMA Nits. — Syll. I, p. 293.

1. *Eu-Anthostoma* Sacc.

1. **Anthostoma giganteum** Speg. F. Fueg. n. 182. — Peritheciis hinc 2105 inde laxe gregariis vel densiuscule sparsis, ligno immutato, extus albescenti-canescente, ostiolis ac sporidiis exsurgentibus nigro punctato, vix immersis, globosis, giganteis, 1,2-1,8 mm. diam., extus cinerescentibus, glabris, membranaceo-coriacellis, contextu dense parenchymatico, subindistincto, facillime integris ex alveolo extrahendis, ostiolo crassiusculo, conico, carbonaceo, atro, matricis superficiem perforante ac non vel vix exsertulo; ascis cylindræis, apice nonnihil subcoarctatis, truncatis, bifoveolatis, postice breviuscule attenuato-pedicellatis, e latere compressis, 150-160 \times 12-14 \approx 3-4, octosporis, paraphysibus filiformibus obvallatis; sporidiis oblique monostichis, e fronte ellipticis vel ovoideis, utrinque obtusis, grosse 1-nucleato-areolatis, e latere valide compressis, 25-26 \times 8-10 \approx 2,5-3, opace fuligineis, inferne papilla minuta hemisphærica, hyalina appendiculata; iodii ope nulla.

Hab. in truncis dejectis cariosis prope Port Cook in Staten island Fuegiæ.

2. **Anthostoma lophiostomoides** Speg. F. Fueg. n. 180. — Peritheciis 2106 sparsis, ligno immutato, vix extus canescenti-infusato immersis, globosis, subgiganteis, 900-1200 μ . diam., atris membranaceis, alveoli parietibus arcte adnatis, contextu indistincto olivaceo; ostiolo vix matricis superficiem attingente non exserto nonnihil umbilicato, a textura ligni subcompressa et facie fere lophiostomidea; ascis cylindræis, antice obtuse rotundatis, postice breviuscule crasseque stipitatis, 140-150 \times 7-7,5, paraphysibus granulosis, filiformibus densiuscule obvallatis; sporidiis recte monostichis, ellipticis v. sæpius elliptico-subfusoides, 16-17 \times 5, utrinque obtuse acutatis, non vel vix subinæquilateralibus, primo granulosis v. 2-guttulatis, hyalinis, dein grosse 1-nucleatis, fuligineis.

Hab. vulgatum ad ramos truncosque decorticatos putrescentes per totam Fuegiam.

3. **Anthostoma Alaculuf** Speg. F. Fueg. n. 179. — Peritheciis sparsis 2107 v. laxe hinc inde 3-5-gregariis, ligno fere immutato, vix in superficie sordide ac irregulariter fuscescente immersis, globosis, gi-

ganteis, 1,2-1,5 mm. diam., membranaceis, atris, opacis, contextu parum distincto, ostiolo vix papillato, non exserto, carbonaceo donatis, parietibus alveoli arcte adnatis, ascis cylindraceutis, apice obtuse rotundatis, postice longiuscule attenuato-pedicellatis, p. sp. 160-180 \approx 8-9, ped. 70-80 \approx 3-5, octosporis, paraphysibus filiformibus densiuscule obvallatis, iodi ope nulla; sporidiis recte monostichis, ellipticis, sæpius nonnihil inæquilateralibus, utrinque obtusis, 18-20 \approx 8, in sicco sæpe e latere compresso-scutellatis, opace fuliginis.

Hab. in ligno decorticato Libocedri? pr. Port Tom in Ski-ring island Fuegiæ.

4. **Anthostoma leucostomum** Berl. Pug. F. Fior. p. 10, t. II, f. 4. — 2108

Peritheciis sparsis v. 2-6 coacervatis, epidermide non nigrescente pustulatim inflata tectis, basi ligno insculptis, ostiolo lato, longiusculo, vix prominulo, pertuso, præditis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., disco rotundato, farinaceo, niveo, latiusculo, ab ostiolo nigro punctato; ascis cylindraceutis v. cylindraceuto-clavatis, paraphysibus filiformibus, copiosis, guttulatis cinctis, sursum rotundatis, basi in stipitem brevissimum, nodulosum abeuntibus, 140-150 \approx 12-14, 8-sporis; sporidiis plerumque oblique v. recte monostichis, raro sursum distichis, fuscoide-oblongis, utrinque acutiusculis rotundatisve, crasse 1-2-guttatis v. pluriguttatis, 24-26 \approx 10, fuliginis.

Hab. in ramulis corticatis emortuis plantæ arboreæ cujusdam pr. Firenze Italiæ. — *A. cubiculari* subaffine.

5. **Anthostoma endoxyloides** Mout. Bull. Soc. Bot. Belg, 1886, p. 146, 2109

t. IV, f. 8-9. — Stromatibus immersis, striæformibus, plus v. minus elongatis, ligni superficie paullo denigrata, ex substantia ejus vix mutata formatis, nec nigro-limitatis; peritheciis profunde immersis, monostiche aggregatis, ovoideis, 500 \approx 400-450, coriaceis, collo longiusculo, 250 μ . crasso, superne rotundato, poro minuto pertuso, 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 appendicula hyalina, verruciformi auctis, inæquilateralibus vel curvulis, 10-13 \approx 3,5-4.

Hab. in ligno putrido, Beaufays in Belgio.

6. **Anthostoma flavo-viride** Ell. et Holw. in Arthur Rep. bot. Min. 2110

nes. 1886, p. 32. — Stromatibus effusis, tenuibus, per 5 cm. long. et 1,2 cm. lat. v. ultra extensis, hyphis viridi-flavis, brevibus, coni-

dia subglobosa, subhyalina gignentibus, dein nudis et nigris tectis, linea nigris circumscriptis; peritheciis membranaceis, nigris, globosis, $\frac{1}{3}$ mm. ligni substantia vix mutata immersis, collo angusto, ostiolo papilliformi, nigro præditis; ascis 120 μ . long., p. sp. 75 \approx 6-7; sporidiis monostichis, anguste ellipsoideis, continuis, primitus subhyalinis, dein nigris, 10-12 \approx 4-4.5.

Hab. in ligno dejecto Populi tremuloidis, Vermilion lake Amer. bor.

7. **Anthostoma foveolare** Sacc. et Berl. Myc. Sib. p. 10, f. 9. — Stro- 2111
mate late effuso, ligni superficiem nigrificante, maculas subinde perithecium singulum complectentes, nigras formante, crustaceo; peritheciis $\frac{1}{2}$ mm. diam., globosis, atris subcarbonaceis, in collum prominulum perforatum vix apice incrassatum productis, ligno infossis vel omnino immersis sed semper parum protuberantibus; ostiolis exertis, punctiformibus, nigris; ascis cylindræis in stipitem brevem abeuntibus, paraphysatis foveolatisque, 90 \approx 8, octosporis; sporidiis oblique monostichis, ovoideis, parum inæquilateralibus, subinde utrinque attenuatis, 10-12 \approx 5-6, guttulatis, rufo-fuligineis.

Hab. in ligno emortuo subputrescente Salicis in silvis prope Mont. Kortus Sibiricæ (MARTIANOFF). — Perithecia demum secedentia et foveolas in ligno relinquuntia.

8. **Anthostoma ambiguum** H. Fab. Sphér. Vaubl. II, pag. 40, fig. 9. 2112
— Peritheciis late sparsis modo 2-3 coalitis, modo solitariis, lignum denudatum et atro-inquinatum incolentibus, globosis, immersis, pustulas hemisphæricas fibris ligneis obteatas efformantibus, ostiolo brevissimo, papillato, $\frac{2}{3}$ -1 mm. diam.; ascis cylindræis, breve stipitatis, 8-sporis 180-200 μ . longis; sporidiis monostichis, ovalibus, utrinque acutiusculis æquilateralibus vel inæquilateralibus, fusco-brunneis, multi-guttatis, 28-34 \approx 11-14.

Hab. ad ramos exaridos Pistaciæ Terebinthi, Vacluse Gallicæ. — *Anthostomellæ*, ob perithecia subinde solitaria, proxima.

9. **Anthostoma stomaticum** (Cooke) Berl. et Vogl. Addit. Syll. pag. 47, 2113
Botryosphæria stomatica Cooke in Grev. XIII, p. 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. (SCHWEINITZ).

10. **Anthostoma infernale** H. Fab. Sphér. Vaubl. II, p. 41. — Stromate 2114

superficiali, indeterminato, latissime effuso, opaco-atro, lignum denu-
datum nigrificante ac tanquam in carbonem mutante; peritheciis
approximatis, in ligno fracido et immutato plus minus alte infos-
sis, $\frac{2}{3}$ -1 mm. latis, ostiolis crassis, breve papillulatis; ascis para-
physibus tenuissimis circumvallatis, cylindræis, longe et sensim
stipitatis, 8-sporis, 120-150 μ . longis; parte sporif. 80 \approx 6; spori-
diis monostichis, oblongo-lanceolatis vel subfusoidæis, sæpe inæ-
quilateralibus, opaco-brunneis, 9-12- \approx 4-5.

Hab. ad caudices annosos et subterraneos Oleæ europææ,
Vaucluse Galliæ. — Ligni superficiem interdum usque ad metri
spatium nigrificat.

11. **Anthostoma Pamphilianum** Sacc. et Cub. F. Rom. n. 22, f. 3. — 2115

Peritheciis late gregariis, peridermio extus subimmutato, intus vero
lignoque infrapposito varie obsolete atrato immersis, globosis, cras-
siusculis, 0,5 mm. diam., solitariis, rarius binatis; ostiolo breviter
erumpente, majusculo, obtuso, nigro, cruciatim vel radiatim rimo-
so, $\frac{1}{3}$ mm. diam.; ascis clavatis, crassiuscule stipitatis, apice ob-
tusulis, p. sp. 60 \approx 8-9, stipite 18 μ . long., 8-sporis; paraphysibus
spuriis, filiformibus, guttulatis; sporidiis distichis, cylindræis, cur-
vis, utrinque rotundatis atque minute 1-2-guttulatis, olivaceo-fu-
ligineis, 18-20 \approx 4,5-5.

Hab. in ramis emortuis Ulmi v. Quercus, Villa Doria-Pam-
phili Romæ (CUBONI et CELOTTI).

12. **Anthostoma melanotes** (B. et Br.) Sacc. Syll, I, p. 294 * **A. longia-** 2116

scum Berl. Fungi Moric. fasc. II, t. 3, f. 1-7. — Stromate cru-
staceo, effuso, ligno parum prominenti vel ejus superficiem nigri-
ficante ac maculas elongatas aut subrotundas, sæpe confluentes, fu-
scescentes vel tandem nigricantes, opacas efficiente, postremo in-
tus quoque nigrolimitato; peritheciis majusculis, depresse globo-
sis, omnino in subiculo furfuraceo, flavido immersis, laxè sparsis,
ostiolo exserto, minutissimo, integro, conico vel hemisphærico, ni-
tidulo, tandem perforato instructis; ascis cylindræis, 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, ob-
tuse fusiformibus vel ovoideis, rectis vel rarius nonnihil inæquila-
teralibus, 10-12 \approx 5, fuligineis, sæpe biguttulatis.

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

13. **Anthostoma chionostomum** Speg. Fung. Guar. Pug. I, n. 189. — 2117

Stromate longe lateque effuso, cortice non vel vix mutato innato parumque manifesto, intus atro; pertheciis 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, subtereti, matricis stromatisque superficiem attingente, non vel vix exserto ac corticem subpustulatim elevante, disculum parvulum, centro pertusum, niveum exserente; ascis cylindraceutis, antice obtuse rotundatis atque crassissime tunicatis perforatisque, postice breviter attenuato-pedicellatis, 150-180 \approx 15-20, paraphysibus crassiusculis guttulatis, raris, obvallatis, octosporis; sporidiis oblique monostichis, ellipticis, 26-34 \approx 12-20, utrinque rotundatis, rectis vel inæquilateralibus, plus minusve intense ac subopace fuliginis.

Hab. ad corticem putrescentem arborum in silvis subvirginis prope Guarapi Bras. — Species pulcherrima, corticem ostioli candidis perforantibus, mox dignoscenda!

14. **Anthostoma saprophilum** E. et E. Journ. Mycol. 1887, p. 43. — 2118

Stromate effuso ligni superficiem nigrificante, intus zona nigra circumscripto, maculas subelongatas, subconfluentes, atras, 0,5-1 cm. extensas efformante; peritheciis membranaceis, globosis, 0,3-0,5 mm. diam., ligno immersis et inæqualiter 6-10-aggregatis, ostiolo hemisphærico-conico prominulo, poro minuto pertuso non radiato-sulcato; sporidiis ellipsoideis, pallide brunneis, 1-2-nucleatis, monostichis, 5-6 \approx 2,5-3.

Hab. in ligno putri Aceris, Newfield N. J. Amer. bor. — Ab affini *A. melanote* differt sporidiis multo minoribus.

15. **Anthostoma fuegianum** Speg. F. Fueg. n. 181. — Peritheciis spar- 2119

sis v. hinc inde laxe gregariis, ligno fere immutato, extus vix dealbato, intus linea stromatica fuscescente notato, immersis, globulosis, majusculis 450-600 μ . diam., atris, globulosis, coriacellis, alveoli parietibus arcte adnatis, contextu subindistincto, olivaceo, ostiolo conico, parvulo, matricem perforante et ejusdem superficiem vix attingente, carbonaceo, tenui coronatis; ascis cylindraceutis, paraphysatis, octosporis, mox diffluentibus; sporidiis monostichis, elliptico-elongatis, non vel vix inæquilateralibus utrinque acutiuscule rotundatis, 20-22 \approx 6,5-7,5, opace fuliginis.

Hab. in palo vetusto decorticato Mayteni in Picton island Fuegiæ. — Species difficillime perspicua, vix maculis canescentibus indeterminatis, parvulis (sed non semper), hinc inde minute nigropunctatis detegenda, iodi ope nulla.

16. **Anthostoma urodelum** Speg. F. Fueg. n. 183. — Peritheciis densiuscule sparsis ligno vix mutato friabili, extus canescenti-dealbato hinc inde ostiolorum caussa nigro-punctato immersis, globosis majusculis, 350-450, alveoli parietibus arcte adnatis, atris glabris coriacellis, contextu indistincto fuligineo opaco, ostiolo crassiusculo brevi atro carbonaceo matricis superficiem attingente non vel vix prominulo; ascis cylindraceutis, apice obtuse rotundatis non vel vix incrassatulis, basi breviter attenuato-pedicellatis p. sp. 95-120 \approx 4-5, ped. 20-25 \approx 3, octosporis, dense paraphysatis; sporidiis cylindraceuto-elongatis non v. vix curvulis, superne acutiuscule rotundatis, inferne rotundato-subtruncatis, appendice pusilla hemisphærica hyalina auctis, opace fuligineis, 12-13 \approx 2-2,5, e latere non vel vix compressulo non vel grosse 1-guttulatis.

Hab. in ramis decorticatis putrescentibus Fagorum non rarum per Fuegiam totam.

17. **Anthostoma mortuosum** (Ellis) Sacc. *Sphæria mortuosa* Ellis Torr. Bot. Cl. 1882, pag. 73. — Peritheciis sparsis, depressis, epidermide elevata, nigrificata tectis, ostiolo brevi cylindraceuto erumpente; ascis cylindraceutis, sessilibus, 100 \approx 10; sporidiis monostichis, late navicularibus, 1-2-nucleatis, obscure fuligineis, 13-17 \approx 7,5.

Hab. in basi culmi vetusti Andropogonis, rarius in caule Polygoni et Eupatorii, New Jersey Amer. bor. — *Anthostomati italico* Sacc. et Speg. affine.

2. *Fuckelia* (Nits.) Sacc.

18. **Anthostoma allantosporum** Speg. F. Fueg. n. 178. — *Fuckelia*? pustulis ligno denudato innatis, elongato-linearibus, sæpius subseriatis, pulvinatulis, majusculis 1-2 cm. long., 2-3 mm. lat., 0,5-1 mm. crass., superne applanatis, sæpius ostiolis exasperatis; stromate e ligni substantia non vel vix mutata efformato, extus sordide fuscescente, intus pallescente, linea nigra stricta late per matricem excurrente limitato; peritheciis stromate profundiuscule immersis, monostichis dense constipatis, 20-40 in quoque acervulo globosis majusculis, 500-700 μ . diam., membranaceo-coriacellis, contextu subindistincte parenchymatico, ostiolo cylindraceuto crassiusculo, atro, carbonaceo, obtuso, ruguloso, stratum stromaticum superpositum 0,5-1 mm. crass., perforante ac plus minusve exserto donatis; ascis cylindraceuto-subclavatis, apice obtuse rotundatis, postice longiuscule attenuato-pedicellatis, parte sp. 60-65 \approx 5-8, ped. 25-40 \approx 3, octosporis, aparaphysatis?; sporidiis oblique monostichis

rarius subdistichis, elongato-ellipticis, inæquilateralibus, sæpius fere allantoideis vix medio subincrassatulis, utrinque obtusiusculis et minute 1-guttulatis, 11-15 \approx 4, pallide fuligineis.

Hab. in ramis Fagorum putrescentibus in Fuegia prope Chair island.

19. **Anthostoma insidens** (Schw.) Berl. et Vogl. Add. Syll. p. 47, *Fuckelia insidens* Cooke in Grev. XII, p. 52, *Sphæria insidens* Schw. in Fr. S. Myc. II, pag. 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 uniserialia, elliptica, pallide fusca, 8 \approx 4.

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

20. **Anthostoma Carteri** (Berk. et Cooke) Berl. et Vogl. l. c., *Fuckelia Carteri* Berk. and Cooke in Grevillea XII, p. 51. — Erumpens, hemisphæricum, demum liberum, atrum, compositum, $\frac{1}{2}$ -1 mm. d., stromate corticali primitus fusco, velato; peritheciis tenuibus, membranaceis, subglobosis, immersis, vix papillatis; ascis cylindræis, substipitatis; sporidiis ovalibus, atro-fuscis, 12 \approx 9.

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

21. **Anthostoma phæospermum** (Ellis) Sacc. *Diatrype phæosperma* Ellis Amer. Nat. 1883 febr., p. 195. — Stromate minuto, tuberculiformi, 1 mm. diam., epidermide imperfecte laciniata arcte cincto; peritheciis 6-8, coriaceis, $\frac{1}{3}$ mm. diam., monostichis, stromate albo exceptis lineaque nigra, parum penetrante circumscriptis; ascis 55 \approx 7, parte sporif.; sporidiis subdistichis, cylindræis, curvulis, continuis, fuligineis, 10-12 \approx 3-3,5, utrinque obtusis.

Hab. in ramis emortuis, Decorah Iowa Amer. boreali (E. W. HOLWAY). — Ostiola obtusa, nigra, non prominula, discum brunneum v. ochraceum punctulantia.

22. **Anthostoma? gigasporum** (Cooke et Hark.) Berl. et Vogl. Add. p. 47, *Sphæria gigaspora* Cooke et Hark. in Grev. XIII, p. 18. — Sparsum, subimmersum; tuberculis orbicularibus, elevatis tectis e substantia matricis efformatis; peritheciis globosis, magnis, $1\frac{1}{2}$ -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 Ellisii** Sacc. — Syll. I, p. 308. — Var. **exsudans** Peck 2127

40 Rep. p. 67. — Peritheciis in stromate corticali confertis, tenuibus, angulosis, epidermide pustulatim elevata, irregulariter rupta adnate tectis, ostiolis vix perspicuis vel infra epidermidem nidulantibus; ascis gracillimis, cylindræis, $40 \approx 4$; sporidiis minutis, oblongis, rectis, coloratis, 5μ . long.

Hab. in cortice emortuo Alni incanæ in Elizabethtown Amer. bor.

24. **Anthostoma ontariense** Ell. et Ev. Proc. Phil. 1890, p. 228. — 2128

Stromatibus convexis, $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., plus minus seriatim confluentibus, e corticis substantia immutata constitutis, linea nigra, ligno penetrante circumscriptis; peritheciis in stromate confertis, subglobosis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., pariete crasso, collo angusto, ostiolo subgloboso, profunde 4-sulcato, erumpente; ascis gracilibus 8-sporis, 90-110 μ . long., p. sporif. 75-80 \approx 8-10, copiose paraphysatis; sporidiis subdistichis, cylindræis, subincurvis, brunneis, 20-26 \approx 4-4,5.

Hab. in ramis emortuis Salicis, London Canada Amer. bor. (F. DEARNESS). — Habitus *Valsæ stellulatæ*.

25. **Anthostoma gastrinoides** Ph. et Pl. Grev. X, p. 71. — Disco 2129

concavo, nigro, stromate nigrescente; peritheciis 8-10, circinantibus, ligno semiimmersis; ascis cylindræis, 80 \approx 8-10, octosporis; sporidiis oblique monostichis, atro-fuligineis, ellipsoideis, 15 \approx 5, initio nucleatis.

Hab. in ramis Viburni, Bristol Britannicæ (BUCKNALL). — *Anth. gastrino* peraffine.

26. **Anthostoma atro-fuscum** (Berk. et Curt.) Berl. et Vogl. Add. 2130

p. 45 *Fuckelia atro-fusca* Berk. et Curt. in Herb. Berk. 9004 et Cooke in Grev. 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.

27. **Anthostoma microstroma** Speg. F. Fueg. n. 176. — *Fuckelia*; 2131

stromatibus ellipticis, 2 mm. long., 1 mm. lat. transversis, pulvinatulis 0,5 mm. crass., truncato-marginatis, superne applanatis atris, glabris, peridermio tectis, subadnatis, non v. vix erumpentibus; peritheciis globulosis 350-400 μ . diam., atris glabris, binis v. ternis in quoque stromate, non v. vix ostiolato-papillulatis; ascis diffuenti-

bus, octosporis, paraphysatis; sporidiis ellipticis v. ovoideis, utrinque obtusis, 18-22 \approx 10-12, monostichis, grosse 1-guttulatis (an areolatis?), opace fuligineis, in senectute longitudinaliter fissis.

Hab. vulgatissimum (sed semper substerile) ad ramos dejectos Fagi betuloidis in Staten island Fuegiæ.

28. **Anthostoma antarcticum** Speg. F. Fueg. n. 177. — Acervulis diffor- 2132
mibus, pulvinatulis 3-7 mm. diam., sparsis v. gregariis, sæpe confluentibus, cortice immersis, stromate e substantia corticali parum mutata infuscata efformato, epidermide sublevata tectis v. denudatis; peritheciis majusculis, globosis, 400-500 μ . diam., stromate immersis, 3-7-aggregatis atris coriaceis, ostioliis papillatis subconiventibus parum exsertis carbonaceis crassiusculis coronatis; ascis cylindræo-clavatis, sursum attenuatis, apice truncato-rotundatis, 1-foveolatis, parte spor. 45-50 \approx 6-6,5, deorsum in pedicellum parte sporifera subæquilongum productis, a paraphysatis octosporis, iodi ope nulla; sporidiis oblique monostichis alternato-distichis, oblongo-ellipsoideis, rectis v. curvulis 8-13 \approx 3-3,5 utrinque rotundatis, fuligineis.

Hab. ad ramos dejectos putrescentes Fagi betuloidis in Staten island prope Port S. John Fuegiæ. — Species notis per plurimis *A. gastrino* affinis.

29. **Anthostoma anceps** Berl. et F. Sacc. Contr. Myc. Lus. p. 3, t. 83, 2133
f. 2. — Stromatibus superficialibus, forma variis, tumidis, subinde pulvinatis, atris, rugosis, asperulis, subinde rimulosis, intus albis; peritheciis majusculis, globosis, plus minusve compressis, non papillatis, circ. $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., subcoriaceis; ascis cylindræis, breviter stipitatis, 90-100 \approx 10-12, 8-sporis; sporidiis oblique monostichis, oblongis, sæpe inæquilateralibus, utrinque acutiusculis, 18-22 \approx 6-9, fuligineis, initio crasse 1-guttatis.

Hab. in ramis corticatis *Ceanothi* africani in Horto Botanico Lusitanicæ.

30. **Anthostoma amplisporum** (Cooke) Berl. et Vogl. Add. Syll. p. 46, *Fu-* 2134
ckelia amplispora Cooke in Grevillea XII, p. 51. — Stromate diatryoideo, pustulato, peridermio primo tecto, demum stellato-fisso, 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.

31. **Anthostoma eumorphum** Sacc. et Paol. Myc. Malac. n. 89, t. I, f. 11. 2135

— Stromatibus longe lateque gregariis, longitrorsum dense parallelis, innato-erumpentibus, oblongis vel lanceolatis, 2-2½ mm. long. ½-¾ mm. crassis, epidermide arcte appressa cinctis, nigris, ob ostiola prominula minute granulatis; peritheciis in quoque stromate unistratosi, 2-3-seriatis (12-25), globoso-angulosis, papillatis 160-180 μ . diam.; contextu peritheciis ex olivaceo fuligineo, kalii ope succum flavum scatente; ascis jam resorptis; sporidiis oblongis, inæquilateris utrinque obtusiusculis, 16-18 \approx 6-7, fuligineis, 2-guttulatis.

Hab. in culmis emortuis *Bambusæ*? Malacca (SCORTECHINI). — Regularitate et dispositione parallela stromatum species mox distincta.

32. **Anthostoma gastrinum** (Fr.) Sacc. Syll. I, pag. 303. Huc spectat, teste Cooke (Grevillea XII, p. 49) *Sphæria irregularis* Fr. Syst. Myc. II, p. 361, Sowerby t. 374, f. 9, et Sacc. Syll. II, p. 372. — Sec. Cooke ad genus **Anthostoma** pertinerent: *Hypoxyton Blakei* B. et C. (1343), *Hypoxyton Morsei* R. et C. (1441), *Hypoxyton diathrauston* Rehm (1385).

XYLARIA Hill. — Syll. I, p. 309 *).

A. *Xyloglossa* Fr.

1. **Xylaria mascarensis** Cooke in Grevillea XIII, p. 9. — Suberosa 2136 clavæformis, simplex; clavula falcata, æquali, 17 cm. alta, 4 cm. lata, sicca-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 australis** Cooke Grev. 1883, p. 34. — Stromate clavato, 2137 nudo, 12-20 mm. longo, sursum incrassato, obtuso, levi, fusco, ex ostiolis minutissimis obscure punctato, intus albido dein cavo; stipite elongato 35-50 mm. longo, glabro, tenui, 6 mm. cr., nigricante; ascis cylindræis, stipitatis; sporidiis arcte lanceolatis, fuscis, 15 \approx 3.
Hab. in lignis, Endeavour River Australiæ. — Affinis *Xylariæ euglossæ*, sed sporidia diverse formata.
3. **Xylaria holobapha** Berk. in herb. Kew. Cooke Grev. 1883, p. 84. — 2138 Stromate erecto, clavato, rufo, infra in stipitem brevem attenuato; stipite tenui, glabro, æquali; peritheciis globosis, atris, ostiolis pun-

*) Cfr. Cooke *Xyl. and its allies*, cum iconibus permultis (in Grev. 1883).

ctiformibus, planis; ascis cylindræis, stipitatis; sporidiis lanceo-
latis, rectis v. curvulis, fuscis, 20-22 \approx 8,5.

Hab. in truncis, Brasilia, Mexico. — Stroma 50-60 mm. alt.,
clava 25-30 mm. longa, 10 mm. cr.

4. **Xylaria Fockei** (Miquel) Cooke in Grevillea XIII, p. 8, *Sphæria* ²¹³⁹
(Cordiceps) *Fockei* Miquel Fungi Exot. p. 138, *Sphæria Fockei*
Sacc. Syll. II, p. 442. — Stipite cylindrico, nigro, receptaculum el-
lipsoideum v. obovoideum, obtusum superante, intus omnino coria-
ceo-corneo v. carbonaceo, nigrescente, crustula gilvo-albida partim
obducto interque ostiola atra, punctiformia, tenera, subradiatim ni-
gro-punctulato; sporidiis naviculari-ellipticis, acutis, simplicibus.

Hab. in truncis, Surinam.

5. **Xylaria novo-guineensis** Rehm Exot. Pilze p. 298. — Stromate ²¹⁴⁰
erecto, suberoso; clavula ellipsoideo-linguiformi, obtusa, medio
longitudinaliter subcompressa et fissa, extus undulato-rugulosa, gla-
bra, fusca, sensim in stipitem abeunte, intus subpallida, 5 cm. long.,
medio 1,5 cm. lat.; stipite longitudinaliter ruguloso et sinuoso,
fusco, 2 cm. long., 7 mm. lat.; peritheciis monostiche plane im-
mersis, globosis, papillis rotundis, minimis protuberantibus; ascis
evanidis; sporidiis fusoides, subcurvatis, fuscis, continuis, 18-21
 \approx 6-8.

Hab. in Nova-Guinea Oceaniæ (HOLLRUP). — Habitus omnino
X. castoreæ.

6. **Xylaria fuegiana** Speg. F. Fueg. n. 185. — Stromatibus erectis, ²¹⁴¹
gregariis v. sparsis, conoideo-obclavulatis, non v. compressiusculis,
undique fertilibus, 3 cm. alt., 1 cm. lat., 0,5-1 cm. crass., planiu-
sculis, undulatis, non v. vix rugulosis, laxè papillulato-asperulis,
apice acutiusculis, basi subcoarctatulis, intus farctis, lignosis, albis,
extus atris, in juventute subcanescenti-pruinulosis, per ætatem
sæpe pulvere (e sporidiis exsiliantibus) nigro viscidulo inspersis, in-
ferne in stipitem breviusculum subteretem, 1,5 cm. long., 2-2,5
mm. crass., longitudinaliter rugoso-striatum, glabrum, atro-fuscum
productis; peritheciis immersis v. vix prominulis, globulosis, 500-
600 μ . diam., atris, carbonaceis, ostiolo obtuso papillulato; ascis
mox gelatinoso-diffluentibus, octosporis, paraphysatis; sporidiis
cymbiformibus, utrinque obtusis, 10-12 \approx 5, monostichis, primo
grosse 2-guttulatis, dein 1-nucleato-areolatis, opace fuliginis.

Hab. in trunco putrescente *Mayteni?* in Hope harbour Fuegiæ.

7. **Xylaria Berkeleyi** Mont. Ann. scienc. Nat. 1855, III, 104, Cooke ²¹⁴²
Grev. 1883, p. 85. — Stromate erecto, suberoso, atro, cylindrico

clavato, obtuso, papillato, intus albo; stipite gracili, globoso, concolori; peritheciis globosis, numerosis, ostiolis prominulis, asperulis; ascis cylindraceis stipitatis; sporidiis arcte fusiformibus, rectis curvulisve fuscis, 18-22 \times 3-4.

Hab. in lignis in Cayenna.

8. **Xylaria multifida** (Kunze) Cooke Grev. IX, 85, *Sphæria multifida* Kunze, sec. Lév. Ann. scienc. Nat. 1845. III, 45. — Stromate conidifero erecto, furcato-partito palmatoque, albedo; stromate ascigero simplici, erecto, atro, clavato: stipite æquilongo, tenui, atro, glabro (?); peritheciis globosis, atris, prominulis; ascis cylindraceis stipitatis; sporidiis fusiformibus, obtusis inæquilateralibus, fuscis.

Hab. in truncis, Java et Amer. centr. — *Xyl. Hypoxylo* peraffinis et forte varietas.

9. **Xylaria acicularis** (Berk.) Cooke Grev. 1883, p. 85, *Sphæria* (Hypoxylon) *acicularis* Berk. Hook. Journ. 1862, p. 141. — Suberosa, acicularis, simplex, rarissime furcato-palmata, levis; stipite levi v. subplicato, clavula elongata lineari, cum stipite confluenta, crustaceo-laccato atro, farina argillacea velato, reticulato-rimoso; peritheciis globosis, ostiolis prominulis.

Hab. in lignis, Surinam. — Stromata 75-85 mm. long., 2 mm. crass.

10. **Xylaria cordovens** Berk. in Herb. Kew. Cooke Grev. 1883, p. 85. — Stromate erecto clavato, atro, 25-38 mm. longo; stipite tenui, glabro, 12-14 mm. long., clavula utrinque subattenuata, supra obtusa; peritheciis globosis, prominulis; ascis cylindraceis, stipitatis; sporidiis arcte fusiformibus, rectis curvulisve, fuscis, 15-16 \times 4.

Hab. in truncis, Cordova Mexici (SALLE).

11. **Xylaria cylindrica** Lév. in Ann. Sc. Nat. 1863, p. 292. — Sparsa v. subfasciculata; clavula cylindrica obtusa, abrupte stipitata, nigra, 20 \times 8 mm., extrinsecus longitrorsum rimulosa; peritheciis globosis, minime prominulis, ostiolis punctiformibus, distantibus, vix conspicuis; paraphysibus filiformibus, continuis; ascis clavatis; sporidiis octonis, uniserialibus, fusiformi-abbreviatis, obtusis, rectis v. curvulis, subopacis, diametro 4-5-plo longioribus.

Hab. ad truncos, Villeta, Alto del Trigo Novæ Granatæ (LINDIG).

12. **Xylaria Trianæ** Lév. in Ann. Sc. Nat. 1863, pag. 292. — Fasciculata; stromate clavato, sursum obtuso, 4-5 mm. alto, nudo, longitrorsum rimuloso, nigro, intus albo; peritheciis prominentibus,

globosis tuberculoso, ostiolis punctiformibus, vix papillatis; stipite glabro, tenui, nudo, nigro; paraphysibus filiformibus, simplicibus, continuis; ascis clavatis; sporidiis octonis, uniserialibus, elongatis, ventricosus, 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.

13. **Xylaria biceps** Speg. — Syll. I, p. 315. — Var. **botryosa** Rehm 2148
Exot. Pilze p. 300. — Differt a forma normali clavulis in quoque ramulo 4-6 sessilibus, liberis v. subconnatis; ascis subfusoideo-cylindræis, apice valde incrassatis.

Hab. ad truncum in regione Camerunensi Africæ occid. — Var. **microsperma** Speg. Fungi Guar. Pug. I, n. 212. — A typo vix differt sporidiis conspicue minoribus, 8-9 \approx 3-3,5, opace fuligineis. Ad truncos dejectos putrescentes in silvis pr. Guarapî Brasiliæ.

14. **Xylaria Duchassaingii** Rehm Exot. Pilze pag. 296. t. V, f. 2. — 2149
Stromatibus suberosis, erectis; clavulis subrotundis, undulatis, subcompressis, nigro-fuscis, intus pallescentibus, 2 cm. alt., 1,5 cm. lat.; stipite cylindrico, nigro-fusco, recto, glabro, 1 cm. long., 2-3 mm. lat.; peritheciis globosis, monostiche immersis, ostiolis semi-globosis, nigris, poro conspicuo, pertusis subprominentibus; ascis cylindræis, longissimis, 8-sporis; sporidiis fusoideis rectis vel subcurvatis, continuis, crasse 1-nucleatis, fuscis, 18-21 \approx 5-7, monostichis.

Hab. in ligno? Guadalupa.

15. **Xylaria piriformis** Pat. Bull. Soc. Myc. 1888, p. 108. — Clavula 2150
exacte piriformi, pruinosa, alba, sursum rotundata, infra regulariter attenuata nec non rimosa et lineis nigris sulcata, 3 cm. circ. long., 2 cm. cr., pedicello nigro, torto, radiceformi, 4-5 cm., 5 mm. cr. suffulta.

Hab. in ligno putri, Randal d'Atures Venezuelæ.

16. **Xylaria Mellisii** (Berk.) Cooke Grev. 1883, pag. 85, *Hypoxyton* 2151
Mellisii Berk. in Herb. — Stromate coriaceo, atro stipitato, ramuloso; clavulis cylindricis, ellipticis, lanceolatis, furcatis v. difformibus, in ramulis brevibus congestis, intus albis; stipite tenui, flexili, glabro, furcato; peritheciis globosis, atris, ostiolis prominulis, scabris; ascis cylindræis, stipitatis; sporidiis elliptico-lanceolatis, fuscis, 12 \approx 5.

Hab. in corticibus et lignis, in insula S. Helena.

17. **Xylaria Willsii** Berk. in Herb. Cooke Grev. 1883, p. 86. — Car- 2152

nosa, aurantio-fulva, stipitata; clavulis simplicibus vel furcatis, cylindraceis, obtusis, 25-35 mm. long., 3 mm. cr.; stipite levi 25 mm. longo, tenui concolore; peritheciis minimis, brunneis (immaturo), ostiolis planis, punctiformibus; sporidiis non visis.

Hab. in ligno, Santa Fee de Bogota. — *X. persicariæ* Schw. affinis.

18. **Xylaria oligotoma** Sacc. et Paol. Myc. Malac. n. 92, t. I, f. 12. — 2153

Stromatibus teretiusculis, subcompressis, sursum et deorsum attenuatis, basi leniter dilatatis, 2-3 cm. longis, 1-2 mm. crassis, simplicibus v. sæpius 2-3-furcatis, nigris, minute granulatis, glabris et ob perithecia subjecta hinc inde tuberculosis, intus pallidis; peritheciis globosis, remotiusculis, vix $\frac{1}{3}$ mm. diam., nigris, stromate immersis, vix papillatis; ascis cylindricis, 58-64 \approx 4; sporidiis ex oblongo reniformibus, 9-12 \approx 3-4, fuliginis, utrinque obtusiusculis.

Hab. ad truncos Malacca (SCORTECHINI). — Affinis videtur *Xyl. cæspitulosa* Ces., a qua tamen differt stromatibus brevius stipitatis, sursum tantum partitis apiceque sterili vix manifesto.

19. **Xylaria ovispora** Cooke et Mass. Grev. XV, pag. 101. — Stro- 2154

mate coriaceo, atro, stipitato, erecto, sursum furcato palmatoque, deorsum in stipitem glabrum attenuato; ascis cylindraceis; sporidiis subglobosis, fuscis, 6 \approx 5.

Hab. in truncis Daintree River Australiæ (F. MÜLLER). — Sporidiis subglobosis mox dignoscenda.

20. **Xylaria nigripes** (Kl.) Sacc., *Sphæria* (Cordyceps) *nigripes* Kl. 2155

in Linn. VII, p. 203. — Stromate stipitiforimi, carnososuberoso, radicoso, glabro, longitudinaliter rugoso-sulcato, extus intusque atro, simplici aut ramoso, sæpe plurimis ad basin junctis, clavulis testaceis, stuppeis, linearibus, simplicibus, raro implicatis, a stipite usque ad acumen penetratis; peritheciis periphericis, elongatis, atris, ostiolis prominulis, concoloribus; sporidiis minutis, simplicibus, ovatis, nigris.

Hab. ad terram in India orient. (D. WIGHT). — Fungus 7,5-10 cm. alt.; stipes 2,5 cm. alt., 2 mm. cr.; clavulis 5 cm. long., 4 mm. crass.

21. **Xylaria polymorpha** (Pers.) Grev. — Syll. I, p. 309. — * **X. pa-** 2156

chystroma Sacc. Myc. Austr. n. 74, f. 3. — Stromate maximo, 13-15 cm. long., 5 cm. cr., basi simplici durissimo, supra medium in ramos seu digitos 3-4 teretes 2 cm. cr. abeunte, intus pallide ligneo et sursum cavo, extus more typi ubique fertili, atro-fuli-

gineo, ostiolis prominulis punctulato; ascis 100 \approx 6-7; sporidiis 13-15 \approx 5.

Hab. in truncis emortuis, Gracemere Australiæ. — Stromate crassissimo sporidiisque paullo brevioribus a typo differre videtur. — Var. **fastigiata** Speg. Fungi Guar. Pug. I, n. 210: stromatibus basi longe repenti-rhizomorphaideis, simplicibus, tectis, dein erumpenti-exsertis, erectis, brevibus, glabris, fusco-atris, abrupte 8-20 fasciculato-ramosis, ramis subteretibus, 5-10 cm. long., 2-4 mm. cr., apice obtusis, extus nigris, albo-pruinulosis, intus albis. Specimina nondum matura, iterum inquirenda. Ad radices truncorum putrescentium in silvis prope Guarapí Brasilæ.

22. **Xylaria cerebriformis** Cooke Grev. 1883, p. 86. — Magna, sube- 2157
rosa, stipitata, fuliginea; stipite vix 24 mm. l., 8 mm. cr., lignoso, glabro, sulcato, interdum laterali; capitulo subelliptico, 35 \approx 25 mm., profunde sulcato, varie rugoso, cerebriformi, demum leviusculo, intus albo; peritheciis minimis, globosis, atris, confertis; ostiolis minutissimis vix visibilibus, planis; ascis cylindraceis; sporidiis arcte lanceolatis, rectis curvulisve.

Hab. in lignis(?), Andeavour River Australiæ. — *X. lobata* cognata sed perithecia et sporidia tenuiora.

23. **Xylaria Emerici** Berk. in Herb. Kew. Cooke Grev. 1883, p. 86. 2158
— Magna, suberosa, clavata; stromate erecto, glabro, fuligineo, ostiolis minutis punctato, intus griseo-lilacino, demum centro cavo; stipite crasso, brevi, glabro, sursum in clavulam incrassato; peritheciis globosis, atris, nec prominulis; ascis cylindraceis, stipitatis; sporidiis lanceolatis, utrinque obtusis, rectis v. curvulis.

Hab. ad terram(?), Neilgherries Indiæ.

24. **Xylaria herculea** (Miquel) Cooke in Grevillea XIII, p. 9, *Sphæ-* 2159
ria (Cordyceps) *herculea* Miquel Exot. fung. pag. 197, Sacc. Syll. II, p. 442. — Receptaculo coriaceo-corneo, intus albido, extrorsum nigrescente ac carbonaceo-crustaceo, brevissime stipitato, oblongo v. subclavato, obtusissimo v. subattenuato, ostiolis subprominulis nigro-punctato, ceterum griseo fuscidulo; ascis angustis, basi attenuatis, obscuris paraphysibus intermixtis; sporidiis simplicibus, ellipticis, obtusis.

Hab. in trunco denudato Artocarpi incisæ, Paramaribo.

25. **Xylaria cynoglossa** Cooke in Grevillea XII, p. 1. — Umbrina, 2160
linguæformis, 12-15 cm. longa, 3 cm. lata, brevissime stipitata, carne alba; peritheciis congestis, cylindraceis, atris, ostiolis leniter

papillatis, atris; ascis cylindraceutis; sporidiis arcte fusiformibus, rectis curvulisve, fuscis, 16-18 \approx 4.

Hab. in ligno, Tweed River in Australia (?) (R. FITZGERALD).

26. **Xylaria trivialis** Speg. F. Puigg. n. 266. — Stromatibus irregu- 2161
lariter subcylindraceutis, atris, apice obtusis, undique fertilibus fragilissimis, intus cavis, 15-20 mm. lat., 6-10 mm. cr.; stipite plus minusve evoluta, 10 mm. lat.; peritheciis globosis 0,5 mm. diam., glabro suffultis; ascis cylindraceutis, paraphysatis, octosporis, 5-6 μ . cr.; sporidiis navicularibus minutis, fuliginis, 10 \approx 4.

Hab. ad truncos dejectos putrescentes in silvis prope Apiahy Brasiliæ. — Species X. *polymorphæ* affinis, sed stromate atro subcyanescente cavo deflectens; an huc X. *cubensis* Mont.?

27. **Xylaria fragariæformis** Speg. F. Puigg. n. 265. — Atra fragariæformis, inferne sterilis, 12-13 mm. alt., 10 mm. cr., modice pedicellata, intus farcta alba, lignosa; peritheciis globosis vix prominulis, 0,5 μ . diam.; ascis cylindraceutis octosporis, 200-250 \approx 10-14 p. sp., paraphysatis; sporidiis submajusculis, elliptico-navicularibus, fuliginis, 22-24 \approx 9-10.

Hab. ad caudices vetustos cariosos in silvis pr. Apiahy Brasiliæ. — Species pulcherrima X. *polymorphæ* affinis, forma mox tamen dignoscenda.

28. **Xylaria Thwaitesii** Berk. et Cooke in Grevillea XII, pag. 1. — 2163
Suberosa, cylindrica, rigida, fragilis, obtusa, demum cava, 2,5-5 cm. alta, 0,6 cm. crassa; stipite brevi v. obsoleto, subcrasso, glabro; peritheciis carbonaceis, subglobosis, mediis ostioli haud papillatis; ascis cylindricis; sporidiis fusiformibus rectis curvulisve, fuscis, 15-18 \approx 5.

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

29. **Xylaria salmonicolor** Berk. in Herb. Cooke Grev. 1883, p. 86. 2164
— Stromate erecto, suberoso, simplici, clavato-cylindrico, supra obtuso, infra attenuato, atro-brunneo, intus rubente, salmonicolori; stipite brevissimo; peritheciis globosis, minutis, numerosissimis, ostioli planis punctiformibus; sporidiis ignotis.

Hab. in lignis Neilgherries Indiæ. — Clava 35 mm. longa, 6 mm. cr.; stipite 6 mm. long.

30. **Xylaria capensis** (Lév.) Sacc., *Sphæria* (Cordiceps) *capensis* Lév. 2165
Fragm. myc. pag. 141. — Receptaculo elongato-cylindrico, apice obtuso, cinereo, intus albo-floccoso; stipite discreto, nudo, solido, nigro, celluloso-reticulato; peritheciis periphericis, innatis, globosis,

intus atris; ostioli rotundato-conicis prominentibus; ascis filiformibus octosporis, paraphysatis; sporidiis ovalibus, continuis, opacis, minutissimis.

Hab. ad truncos in Capite Bonæ Spei. — Stipes 3-4 cm. long., 2-3 mm. crass.

31. **Xylaria microceras** (Mont.) Berk. — Syll. I, p. 421. — Var. **sulphurella** Rehm Exot. Pilze p. 296. — Stromatibus cæspitose-aggregatis, simplicibus, cylindræis, conicis, obtusis, vix stipitatis, rugulosis, atris, longitudinaliter sulphureo-obductis et atro-striatulis, glabris, 2,5-3 cm. alt., 4-5 mm. lat.; peritheciis globosis, immersis, magnis, in superficie stromatis protuberantibus, papillis nigris vix conspicuis; ascis cylindræis, apice incrassatis, circ. 150 = 6-8, 8-sporis; sporidiis ellipsoideis, subcurvatis, fuscis, continuis, magne 1-guttulatis, 1-stichis, 7-8 = 3,5.

Hab. in insula St. Domingo Amer. centr. (DUCHASSAING).

32. **Xylaria obtusissima** (Berk.) Sacc. — Syll. I, pag. 318. — Var. **Eggersii** Rehm Exot. Pilze p. 297. — Stromatibus cæspitose basi congregatis, erectis, ellipsoideo-clavatis, obtusis, haud stipitatis, medio valde compressis, itaque lamellaribus, subglabris, fusco-nigris, fere corneis, intus atris, 5 cm. long., 2 cm. lat., 3-4 mm. cr.; peritheciis immersis, monostichis, globosis, papillulis rotundis, minimis, nudo oculo vix conspicuis, superficiem stromatis punctulantibus; ascis cylindræis, longissimis, 8-sporis; sporidiis fusoides, subcurvatis, continuis, utrinque 1-nucleatis, fuscis, 9-10 = 3.

Hab. in insula St. Domingo, Amer. Centr. (EGGERS).

33. **Xylaria vernicosa** (Fée) Sacc., *Sphæria* Fée Note s. trois *Sphæria* p. 2, f. 2. — Stromate suberoso, simplici, fragili, duro, toruloso, vernicoso, glaberrimo, apice subacuto; peritheciis parum numerosis, latissimis, distinctis; sporidiis ovoideis.

Hab. supra arborum truncus emortuos, in S. Domingo Americæ centr.

34. **Xylaria ellipsospora** Cooke et Mass. Grev, XVI, p. 33. — Capitulo clavato, obtuso, 12 mm. long., 6 mm. cr., atro, stipite abbreviato, glabro; peritheciis immersis, nec prominulis, ostioli minutis, punctiformibus; ascis cylindræis; sporidiis ellipticis, atro-brunneis, opacis, 16-18 = 8.

Hab. in ligno putri Deep gulley M. Wellington Tasmaniae.

35. **Xylaria regalis** Cooke in Grev. 1883, p. 86. — Suberosa, claviformis, piriformis vel subglobosa, simplex, obtusa, magna, atra, cum stipite brevi crasso nudo confluentis; ostioli prominulis, sub-

nitentibus; peritheciis magnis, globosis, atris; ascis cylindraceutis, stipitatis; sporidiis ellipticis, utrinque attenuatis, rectis curvulisve, fuscis 12 \approx 4.

Hab. in lignis in horto botanico Calcuttæ Indiæ (KURZ). — Affinis *X. Poitæanæ* sed rugosior et sporidia minora.

36. **Xylaria lobata** Cooke in Grev. 1883, p. 86. — Magna, suberosa, 2171
conchiformis, sessilis, ambitu lobata, fusca, levis, subnitida, lobis rotundatis, intus alba; peritheciis confertis, globosis, atris; ostioliis minutissimis, punctiformibus, planis; ascis cylindraceutis; sporidiis arcte lanceolatis, rectis curvulisve, brunneis, 12 \approx 3.

Hab. in lignis, Endeavour River Australiæ. — Nobilis species. 2172

37. **Xylaria elastica** Cooke Grev. XVI, p. 4. — Suberoso-elastica, subglobosa 3-5 cm. diam. vel hemisphærico-convexa, sessilis, nigrescens; ostioliis punctiformibus; peritheciis numerosis, congestis, lateraliter compressis, contextu spongioso-elastico, albido; ascis clavato cylindraceutis, octosporis; sporidiis uniseriatis, amygdalæformibus, binucleatis, fuscis, 12 \approx 6-7.

Hab. in ligno putrescente, Trinity Bay ad mare glac. austr. (SAYER). — Affinis *X. regali* sed sporidia duplo crassiora etc.

38. **Xylaria cinnabarina** Cooke et Mass. Grev. XV, p. 101. — Stro- 2173
mate suberoso, subgloboso, corrugato vel depresso, brunneo, subcuticulâ tenui cinnabarino, intus albo, stipite obsoleto; peritheciis magnis, prominulis; ascis cylindraceutis; sporidiis lanceolatis, fuscis, 10-12 \approx 3-4.

Hab. in lignis, Daintree River Australiæ (F. MUELLER).

39. **Xylaria favosa** Berk. et Curt. in Herb. Kew. Cooke Grev. 1883, 2174
p. 87. — Suberosa; stromate erecto, atro-fusco, rugoso, piriformi, infra in stipitem brevem attenuato, intus fusco-lacunoso, fusco; peritheciis imperfectis.

Hab. in lignis (?) in insula Cuba. — Stroma 35 mm. long., 20 mm. crass.

40. **Xylaria agariciformis** Cooke et Mass. Grev. XVII, p. 81. — Ca- 2175
pitulo semigloboso, 8-10 mm. diam., glauco, ostioliis nigris minutis punctato, truncato vel depresso, infra nigro et sterili, hinc ad stipitem nigro-annulato; stipite æquali vel deorsum leniter attenuato, 2-3 mm. cr., 2-5 mm. long., recto vel flexuoso, fuligineo; ascis teretibus; sporidiis uniseriatis, ellipsoideis, utrinque rotundatis, initio bi-nucleatis, demum atro-brunneis, 23-25 \approx 6-8.

Hab. in truncis Eyre's Sandpath Great Bight Australiæ (J. B. BAFF).

B. *Xylocoryne* Fr.

41. **Xylaria subtorulosa** Speg. F. Puigg. n. 269. — Stromatibus simplicibus, atris, cylindraneo-ellipticis v. obovatis rugulosis, atque grosse toruloso-tuberculatis, 10-15 mm. long., 2,5-4 mm. cr., stipite brevissimo suffultis; peritheciis semiimmersis, 0,5-1 mm. diam., globosis papillulato-ostiolatis; ascis cylindraceis, paraphysatis, octosporis, 200 \approx 8-10, parte spor., 50-70 \approx 3-5 ped.; sporidiis submajusculis navicularibus fuligineis, 20-22 \approx 6-7. 2176

Hab. ad caudices muscosos putrescentes in silvis prope Apiahy Brasilæ. — Species pulchella minuta pluribus aliis affinis, sed notis fructificationis ac habitu mox dignoscenda.

42. **Xylaria antarctica** Speg. F. Fueg. n. 184. — Stromatibus erectis compressis obovato-spathulatis, undique fertilibus superne late truncatis et acute marginatis, planis vel undulatis, crassiusculis, 1,5-2 cm. alt., 1,2-1,5 cm. lat., 2-3 mm. crass., marginibus lateralibus obtusis, intus farctis albis, extus atris non vel minute laxaque rugulosis, non vel vix ostiolato-asperulis, inferne in stipitem breviusculum crassum teretem 5-8 mm. long., 2,5-3 mm. crass., fusco-leproso-puberulum productis, laxe gregariis; peritheciis immersis, globosis, 400-550 μ . diam., dense constipatis, atris carbonaceis, non vel vix prominulis, ostiolo minutissimo non vel vix papillulato coronata; ascis mox diffluentibus, non visis; sporidiis elliptico-inæquilateralibus, utrinque acutiuscule obtusatis, 12 \approx 5-6, opace fuligineis, non vel utrinque minute 1-guttulatis. 2177

Hab. vulgatissima per Fuegiam totam ad caudices fagineos putrescentes.

43. **Xylaria hippoglossa** Speg. F. Puigg. n. 267. — Clavulis linguæformibus, 40-70 mm. long., 10-12 mm. lat., 5-6 mm. cr., intus farctis albis extus atris lenissime rugulosis, stipite conoideo-cylindraneo, 20-30 mm. long., 5-10 mm. cr., strato pannoso fusco-atro vestito, impositis; peritheciis globosis immersis, 400-600 μ . diam.; ascis cylindraceis, longe pedicellatis octosporis, 150-200 \approx 7-8, paraphysatis; sporidiis elliptico-navicularibus mediocribus fuligineis, 12-16 \approx 5-6. 2178

Hab. ad truncos dejectos putrescentes in silvis prope Apiahy Brasilæ.

44. **Xylaria tigrina** Speg. F. Puigg. n. 270. — Clavula ovata, atra, minute cinereo-tigrina, 10-12 mm. long., 7-8 mm. cr., stipite aterrimo velutino, 20 mm. long., 2 mm. cr.; peritheciis majusculis im- 2179

mersis globosis, areola cinerea sæpe cinctis, 0,5-0,7 mm. diam.; ascis cylindræis aparaphysatis, p, spor. 250-300 \approx 10-12; sporidiis cylindræo-subnavicularibus, fuligineis, 30-40 \approx 8-16, quaternis vel octonis.

Hab. ad ramos dejectos putrescentes sub folia humifusa in silvis prope Apiahy Brasilæ. — Species nobilissima habitu externo nec non sporidiorum fabrica mox dignoscenda.

45. **Xylaria leprosa** Speg. F. Puigg. n. 268. — Clavulis sublinguæ. 2180
formibus, 20-30 mm. long., 10-15 mm. lat., 3-5 mm. crass., intus fartis albis, extus pallide lateritio-fulvescentibus densissime minuteque nigro-rimuloso-reticulatis; stipite tereti-conoideo strato pannoso crasso vestito, 15-20 mm. long., 5-7 mm. cr.; peritheciis immersis globosis atris, 0,5 mm. diam.; ascis cylindræis, longe pedicellatis, paraphysatis, octosporis, 160-180 \approx 7-8; sporidiis cylindræo-navicularibus submediocribus, fuligineis, 17-20 \approx 5.

Hab. ad truncos dejectos putrescentes in silvis prope Apiahy Brasilæ.

46. **Xylaria scruposa** (Fr.) Berk. — Syll. I, p. 331. — Var. **bifida** 2181
Bres. Rev. Myc. 1891, p. 67. — Stipite subdeformi, teproso-tomentoso, nigro, 13 mm. long., 3-5 mm. cr. in duas clavas sublinguiformes, ubique fetiles, tuberculosas, apice obtuse bifidas, intus griseas solidas abeunte; peritheciis prominulis $\frac{1}{3}$ mm. diam., papillatis; ascis teretibus 130-150 \approx 8-10; sporidiis monostichis subnavicularibus, inæquilateris, fuscis, 20-26 \approx 6-9.

Hab. ad caudices in ins. St. Thomé Afric. occid. (MOLLER).

C. *Xylostyla* Fr.

47. **Xylaria ventricosa** Berk. in Herb. Cooke Grev. 1888, p. 87. — 2182
Stromate erecto, ventricoso, fusco, longitudinaliter rugosulo, apice longe acuminato, intus albo, demum cavo; stipite tenui; peritheciis globosis; ostiolis inconspicuis; ascis cylindræis; sporidiis non visis.

Hab. in lignis, Java. — Forte var. *X. giganteæ*, 7-8 cm. alta.

48. **Xylaria fustis** Mont. in Enum. Pl. Cubensis MSS. Cooke Grev. 2183
1883, p. 87. — Stromate erecto, subclavato, stipitato, supra acuminato, sterili, infra in stipitem elongatum, tenuem, flexilem attenuato, glabro; peritheciis globosis, atris, prominulis, magnis, paucis (10-12); ascis cylindræis, stipitatis; sporidiis ellipticis utrinque subattenuatis, fuscis.

Hab. in truncis in insula Cuba. — Stipes 35–50 mm. long., capitulum 12–15. mm. diam.

49. **Xylaria compressa** Pat. Bull. Soc. Myc. 1888, p. 108. — Stipite 2184 torto, gracili, nigrescente, erecto, 1–2 cm. long., clavula albida, 1–2 cm. long., in lamellam 3–4 mm. lat. applanata, apice in mucronem brevem, sterilem producta, contextu brunneolo; peritheciis sparsis, parum numerosis, globosis 1 mm. diam., superficialibus, nigris; ascis cylindræis, $70 \approx 6$, puncto amyloideo, minuto et cylindræo præditis; sporidiis ovoideis, vix incurvis, brunneis, 2-guttatis, $8-10 \approx 3-4$.

Hab. ad lignum emortuum, Atures Venezuelæ. — Affinis *X. pallidæ*.

50. **Xylaria striata** Pat. Journ. Bot. 1887, p. 247 c. ic. — Nigra, erecta, 2185 simplex, raro furcata; stromatibus 8–15, e basi communi exorientibus, gregariis, stipite gracili, elongato, glaberrimo, longitudinaliter striato intus albis, parte perithecigera subincrassata, striata, ostiolis parum prominulis punctata, subcompressa, in mucronem curtum et sterilem desinente; peritheciis globosis, nigris; ascis clavatis, longe stipitatis, apice attenuato-truncatis, 8-sporis, apice iodo cœrulescente; paraphysibus filiformibus; sporidiis brunneis, fusoides, inæquilateralibus, 2-guttatis, $15-20 \approx 5-8$.

Hab. in truncis vetustis *Trachycarpi* (Palmarum) *Mosoyus* Lankong Sinarum (DELAUVAY).

51. **Xylaria Botrys** Pat. Journ. Bot. 1890, p. 63. — Stromate nigro, 2186 glabro v. glabrescente, stipitiformi, simplici v. e 4–6 stipitibus connexis composito, plus vel minus diviso, apice ramulos breves, ovoideos torulosos, 4–5 mm. long., 2–3 mm. cr., mucrone 1 mm. long., racemoso terminatos gerente; contextu interno albo; peritheciis globosis, nigris, ostiolis vix prominulis, vix (sub lente) conspicuis; sporidiis ovoideis, inæquilateralibus, nigricantibus $12 \approx 5$.

Hab. in ligno emortuo Mont Bavi Tonkin. — Fungus 2–4 cm. alt., ramulorum racemus 2 cm. lat.

52. **Xylaria sicula** Pass. et Beltr. F. Sicul. n. 16. — Stipitibus spar- 2187 sis vel subinde connatis, capillaribus, simplicibus vel raro furcatis, atris, striatis, flexuosis, glaberrimis, 1–3 cm. long.; capitulo subgloboso mucronato, atro; peritheciis globoso-conoideis, subverticillatis; ascis paraphysatis, cylindricis, 8-sporis; sporidiis ovoideo-navicularibus, oblique monostichis, fuliginæis, $6 \approx 4$.

Hab. ad folia dejecta putrescentia *Oleæ europææ*, Licata Siciliae. — Specimina nonnulla sterilia stipitibus multo longioribus ramosioribusque, intricatis gaudent.

53. **Xylaria areolata** (Lév.) Sacc., *Sphæria* (Cordyceps) *areolata* Lév. 2188

Fragm. mycol. p. 141. — Receptaculis simplicibus elongatis, cylindricis, apice acuto sterilibus, crustaceis cinereo-rufescentibus, stipite brevi nudo basi incrassato suffultis; peritheciis innatis periphericis latentibus, globosis, intus nigris; ostioli punctiformibus, nigris, vix prominulis, areolas vacuas efformantibus; ascis filiformibus, paraphysibus tenuioribus præditis, octosporis; sporidiis elongatis, medio ventricosis, continuis, monostichis.

Hab. ad truncos Paramaribo. — Stroma 4-5 cm. alt., 3-4 mm. crass.

D. *Xylodactyla* Fr.54. **Xylaria venosula** Speg. F. Puigg. n. 263. — Minuta, cylindra- 2189

cea 5-10 mm. long., 2,5-3 mm. cr., crusta cinerescens reticulato-rimosa tecta, mucrone sterili 1-2 mm. longo donata, stipite sordide ochraceo-villoso 5-15 mm. long., 1 mm. cr., suffulta; peritheciis omnino immersis, 0,5 mm. diam., ostiolo non vel vix exserto; ascis cylindræis, 90-100 \approx 7-9 p. sp., ped. 35-40 \approx 2-3, octosporis paraphysatis; sporidiis mediocribus, elliptico-navicularibus, fuliginæis, 14-18 \approx 6-7.

Hab. ad caudices muscosos putrescentes in silvis prope Apiahy Brasiliæ. — Species pulcherrima *X. grammicæ*, peraffinis et facile ejusdem varietatem pusillam sistens.

55. **Xylaria metæformis** Lév. in Ann. Sc. Nat. 1863, pag. 293. — 2190

Stromate ovato-oblongato 10-20 mm., apice sterili, acuto flaviusculo e cinereo nigro, longitrorsum rimuloso; stipite cylindrico brevi hirto nigro; peritheciis globosis, latitantibus, intus fluxilibus, ostioli sparsis punctiformibus; paraphysibus filiformibus, interdum bifidis; ascis linearibus; sporidiis subelongatis, utrinque obtusis, uniserialibus, curvatis, subopacis, bilocularibus (spuriæ?).

Hab. ad truncos, Bogota, Acerradero Novæ Granatæ (LINDIG).

56. **Xylaria monticulosa** Lév. in Ann. Sc. Nat. 1863, pag. 293. — 2191

Stromate ovato-elongato, apice sterili, 10-15 mm. alto, acuto, cinereo-nigricante, peritheciis globosis, prominentibus, tuberculoso; stipite longo subcylindrico, filis longis, nigris obsito; ostioli punctiformibus, sparsis, vix conspicuis; paraphysibus filiformibus, continuis; ascis obovato-cylindricis; sporidiis octosporis, uniserialibus, elongatis, ventricosis, obtusis, curvulis, subopacis, diametro quadruplo longioribus.

Hab. ad truncos in silva Bogota, Acerradero Novæ Granatæ (LINDIG).

57. **Xylaria trachelina** (Lév.) Cooke Grev. 1883, pag. 8, *Sphæria* 2192
(Cordyceps) *trachelina* Lév. Ann. Sc. Nat. 1860, v. 304. — Receptaculis elongatis, rugosis, tuberculosis, apice acutis, sterilibus, fuliginis, intus albis, pedicello longissimo, tomentoso suffultis; peritheciis globosis, prominentibus, intus nigris; ostioliis obsoletis; ascis cylindratis; sporidiis obtuse lanceolatis, fuscis.

Hab. in truncis, Nova Granata. — Stroma 25-38 mm. alt., stipes 12 mm. long., clava 20-25 mm. longa, 3-5 mm. cr.

58. **Xylaria palmicola** Winter Grev. XV, pag. 89. — Stromate plus 2193
minusve erecto vel in parte inferiore adscendente, flexuoso gracillimo simplici, rarius tereti, plerumque subcompresso, sæpe parum tortuoso, opace fusco-atro, basi villo longo, fusco, sed dense adpresso vestito, usque 14 mm. long., 1-1½ mm. cr.; clavula peritheciigera stipite crassiore, multo brevior, cylindrica, sæpe parum inæquali, a peritheciis vix exstantibus nonnihil tuberculosa, ab ostioliis exsertis aspera, apice acuta sterili, usque 24 mm. long., 2-4 mm. cr.; peritheciis globosis vel late ovoideis immersis, ostiolo papillæformi prominentibus; ascis cylindratis sursum in stipitem longissimum attenuatis, 8-sporis, 137-150 \approx (part. sporif. 74-92) 9-10,5; sporidiis monostichis, ellipsoideis, valde inæquilateralibus, cymbiformibus, utrinque subacutis, opace fusco-atris, 14-16 \approx 7.

Hab. in fructibus putridis Palmarum in Brasilia (ULÉ).

59. **Xylaria fulvo-lanata** Berk. in Hook. Lond. Journ. 1842, p. 154. 2194
— Stromatibus fasciculatis, sæpe connatis, a basi scutata exorientibus, coriaceo-suberosis, deorsum rotundis, supra compresso-ramosis, fulvo-velutinis, apicibus pallidioribus, compressis, sericeis.

Hab. in insulis Philippine Oceanicæ (H. CUMING). — Fungus 3,5-4. cm. alt.

60. **Xylaria eucephala** Sacc. et Paoletti Mycet. Malac. n. 93, tab. I, 2195
fig. 13. — Stromate e basi nodulosa cylindrico vel subcompresso, simplici, rarissime bifido, atro, strigoso, hirtello, sursum glabrescente, 7-8 cm. longo, 1¼ mm. crasso, capitulo ellipsoideo, v. globoso-ellipsoideo, regulari, supra tereti-mucronato, compactiusculo, 6-8 mm. longo, 5-6 mm. crasso, leviusculo, minute albidofuscoque marmorato, intus albidofusco, lacunoso; peritheciis omnino immersis, stipitatis, globoso-angulosis, 1 mm. diam., nigris; ostioliis punctiformibus, non vel vix prominulis; mucrone tereti-attenuato, subglabro, 4-5 mm. long., 1 mm. crasso; ascis cylindricis, brevi-

stipitatis, 210 μ . long.; sporidiis recte monostichis, oblongo-navicularibus, utrinque obtusiusculis, curvulis, biguttulatis, 30-40 \simeq 8, fuliginis.

Hab. ad cortices arborum inter muscos, Malacca (SCORTECHINI). — *Xyl. aristatæ* Mont. subaffinis, ceterum distinctissima et pulcherrima.

E. *Thamnomycetes* Ehrenb.

61. **Xylaria** (Thamnomycetes) **dendroidea** Cooke et Mass. Grev. XVI, 2196 pag. 69, t. 172, f. A. — Stromate rigido, erecto, 15-20 cm. cylindrico, atro, nitido, sursum dichotomo-ramoso, fragili ad apicem ramulorum inflato-ampulliformi; peritheciis immersis, minutis, periphericis; ascis cylindræis, 8-sporis; sporidiis cylindricis, utrinque rotundatis, plerumque curvulis, fuscis 12 \simeq 4-5, conidiis hyalinis, subglobosis 4 \simeq 3.

Hab. ad lignum emortuum, Upper Demerara River, British Guiana Amer. austr. — Conidia in apice ramulorum generantur.

62. **Xylaria** (Thamnomycetes) **melanura** Lév. in Ann. Sc. Nat. 1863, 2197 p. 294 (*Chænocarpus melanurus* Lév). — Stromate verticali, setaceo, 20-30 mm. alto, apice acuto, sterili, nigro; peritheciis superficialibus, discretis globosis, inæqualibus, nigris, ostiolis 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).

63. **Xylaria** (Thamnomycetes) **patagonica** Crombie Lich. of Dill. Hist. 2198 Muscor. p. 555, *Usnea nigra setæ equinæ facie* etc. Dill. Hist. Musc. t. 13, f. 11. — Stromatibus filiformibus, rigidis, nigris, glabris, teretibus varie incurvatis, versus extremitates tantum in pauca capillamenta divisus; peritheciis.....

Hab. ad truncos in Patagonia. — Stromata 20-25 cm. long.

F. *Incertæ sedis.*

64. **Xylaria tuberosa** (Pers.) Cooke Grev. 1883, p. 88, *Sphæria tuberosa* Persoon in Gaudichaud Voyage p. 180. — Clavulis elongatis, glabris, apice compressis, ramosis, basi tuberosis.

Hab. in ligno putri (?), in insulis Sandwich. — Probabiliter forma *X. Hypoxyli*.

65. **Xylaria furcellata** Berk. in Herb. Cooke Grev. 1883, p. 88. — 2200

Stromate erecto, aurantio, 5 cm. alto, supra bi- v. tri-dichotomofurcato; ramulis abbreviatis, obtusis, subclavatis, cinereis; stipite erecto, tenui, æquali vel ventricoso, radicato; peritheciis ignotis.

Hab. in Neilgherries Indiæ.

66. **Xylaria xanthiceps** Berk. herb. Cooke Grev. 1883, p. 87. — Clavulis minutis, flavo-tinctis, conidiophoris. — *Hab.*..... 2201
67. **Xylaria Hystrix** Berk. herb. Cooke Grev. 1883, p. 87. — Erumpens, fasciculata, probabiliter status junior et sterilis speciei cujusdam. 2202
68. **Xylaria polonica** Blonsk. in Hedw. 1889, pag. 282, teste Karst. in Hedw. 89 non est nisi *Cordyceps cinerea* (Tul.) Sacc.

Ad *Xylariam* nutant, sec. Cooke Grev. XI, p. 126 et seq.: *Hypoxyylon paucillum* Ces. (1375), *Hypoxyylon Berteri* Mont. (1395), *Hypoxyylon globulosum* Ces. (1494) quod vero sec. Ces. potius ad *Kretzschmariam* accedit.

Sequitur dispositio *Xylariæ* specierum sec. Cooke, Grev. XI, p. 89, additis nonnullis mensuris sporidiorum ab eodem datis (præcipue ad exemplaria Kewensia).

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| <p>A) <i>Xyloglossa</i> clava ubique fertili, stipite glabro.</p> <p>a) Clavatae, stipite angusto, elongato.
* Simplices.</p> <p>1. <i>Xylaria euglossa</i> Fries. (1227 *).
2. » <i>australis</i> Cooke (S. 2137).
3. » <i>involuta</i> Klotzsch.
(spor. 22-25 × 5)
= <i>X. labacina</i> Kickx (1228)
= <i>X. Telfairii</i> Berk. (1204)
4. » <i>Wrightii</i> B. et C. (1212)
(spor. 30 × 8,5)
5. » <i>portoricensis</i> Klotzsch. (1170)
6. » <i>hypærythra</i> Mont. (1236)
7. » <i>guyanensis</i> Mont. (1165)
(spor. 6-7 × 4)
8. » <i>clavicularis</i> Klot. (1172)
9. » <i>gigantea</i> Zipp (1226)
10. » <i>holobapha</i> Berk. (S. 2138)
11. » <i>exalbata</i> Berk. (1217)
(spor. 12 × 3)</p> | <p>12. <i>Xylaria grammica</i> Mont. (1189)
(spor. 15-18 × 4)
= <i>X. ectogramma</i> Berk. (1197)
13. » <i>melanaxis</i> Ces. (1160)
(spor. 35 × 2)
14. » <i>rhopaloides</i> Mont. (1234)
(spor. 10 × 5)
15. » <i>Schweinitzii</i> B. et C. (1222)
16. » <i>letopus</i> Fr. (1151)
17. » <i>protea</i> Fr. (1154)
18. » <i>complanata</i> Ces. (1221)
(spor. 10-12 × 5)
19. » <i>fissilis</i> Ces. (1186)
20. » <i>Berkeleyi</i> Mont. (S. 2142)
21. » <i>rhytidophlæa</i> Mont. (1200)
(spor. 10-13 × 5-6)
22. » <i>zelandica</i> Cooke (1209)
23. » <i>nigripes</i> Klotzsch (S. 2155)
= <i>X. escharoidea</i> Berk.
= <i>X. piperiformis</i> Berk. (1280)
= <i>X. mutabilis</i> Curr.</p> |
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*) Numeri inter parentheses ad Sylloges Ivol. numeros generales referuntur. Littera S. indicat supplementum præsens.

= *X. flagelliformis* Curr.

24. *Xylaria cubensis* B. et C. (1177)
 25. » *multifida* Kunze (S. 2143)
 26. » *acicularis* Berk. (S. 2144)
 27. » *scopiformis* Mont. (1288)
 (spor. 10-11 \approx 3,5)
 28. » *cordovensis* Berk. (5942)
 29. » *retipes* Lév. (1198)
 30. » *columnifera* Mont. (1218)
 31. » *mascarensis* Cooke (S. 2136)
 32. » *fuegiana* Sp. (S. 2141)
 33. » *Fockei* (Miq.) Cooke (S. 2139)
 34. » *novo-guineensis* Rehm (S. 2140)
 35. » *cylindrica* Lév. (S. 2146)
 36. » *Trianae* Lév. (S. 2147)
- ** Furcatæ.
37. » *diceras* Lév. (1180)
 38. » *biceps* Speg. (1179 et S. 2148)
 39. » *contracta* Speg. (1233)
 40. » *divaricata* Fee (1181)
 41. » *arenicola* W. et Curr. (1158)
 42. » *Mellisii* Berk. (5944)
 43. » *Gardneri* Berk. (1164)
 (spor. 30 \approx 2)
 44. » *portentosa* Mont. (1250)
 45. » *scotica* Cooke (1202)
 46. » *ruginosa* Mont. (1201)
 47. » *tortuosa* Sow. (1208)
 48. » *gracilis* Klot. (1188)
 49. » *rhizocola* Mont. (1199)
 50. » *Willsii* Berk. (S. 2152)
 51. » *tentaculata* Rav. (1205)
- b) *Subclavatæ*, stipite crasso,
 abbreviato vel subnullo.
52. *Xylaria polymorpha* Grev. (1150 et
 S. 2156)
 53. » *variabilis* W. et Curr. (1156)
 54. » *cerebriformis* Cooke (S. 2157)
 55. » *Gomphus* Fr. (1187)
 56. » *papyrifera* Fr. (1168)
 57. » *conocephala* B. et C. (1176)
 (spor. 22 \approx 6)
 58. » *Emerici* Berk. (S. 2158)
 59. » *domingensis* Berk. (1182)
 (spor. 20 \approx 3 $\frac{1}{2}$ -4)
 60. » *Titan* Berk. (1207)
61. *Xylaria Poitæana* Lév. (1192)
 (spor. 18 \approx 4)
 62. » *regalis* Cooke (S. 2170)
 63. » *obtusissima* Berk. (1194 et S.
 2167)
 (spor. 12-11 \approx 3,5)
 64. » *turgida* Fr. (1155)
 65. » *lobata* Cooke (S. 2171)
 66. » *zeylanica* Berk. (1210)
 (spor. 18 \approx 3,5)
 67. » *Lingua* Lév. (1193)
 68. » *castorea* Berk. (1246)
 69. » *ærea* Mont. (1215)
 70. » *allantoidea* Berk. (1178)
 (spor. 10-12 \approx 3)
 71. » *fistulosa* Lév. (1185)
 (spor. 20 \approx 3,5)
 72. » *dealbata* B. et C. (1223)
 (spor. 40 \approx 10)
 73. » *fistuca* Berk. (1171)
 (spor. 10 \approx 4)
 74. » *siphonia* Fr. (1153)
 75. » *curta* Fr. (1152)
 76. » *plebeja* Ces. (1195)
 (spor. 10 \approx 3)
 77. » *echinata* Lév. (1183)
 78. » *anisopleura* Mont. (1219)
 (spor. 35 \approx 10)
 79. » *microceras* Mont. (1211 et S.
 2166)
 (spor. 12 \approx 4)
 80. » *platypoda* Lév. (1235)
 81. » *enterogena* Mont. (1214)
 82. » *fulvella* B. et C. (1166)
 83. » *phosphorea* Berk. (1167)
 (spor. 10-12 \approx 4-5)
 84. » *salmonicolor* Berk. (S. 2164)
 85. » *clavulata* Schw. (1238)
 86. » *pumila* Fr. (1169)
 87. » *capensis* Lév. (5951)
 88. » *Duchassaingii* Rehm (S. 2149)
 89. » *piriformis* Pat. (S. 2150)
 90. » *oligotoma* S. et S. (S. 2153)
 91. » *ovispora* Cooke (S. 2154)
 92. » *nigripes* (Kl.) Sacc. (S. 2155) = 23.
 93. » *herculea* (Miq.) Cooke (S. 2159)
 94. » *cynoglossa* Cooke (S. 2160)
 95. » *trivialis* Speg. (S. 2161)

96. *Xylaria fragariæformis* Sp. (S. 2162)
97. » *Thwaitesii* B. et C. (S. 2163)
98. » *vernica* (Fée) Sacc. (S. 2168)
99. » *ellipsospora* Cooke (S. 2169)
- c) Subglobosæ.
100. *Xylaria piliceps* Berk. (1174)
101. » *pyramidata* B. et W. (1196)
102. » *marasmoides* B. et W. (1161)
103. » *stilboidea* Kalch. et Cooke (1203)
104. » *cudonia* B. et C. (1213)
(spor. 13 × 8)
105. » *obovata* Berk. (1191)
(spor. 30 × 8)
106. » *tuberiformis* Berk. (1225)
107. » *globosa* Mont.
= *Hypox. globosum* Fr. (1426)
108. » *Clavulus* B. et C. (1220)
109. » *hæmorrhoidalis* B. et Br. (1163)
(spor. 35-40 × 10)
110. » *intermedia* Ces. (1162)
111. » *favosa* Berk. (S. 2174)
112. » *elastica* Cooke (S. 2172)
113. » *cinnabarina* Cooke (S. 2173)
114. » *favosa* B. (S. 2174)
115. » *agariciformis* E. et M. (S. 2175)
- B) *Xylocoryne*: clava ubique fertili, stipite villosa.
- a) Clavatæ, stipite elongato exili.
116. *Xyl. spathulata* B. et Br. (1257)
(spor. 6 × 3)
117. » *longipes* Nits. (1240)
118. » *hispidula* B. et C. (1255)
119. » *Beccariana* Pass. (1243)
120. » *fastigiata* Fr. (1242)
121. » *Geoglossum* Schw. (1245)
122. » *multiplex* Kunze (1244)
123. » *scruposa* Mont. (1252 et 2181)
(spor. 20 × 5)
124. » *polycladia* Lév. (1267)
125. » *radicata* B. et C. (1251)
(spor. 8-10 × 4)
126. » *comosa* Mont. (1253)
127. » *tenuissima* Fr. (1258)
- b) Clavatæ, stipite brevi.
128. *Xylaria corniformis* Mont. (1239)
129. *Xylaria aphrodisiaca* W. et Curr. 1241
130. » *alpina* Speg. (1249)
131. » *subtorulosa* Speg. (S. 2176)
132. » *antarctica* Speg. (2177)
133. » *hypoglossa* Speg. (S. 2178)
134. » *tigrina* Speg. (S. 2179)
135. » *leprosa* Speg. (S. 2180)
- c) Subglobosæ.
136. *Xylaria collabens* Mont. (1247)
(spor. 30 × 10)
137. » *microcephala* Mont. (1256)
- C) *Xylostyla*: clava sursum sterili, stipite glabro.
- a) Clavatæ, subindivisæ vel cristatæ.
138. *Xylaria ventricosa* Berk. (S. 2182)
139. » *Kegeliana* Lév. (1190)
(spor. 30-35 × 6,5-7)
140. » *pallida* Cooke (1237)
141. » *graminicola* Gerard (1286)
142. » *coronata* West. (1175)
143. » *cristata* Speg. (1290)
144. » *inæqualis* B. et C. (1295)
145. » *fustis* Mont. (S. 2183)
146. » *myosurus* Mont. (1159)
147. » *mucronata* Schw. (1279)
148. » *phyllophila* Ces. (1293)
(spor. 20 × 10)
149. » *phyllocharis* Mont. (1294)
150. » *ventricosa* Berk. (S. 2182)
151. » *compressa* Pat. (S. 2184)
152. » *striata* Pat. (S. 2185)
153. » *Botrys* Pat. (S. 2186)
- b) Clavæ connatæ vel ramosæ.
154. *Xylaria digitata* Fr. (1283)
155. » *acuta* Peck (1277)
156. » *sicula* Pass. et Beltr. (S. 2187)
157. » *grandis* Peck. (1284)
158. » *cæspitulosæ* Ces. (1287)
159. » *bulbosa* Pers. (1285)
160. » *rhizomorpha* Mont. (1300)
161. » *adscendens* Fr. (1248)
162. » *fasciculata* Speg. (1289)
163. » *coccophora* Mont. (1291)
- c) Ovatae vel subglobosæ.
164. *Xylaria vaporaria* Berk. (1292)

165. *Xylaria Thyrsus* Berk. (1206)
 166. » *axifera* Mont. (1301)
 a) *Filiformes peritheciis remotis.*
 167. *Xylaria tricolor* Fr. (1297)
 168. » *filiformis* Fr. (1296)
 169. » *gracillima* Mont. (1299)
 (spor. 5-6 × 2,5)
 170. » *axillaris* W. et Curr. (1157)
 171. » *furcata* Fr. (1298)
 172. » *areolata* Lév. (S. 2188)
 D) *Xylodactyla*: clava sursum
 sterili, stipite villosa.
 a) *Clavatae, simplices.*
 173. *Xylaria trachelina* Lév. (S. 2192)
 174. » *apiculata* Cooke (1264)
 175. » *persicaria* Schw. (1268)
 176. » *carphophila* Fr. (1270)
 177. » *Oxyacanthæ* Lév. (1271)
 178. » *Delitschii* Auersw. (1272)
 179. » *cupressiformis* Fr. (1261)
 (spor. 22-25 × 5)
 180. » *Massula* Ces. (1262)
 181. » *stuppea* (Wallr.) Nits. (1266)
 182. » *venosa* Speg. (S. 2189)
 183. » *metæformis* Lév. (S. 2190)
 184. » *monticulosa* Lév. (2191)
 185. » *trachelina* (Lév.) Cooke (S.
 2192)
 186. » *palmicola* Wint. (S. 2193)
 187. » *fulvo-lanata* Berk. (S. 2194)
 188. » *eucephala* Sacc. et P. (S. 2195)
 b) *Furcatæ vel divisæ.*
 189. *Xylaria Cornu-damæ* Schw. (1278)
 190. » *Feejensis* Berk. (1274)
 191. » *Hypoxylon* Fr. (1260)
 192. » *Guepini* Fr. (1269)
 (spor. 8 × 2,4)
 193. » *eupiliaca* Ces. (Cfr. 1269)
 194. *Xylaria Arbuscula* Sacc. (1276)
 195. » *dichotoma* Kunze (1275)
 196. » *subterranea* Schw. (1281)
 (spor. 17-20 × 5)
 197. » *ianthino-velutina* Mont. (1282)
 (spor. 13 × 4)
 = *X. Apeibæ* Mont. (1302)
 = *X. monilifera* Berk.
 198. » *Culleniaë* B. et Br. (1254)
 199. » *flabelliformis* Schw. (1273)
 c) *Subglobosæ.*
 200. *Xylaria pedunculata* Fr. (1259)
 201. » *Tulasnei* Nits. (1265)
 202. » *aristata* Mont. (1263)
 = *X. Acicula* Ces. (1216)
 E) *Thamnomycetes* Ehrenb.
 203. *Xylaria hippotrichoides* (Sow.) S.
 (1303)
 204. » *rostrata* (Mont.) Sacc. (1304)
 205. » *adnata* (Fuck.) Sacc. (1305)
 206. » *fragilis* (Roth) Sacc. (1306)
 207. » *hispidissima* (Fr.) Sacc. (1307)
 208. » *Chamissonis* (Ehrenb.) Sacc.
 (1308)
 209. » *annulata* (Ehrenb.) Sacc. (1309)
 210. » *chordalis* (Fr.) Sacc. (1310)
 211. » *fuciformis* Berk. (1311)
 212. » *annulipes* (Mont.) Sacc. (1312)
 213. » *dendroidea* Cooke et M. (S.
 2196)
 214. » *melanura* Lév. (S. 2197)
 215. » *patagonica* Cr. (S. 2198)
 Incertæ sedis
 216. *Xylaria tuberosa* Lév. (S. 2199)
 217. » *furcellata* Berk. (S. 2200)
 218. » *xanthiceps* Berk. (S. 2201)
 219. » *Hystrix* Berk. (S. 2202)

CAMILLEA Fr. — Syll. I, p. 346.

1. *Camillea bilabiata* Speg. F. Puigg. n. 259. — Superficialis, atra, 2203
 parvula, subconoidea, apice profunde excavata, 4-5 mm. lat., 2,5-3
 mm. alt., foveola margine obtusa, naviculari-bilabiata; peritheciis

cylindræis, stromate omnino immersis, 1,5-2 mm. alt., 0,2-0,3 mm. diam.; ascis et sporidiis non visis.

Hab. ad ramos dejectos putrescentes in silvis pr. Apiahy Brasi-liæ. — *Hypoxyton turbinatum* Berk. — Syll. I, p. 372 — vul-gatum prope Apiahy Brasi-liæ, teste Speg. l. c., *Camillea turbina-ta* (Berk.) Speg. nuncupandum est. — Cl. Patouillard, qui in Journ. Bot. II, p. 49, t. I illustravit *C. Leprieurii*, contendit *Hypoxyton melanaspis* Mont. nonnisi ejusdem *Camilleæ* statum effusum sistere.

PORONIA W. — Syll. I, p. 349.

1. **Poronia leporina** Ell. et Ev. Proc. Phill 1890, p. 229. — Stipi- 2204
tata, carnea, minuta, stipite 1-2 mm. long., 0,5 mm. cr., in stroma discoideum, 1-2 mm. diam., peritheciis prominulis mamillosum sursum expanso; peritheciis ovato-globosis, 0,3 mm. diam, 6-20 in quoque stromate, ostiolis majusculis, convexis, nigris; ascis clavato-cylindræis, 80-100 \approx 10-12, p. sp., 75-80 μ . long., obscure paraphysatis; sporidiis initio chlorinis, 1-2 nucleatis, dein opacis, subinæquilateraliter ellipsoideis, sæpe 1-seriatis, 12-15 \approx 6-7.

Hab. in fimo leporino, Emma Mo. Amer. bor. (C. H. DEMETRIO).

2. **Poronia ustorum** Pat. Champ. N. Caled. p. 8, t. 17, f. 7. — Stro- 2205
mate recto, 5-8 mm. long., 2 mm. cr., disco orbiculari, 4-5 mm. diam., supra convexo, subtus subplicatulo, margine crenulato e tuberculis numerosissimis, ostiolis 2-4 prominulis, nigris, micantibus punctatis efformato, contextu albo; ascis cylindræis, 8-sporis, apice iodo cœrulescente, aparaphysatis; sporidiis monostichis, ovoideis, fuligineis, 1-guttatis, 8-10 \approx 4-5.

Hab. in rhizomatibus Graminacearum ustarum pr. Nouméa N. Caledoniæ.

USTULINA Tul. — Syll. I, p. 350.

1. **Ustulina tessulata** (Berk.) Cooke in Grevillea XII, pag. 3, *Hypo- 2206*
xylon tessulatum Berk. in Herbario. — Stromate superficiali, pulvinato-lobato, undulato, maximo, crasso, tessulato-ruguloso, atro-fuligineo, intus demum excavato; peritheciis compressis, stipatis, monostichis, periphericis; ostiolis punctiformibus; ascis cylindræis; sporidiis lanceolatis, magnis, fuscis, 40-50 \approx 8-9.

Hab. in ligno, Bombay in India.

2. **Ustulina microspora** Speg. Fungi Guar. Pug. I, n. 191. — Stro- 2207
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 densis, gracillimis obvallatis; sporidiis monostichis vel distichis, elongato-ellipticis, 20-25 \approx 7-8, utrinque acutato-rotundatis vel subapiculato-limoniformibus, inæquilateralibus, subopace fuliginis.

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

Ad genus **Ustulinam** pertinent, sec. Cooke: *Hypoxylon pavimento-sum* Ces. (1374) et *Hypoxylon tuberiforme* (Wallr.) (1428).

HYPOXYLON Bull. — Syll. I, p. 352.

I. *Macroxylon* Cooke.

1. **Hypoxylon cœlatum** (Fr.) Ces. Myc. Born. p. 19, C. Grevillea XI, 2208 128, *Sphæria cœlata* Fr. Linnæa V, p. 540, *Leveillea cœlata* Fr. Summa p. 409. — Turbinatum 12 mm. alt. submarginatum, disco convexo; stromate suberoso-indurato, nigricante, apice determinate excavato, stratis cellulosis verticalibus referto; peritheciis in crusta exteriori cornea, periphericis, minimis; ascis cylindræis; sporidiis sublanceolatis, fuscis, 14 \approx 4.

Hab. in truncis Cayenna, Sarawak. — Teste Cooke Grev. XIX, *Hyp. amorphum* E. et E. ad *H. Broomeanum* spectat.

2. **Hypoxylon corrugatum** (Fr.) C. Grevillea XI, 129, *Sphæria corrugata* Fr. Ell. II, 70, Sacc. Syll. II, p. 367. — Difforme, confluens, tuberculosum, rimosum, corrugatum, atrum, intus cinerescens; peritheciis profunde immersis; ostiolis papillæformibus, rugosis; ascis cylindræis; sporidiis ellipticis, rectis curvulisve, fuscis, 5 \approx 3.5.

Hab. in ligno patri Salicis, Populi etc. in Gallia (GUEPIN).

3. **Hypoxylon viridi-rufum** (B. et Rav.) C. Grev. XI, 129, *Hypocrea viridi-rufa* Berk. N. Amer. Fungi 803, Sacc. Syll. II, p. 528. — Majus, subglobosum, congestum, viridi-rufum; ostiolis impressis;

ascis linearibus; sporidiis oblongis, continuis, fuscis, primum binucleatis, $12 \approx 4$.

Hab. in *Alno serrulata* Carolina Amer. bor.

4. **Hypoxylon ovinum** Berk., C. Grevillea XI, 129. — Hemisphæricum v. confluenti-elongatum, purpureo-nigricans, durum, leve, subnitidum, intus fuscum; peritheciis stratosi, atris, subglobosis, ostioliis obsoletis; ascis cylindricis; sporidiis ellipticis, fuscis, dein atrofuscis, $16-18 \approx 7$.

Hab. in lignis Orizaba, Mexico et Tristan d'Acunha.

5. **Hypoxylon stratosum** Sacc. Myc. Austr. n. 72, f. 1. — Stromate hemisphærico, magno, in cortice superficiali, subereo-ligneo, denique subcarbonaceo, 3-4 cm. lat., ubique fuligineo, extus levi sublaccato, ostioliis punctiformibus crebris non vel vix exstantibus obsolete punctulato, intus stratis plurimis (15-20) concentricis suberosis, nitidulis, constipatis præditi; stratis exterioribus 5-6 peritheciigeris; peritheciis oblongo-ellipsoideis, nigris, carbonaceis 1,5 mm. alt., $\frac{1}{2}$ mm. lat., collis brevissimis, cylindræis; ascis . . . jam resorptis; sporidiis ellipsoideis, utrinque æqualiter rotundatis, atrofuligineis, subinde guttulatis, $12 \approx 5-5,5$.

Hab. in cortice arborum emortuarum, Gracemere Australiæ frequens. — A speciebus stratosi *H. Petersii* et *H. ovino* sporidiorum dimensionibus, stromatis forma etc., satis differre videtur.

II. *Phylacia* Lév., Cooke.

6. **Hypoxylon turbinatum** Berk. — Sacc. Syll. I, p. 372. — Var. **guaraniticum** Speg. Fungi Guar. Pug. I, n. 206. — Stromatibus obconicis, solitariis v. dense gregariis, rarissime confluentibus, superne applanato-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 implente, homogœnea, fusco-atra vel coffeicolori, obsoleto fibrosula, in fracturis sericeo-nitente; peritheciis sub disco supero in cavitate lenticulari dense aggregatis, verticalibus cylindræo-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 imperspi-

cuoque 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 vel 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 pr. Guarapî Brasilæ. — Species pulcherrima a genere certe satis desciscens ac facile in novum genus erigenda inter *Hypoxylon* et *Camilleam*.

7. **Hypoxylon poculiforme** Mont. Cent. II, n. 42, *Corynelia poculi-* 2214
formis Kunze in Weigelt Exsic. *Phylacia poculiformis* Lév. Ann. Sc. Nat. 3, III, pag. 61, Mont. Guy. n. 583, Syll. Crypt. pag. 258. — Solitarium, obovatum, poculiforme, atro-fuscum, opacum, brevissime stipitatum; stipite basi dilatato; peritheciis paucis linearibus, erectis, fuscis; ostiolis latentibus.

Hab. in silvis montosis, viam, quæ ad Kau ducit, marginantibus, ad ligna emortua (LEPRIEUR).

8. **Hypoxylon Carteri** Berk. in Herb., Cooke Grev. 1883, p. 87. — 2215
Globosum, stipitatum, atrum, nitidum, 6-12 mm. diam., intus fuscum.

Hab. in lignis Bombay Ind. orient.

9. **Hypoxylon ramulosum** (Schw.) Berk. Grev. 1873, p. 87. — Ramu- 2216
losum, intus brunneum; peritheciis nullis visis.

Hab. in corticibus, Surinam.

III. *Sphæroxylon* Cooke.

10. **Hypoxylon coccineum** Bull. — Sacc. Syll. I, pag. 353, var. **mi-** 2217
crocarpum 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.

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

11. **Hypoxylon commutatum** Nits. * **H. Holwayanum** Sacc. et Ell. Mich. 2218
II, p. 570. — A typo præcipue differt: peritheciis in stromate hemisphærico, majoribus, paucioribus, monostichis, magnis protuberantibus, extus ochraceo-rufis, dein nigricantibus; ostiolis punctiformibus; sporidiis phaseoliformibus, 12-14 \approx 6-6,5, fuligineis.

Hab. in cortice emortuo Carpini (?), Jowa, Amer. bor. ubi legit E. W. HOLWAY (ELLIS).

12. **Hypoxylon Veræ-crucis** Berk. et Cooke in Grevillea XI, 129. — 2219

Subglobosum, superficiale, sæpe confluens, 1-2 cm. diam., læte rubiginosum, intus fuliginosum; peritheciis mediis, ovatis, periphericis, prominulis; ascis cylindraceutis; sporidiis ellipticis, utrinque attenuatis, fuscis, $20 \approx 8$.

Hab. in lignis putrescentibus, Vera Cruz (SALLE).

13. **Hypoxylon albo-cinctum** Ell. et Ev. Proc. Phil. 1890, p. 229. — 2220

Stromate tenui, 1 mm. cr., plano, carbonaceo, sæpius orbiculari, $\frac{1}{4}$ -1 cm. diam., læte cinereo, mox purpureo-nigro, excepto margine diutius pallidiore; peritheciis ovato-globosis, minutis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., monostichis, subconfertis, stromate immersis, collo brevi attenuatis et in ostiolum minutum papillatum desinentibus superficiemque stromatis inæqualem reddentibus; ascis cylindraceutis, 80-100 \approx 5-6, p. sp. 60 μ . long., copiose paraphysatis; sporidiis 1-stichis, anguste ellipsoideis subacutis, brunneis, 1-2-nucleatis, 7-8 \approx 3,5-4.

Hab. in cortice emortuo Cratægi, Preston Ohio Amer. bor. (A. P. MORGAN).

14. **Hypoxylon nectrioides** Speg. Fungi Guar. Pug. I, n. 196. — Stro- 2221

matibus tuberculoso-pulvinatis, pulvinulis irregularibus, sparsis v. hinc inde aggregato-confluentibus, 3-5 mm. lat., 0,5-1 mm. crass., margine determinatis atque subcoarctatulis, primo rubris dein rubiginosis, pruinuloso-furfuraceutis 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, opace fuliginis.

Hab. ad corticem putrescentem arborum frondosarum in silvis prope Guarapí Bras. — Specie pulchella, externa facie formæ depauperatæ ac senescenti *Nectriæ cinnabarinæ* simillima.

15. **Hypoxylon bicolor** B. et C. — Sacc. Syll. I, p. 381, Ell. et Ev. in 2222

Journ. of Myc. 1886, pag. 85. — Stroma tuberculari-hemisphæricum circiter 2 mm. diam., superficiei undulata atque ostiolis punctulata, ut in *H. punctulato*, rufulum vel subpurpurascens; perithecia subperiphærica, immersa, circiter 1 mm. diam.; asci acute

cylindræci, basi attenuati, circiter 100×6 ; 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 Amer. bor. — Affine *H. fusco*.

16. **Hypoxylon Laschii** Nits. — Syll. I, p. 356. — ***H. Onnii** Karst. 2223

Symb. Myc. XXII, p. 143. — Stromatibus pulvinatis, basi orbicularibus, per peridermium fissum erumpentibus ejusque laciniis cinctis, primitus extus intusque ferrugineo-rufulis, dein atris; peritheciis sat minutis, periphericis, vertice rotundatis, prominulis, mammilosis, discretis; sporidiis oblongo-ellipsoideis, rectis v. plus minus inæquilateralibus, dilute fuligineis, eguttulatis, $7-11 \approx 3,5-4,5$.

Hab. ad ramos corticatos *Populi nigræ* in horto mustialensi Fenniæ (ONNI KARSTEN).

17. **Hypoxylon mbaiense** Speg. Fungi Guar. Pug. I, n. 202. — 2224

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 fuscescenti-atris, dein extus intusque atris; peritheciis 5-20-aggregatis, globulosis, 400-450 μ . d., e mutua pressione angulosis, non v. vix prominulis, disco (si perspicuo) applanato v. subumbilicato, ostiolo minutissimo, non visibili nec papillato perforatis, subcarbonaceis, nigris; ascis cylindræcis, apice rotundatis, p. sp. $70-75 \times 8-9$, 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 fuligineis.

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

18. **Hypoxylon dubiosum** Speg. Fungi Guar. Pug. I, n. 200. — Stro- 2225

matibus majusculis, 5-10 mm. diam., solitariis vel aggregatis sæpeque confluentibus, hemisphærico-pulvinatis, 5-6 mm. crass., ambitu rotundato-coarctatulis, non vel vix repandulis, obsolete ruguloso-papillosis, primo sordide griseo-fuscis (pruina deterrentis) dein (nudis) atris, intus fusco-griseis vel plumbeo-atris, radiatim fibrosis, non vel vix sericeo-nitentibus; peritheciis periphe-

ricis, monostichis, dense constipatis ellipticis v. subovatis, e mutua pressione sæpe angulosis, 700-800 \approx 400-450, coriacellis, in stromatis superficie non vel vix prominulis sed obsolete discoideo-applanatis, ostiolo vix lente valida perspicuo, non exsertulo ac sæpe hysterioideo ornatis; ascis mox diffluentibus, non visis; sporidiis ellipticis vel navicularibus, utrinque obtuse acutatis, 12-14 \approx 6-6,5, opace fuligineis.

Hab. ad corticem duriores arborum dejectarum, putrescentium in uliginosis nemorosis prope Guarapì Bras. — Species pulchra *H. hypomilto* affinis; cum *H. solido* certe cognata, sed hujus descriptio nimis imperfecta.

19. **Hypoxylon multiforme** Fr. var. **australe** Cooke in Grevillea XI, 2226 p. 129. — A typo aliquid recedit stromatibus rotundioribus; sporidiis minoribus, 8 \approx 3.

Hab. in corticibus et lignis, Melbourne Australiæ.

20. **Hypoxylon hians** Berk. et in Grevillea XI, p. 129. — Hemisphæ- 2227 ricum vel subglobosum, superficiale, atrum, nitidum, intus atrofuligineum; peritheciis magnis, subglobosis, conico-elevatis, ad apicem cupulato-excavatis, centro ostiolum papillatum gerentibus; ascis cylindraceutis; sporidiis ellipticis, obtusis, fuscis, 10-12 \approx 6-7.

Hab. in lignis Tasmaniæ. — Stroma 25 mm. diam.; ostiola circum-sulcata.

21. **Hypoxylon Hookeri** Berk. in Grevillea XI, p. 129. — Subglobo- 2228 sum, mox atrum 1 cm. et ult. diam., intus fuliginosum; peritheciis magnis, globosis, elevatis; ostiolo papillato; ascis cylindraceutis; sporidiis ellipticis, fuscis, 10 \approx 4.

Hab. in lignis, India (J. D. HOOKER). — Nonnullis notis ad *H. majusculum* et *H. annulatum* accedens.

22. **Hypoxylon nodulorum** Lév. in Grevillea XI, p. 130. — Globosum, 2229 superficiale, nigrum opacum 1-2 cm. diam., rugosum, intus pallidum, duriusculum; peritheciis globosis, mediis periphericis, atris; ostiolo minuto papillato; ascis cylindraceutis; sporidiis 20-22 \approx 5.

Hab. in lignis in insulis Marquesas.

IV. *Clitoxylon* Cooke.

23. **Hypoxylon flavo-fuscum** B. et Br. Brisb. III, pag. 222, tab. 29, 2230 f. 24-27. — Convexum, irregulariter lobatum, flavo-fuscum, farinosum, 4-6 mm. diam., ostiolis nigris, prominentibus punctatum, intus album; ascis linearibus, 8-sporis; sporidiis 1-stichis, ovoideis, atro-brunneis, levibus, 17,5 \approx 20.

Hab. in radicibus emortuis Graminum, Brisbane Australiæ (F. M. BAILEY).

24. **Hypoxylon Holwayi** Ellis in Amer. Nat. XVII, p. 193, in Grevillea XI, p. 130. — Stromate orbiculari, 2½-5 mm. diam., tenui, primum pruinoso, intus nigro; ostioliis atris, prominulis, acute papillosis; peritheciis 20-30, uniseriatis; ascis cylindricis; sporidiis uniserialibus, oblongis, fuscis, 1-2-nucleatis, 22-27 = 11.

Hab. in truncis ramisque Populi, Jowa Amer. bor. — Stromata bysso conidiophora Institaliformi vestita.

25. **Hypoxylon hæmatostroma** Mont. — Syll. I, p. 376. — ***H. hæmatozonum** Sacc. Myc. Austral. n. 71, f. 2. — A typo differre videtur stromate depresso pulvinate crassiusculo extus dense minute papillato, argillaceo-rubro, intus nigricante, compacto; peritheciis dense stipatis inæqualiter ovatis, zona stromatis cinnabarina angusta immersis; ascis cylindraceutis, octosporis; sporidiis oblongo-navicularibus, 10-12 = 8, fuligineis.

Hab. in ligno emortuo, Gracemere Australiæ.

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

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

27. **Hypoxylon umbilicatum** Speg. F. Puigg. n. 256. — Irregulariter glomerulosum, sordide ochraceum, stromate parcissimo; peritheciis globulosis, 0,5-0,7 mm. diam., ostiolo crasse umbonato profundeque umbilicato coronatis; ascis cylindraceutis, octosporis, 300-350 = 24-25, ped. 50-100 = 10-15, aparaphysatis; sporidiis late ellipticis, fuligineis, 38-40 = 20-22.

Hab. ad palos dejectos putrescentes in hortis Apiahy Brasilæ.

28. **Hypoxylon sandvicense** Reichardt Krypt. Hawai p. 6. — Stromate superficiali, inæqualiter repando-pulvinate, convexo, 1-3 cm. late expanso, 3-5 mm. cr., e griseo rufescenti-nigricante; peritheciis immersis monostichis, ellipsoideis, 1 mm. long., 0,5 mm. lat., vertice prominulo papillatis; ascis cylindraceutis, 200 = 10 p. sp., octosporis, tenuissime paraphysatis; sporidiis oblique monostichis, fusoides, inæquilateralibus, curvulis, 20 = 5, continuis, levibus, nigricantibus.

Hab. ad truncos putres in valle Wailuku in ins. Hawai (WAWRA).

— Subaffine *H. multiformi*.

29. **Hypoxylon pallidum** E. et E. Journ. Mycol. 1888, p. 68. — Pe-

peritheciis globosis, 1 mm. diam., suberoso-coriaceis, in greges tuberculiformes, 2-5 mm. diam., collectis, coffeato-brunneis, glabris inæqualibus, perithecorum vertice applanato pallide annulato, centro ostiolo papillato nigro; stromate obsoleto; ascis cylindraceutis 150 \approx 6, substipitatis, copiose paraphysatis; sporidiis 1-stichis, navicularibus, opacis, 12 \approx 6.

Hab. in cortice truncorum *Quercus emortuorum* Catahoula La. Amer. bor. (LANGLOIS).

30. **Hypoxylon plumbeum** Speg. Fungi Guar. Pug. I, n. 193. — Stro- 2237
matibus 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 sæpeque confluentibus, dense mammillosis, fere rubiformibus, extus primo pruinula subcrustacea, non detergili, 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, modice 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 fuliginosis.

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

31. **Hypoxylon exiguum** Cooke in Grevillea XI, p. 130. — Pulvina- 2238
tum, convexo-applanatum, atrum, ovale vel discoideum, (2-3 mm. lat., hic illic confluens; peritheciis minutis, numerosis, papillatis; ascis cylindraceutis; sporidiis minutissimis ellipticis, fuscis, 3,5 \approx 2.

Hab. in ligno putri in insula Mauritii, Alabama, Carolina.

32. **Hypoxylon Pouceanum** Berk. et Cooke in Grevillea XI, p. 130. — 2239
Pulvinatum, atrum, nitidum, superficiale; peritheciis paucis, subglobosis, ostiolo in disco plano, annulato-marginato papillatis ut in *H. annulato*; ascis cylindraceutis; sporidiis sublanceolatis, rectis vel curvulis, fuscis, 15 \approx 4.

Hab. in corticibus in insula Mauritii (Doct. AYRES). — Affine *H. annulato*, a quo sporidiis paullo majoribus differt, an satis?

33. **Hypoxylon rimarum** Berk. et Cooke in Grevillea XI, p. 130. — 2240
Pulvinulis atris, nitidis, elongatis, ex rimis epidermidis corticis erumpentibus; peritheciis magnis, prominulis, papillatis, in crustam

nigram confluentibus; ascis cylindricis; sporidiis ellipticis, obtusis, fuscis, 6-7 \approx 2,5.

Hab. in cortice ramorum in insula Mauritii. — Stroma 1 cm. long., 1-2 mm. lat.; habitus fere *H. Sassafras*.

34. **Hypoxylon Berkeleyi** Sacc. *H. mascariense* Berk., nec Montagne, 2241
Grevillea XI, 131. — Hemisphæricum, atrum, nitidum, 2 mm. lat.; peritheciis globosis, majusculis, atris, subprominulis, ostiolo papillato præditis; ascis cylindræis; sporidiis subellipticis, fuscis 12 \approx 5.

Hab. in corticibus in Guiana britannica. — Habitus fere speciei Montagneanæ, sed non prorsus erumpens et fructificatio diversa.

35. **Hypoxylon leucostomum** Cooke Grevillea XI, 132. — Convexum 2242
subhemisphæricum, atrum 2 mm. lat., peritheciis subglobosis, paucis prominulis, ostiolo atro-impreso, annulo albo circumdato; ascis cylindræis; sporidiis ovatis, continuis, atro-fuscis, 7,5 \approx 4.

Hab. in ramis, Panuræ Brasiliæ. — Ostiola zonulâ albâ cincta.

36. **Hypoxylon Ayresii** Berk. in Grevillea XI, 132. — Hemisphæri- 2243
cum, depressum, hic illic confluens, atrum, fragile; peritheciis globosis vix confertis, ostiolo punctiformi, leniter prominulo; ascis cylindræis; sporidiis ellipticis, rectis curvulisve, fuscis, 10-12 \approx 4,5.

Hab. in corticibus in insula Mauritii. — Stroma vix 1 cm. d.

37. **Hypoxylon subnigricans** Speg. Fungi Guar. Pug. I, n. 201. — 2244
Stromate ligno denudato nigrificatoque late ambiente, 5-15 cm. d., applanato, pulvinate 0,5-1 mm. crass., ambitu repando-subdeterminato, non effuso, non vel leniter undulato, dense regulariterque granulato-mammilloso, primo pulvere fusco 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 fuligineis.

Hab. ad ramos decorticatos putrescentes arborum in dumetis prope Guarapì Brasiliæ.

38. **Hypoxylon Bovei** Speg. F. Fueg. n. 187. — Peritheciis substan- 2245
tia stromatica parcissima nigra carbonacea connatis (rarius solitariis) in ramis corticatis vel decorticatis superficialibus, glomerulos magnitudine ludentes 3-20 mm. diam. et difformes efficientibus, globosis, majusculis, 0,8-1,4 mm. diam., prominulis, superne truncatis et disco plano 0,5-0,7 mm. diam., ambitu ruga acuta elevata marginato atque centro ostiolo minuto papillulato donato ornatis, prima ætate furfure albo vel flavescente tectis, dein glabris

levibus, atris carbonaceis; ascis cylindræis, antice truncato-rotundatis crassissime tunicatis ac 1-foveolatis, postice in pedicellum logiusculum attenuatis p. sp. 80-90 \approx 8-9, ped. 40-50 \approx 3-5, octosporis, paraphysatis; sporidiis monostichis, cymbiformibus, utrinque acutiuscule rotundatis 10-14 \approx 5-7, grosse 1- vel 2-guttulatis, opace fuligineis.

Hab. vulgatissimum ad ramos emortuos Fagorum in Staten island et per Fuegian totam. -- Species pulcherrima! certe huc *Hyp. annulatum* Mont. trahendum, nam specimina *Sphæriæ* (*Hyp.*) *annulatæ* Schw. a Cl. J. B. Ellis in *N. A. Fungi* edita, a typo fuegiano longissime omnibus characteribus abhorrent.

39. **Hypoxylon diatrypelloides** Speg. F. Fueg. n. 186. — Stromatibus²²⁴⁶ per peridermium arcte adhærens erumpentibus, elongatis vel ellipticis 3-5 mm. long., 1-2,5 mm. lat., transversis non vel subtruncato-marginatis, pulvinatulis, 1 mm. crass., superne sæpius applanatis, fusco-nigris, parce minuteque papillulosis, intus atris; peritheciis paucis 5-20, in quoque stromate, dense constipatis, e mutua pressione irregulariter obovatis 400-450 μ . diam., monostichis, non exsertis nec prominulis, atris, coriaceis, contextu indistincto, ostiolo minutissimo, obtuso, vix papillulato; ascis cylindræis, antice obtuse rotundatis, postice attenuato-pedicellatis p. sp. 70-80 \approx 6,5-7, ped 40-80 \approx 2-4, octosporis, paraphysibus filiformibus densis obvallatis; sporidiis recte monostichis, cymbiformibus, utrinque acutiuscule rotundatis 12 \approx 5-6, opace fuligineis, non vel grosse 1-2-guttulatis, per ætatem longitudinaliter fissis.

Hab. non rarum ad ramos fagineos emortuos in Staten island et in Fuegia. — Species habitu *Diatrypellis* plurimis accedens, notis fructificationis tamen mox dignoscenda. Iodi ops nulla.

40. **Hypoxylon chionostomum** Speg. F. Puigg. n. 254. — Irregulari²²⁴⁷ter glomerulosum, atro-carbonaceum, stromate plus minusve evoluto, peritheciis globosis plus minusve exsertis, 1 mm. diam., ostiolis obtuse papillatis subtruncatis disco albo donatis; ascis teretibus, p. sp. 180 \approx 20; sporidiis ellipticis fuligineis, 26-28 \approx 14-16.

Hab. ad corticem dejectum putrescentem in silvis pr. Apiahy Brasiliæ. — An huc *H. leucostomum* Cooke?

41. **Hypoxylon ramosum** Schw. (ubi?), Cooke Grevillea XI, 132. —²²⁴⁸ Convexum, pulvinatum, erumpens, atrum, 1 cm.; peritheciis subglobosis sparsis atris, nec prominulis, ostiolo pertusis; ascis cylindræis; sporidiis sublanceolatis, continuis, fuscis, rectis curvulisve, 16-18 \approx 3.5.

Hab. in ramis, Indiana Amer. bor.

42. **Hypoxylon cocoinum** Cooke Grev. vol. XI, pag. 76. — Sparsum, 2249
emergens, atrum, nitidum, subconoideum vel hemisphæricum, simplex vel confluens, ad basin applanatum; ascis cylindricis, stipitatis; sporidiis ovato-ellipticis, obtusis, simplicibus, atrofuscis, 10-12 \approx 6,6.

Hab. in stipite petiolisque *Cocos nucifera*, Malacca (MAIN-GAY). — *Sphaeria truncata* Schw. — Syll. I, n. 4275 — teste Cooke Grev. XV, p. 80 est forma subsparsa *Hyp. marginati*.

V. *Placoxylon* Sacc.

43. **Hypoxylon subvinosum** Speg. Fung. Guar. Pug. I, n. 192. — 2250
Stromatibus latissime irregulariterque subpulvinate-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 hemisphæricis, centro minute abrupteque papillulato-ostiolatis, carbonaceis; ascis cylindræis, 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 fuliginosis.

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

44. **Hypoxylon albo-stigmatosum** Speg. Fungi Guar. Pug. I, n. 197. 2251
— 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, laxe 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 exserto, 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 fuligineis.

Hab. ad ligna cariosa putrescentia in umbrosis uliginosis prope Guarapí Brasilæ.

45. **Hypoxylon guarapiense** Speg. Fung. Guar. Pug. I, n. 199. — 2252

Stromate majusculo 10-25 cm., primo epidermide tecto, dein ea secedente nudo, matrici arcte adnato, effuso, ambitu indeterminato, sterili, gradatim centrum versus subpulvino, 1-1,5 mm. crass., leniter undulato, non vel obsolete granuloso, primo furfuraceo-griseo, dein rufescente, postremo sordide fusco-rubiginoso; peritheciis monostichis, obovato-globosis, substantia atra stromatis immersis, coriaceis, 300-350 μ . diam, fuscis; ascis cylindratis, 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 fuligineis.

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

46. **Hypoxylon ochraceo-fulvum** Berk. et Cooke in Grev. XI, 133. — 2253

Effusum, tenue, ochraceo-fulvum, primitus suborbiculare, margine sterili, byssoideo, dein confluens irregulareque; peritheciis atro-fuscis, globosis, minimis, subprominulis, papillatis; ascis cylindratis; sporidiis ellipticis, continuis, fuscis, 8-10 \approx 4,5.

Hab. in corticibus Nirwab Jungle, India.

47. **Hypoxylon hæmatites** Lév., Cooke Grevillea XI, 133. — Effusum, 2254

crustaceum, indeterminatum, rugosum, læte aurantio-rubrum, demum ferrugineo-rubrum, intus nigricans; peritheciis densissime stipatis, subglobosis, prominulis, pertusis; ascis cylindratis; sporidiis ellipticis, utrinque attenuatis, atro-fuscis. 18 \approx 5.

Hab. in ligno in insulis Marquesas et Endeavour River Australiæ. — Subaffine *H. rubiginoso*, sed color vividior et sporidia majora.

48. **Hypoxylon piceum** Ellis in Amer. Nat. XVII, p. 193 et in Gre- 2255

villea XI, 132. — Effusum, subellipticum v. elongatum, plerumque confluens, 4-8 cm. long., atro-fuscum, rugosum, pulvere luteolo tectum, intus nigrum; peritheciis 2-3 seriatis, confertissimis, com-

pressis, ostiolo minuto, vix visibili; sporidiis navicularibus fuscis, 11-12 = 4.

Hab. in ligno putri, Jowa Amer. bor.

49. **Hypoxylon Fendleri** Berk. in Grevillea XI, 132. — Effusum, de- 2256
terminatum, crassum, rugosum, fulvum, demum atro-fuscum; peritheciis distinctis, globosis, elevatis, ostiolo papillato nigro; ascis cylindraceutis; sporidiis arcte ellipticis, rectis curvulisve, fuscis, 12-13 = 4.

Hab. in ligno putri, Venezuela. — *H. multiformi* subaffine.

50. **Hypoxylon ianthinum** Cooke in Grevillea XI, 132. — Stromate 2257
in ligno effuso, pulvero ianthino, demum nigricante; peritheciis stipatis, obovatis, vertice subrotundatis vel confluyendo planis, ostiolo minute papillato; ascis cylindraceutis; sporidiis ellipticis, obtusis, continuis, fuscis, 15 = 6.

Hab. in ligno putrescente in America boreali (RAVENEL).

51. **Hypoxylon rubiginosum** (Pers.) Fr. — Syll. I, p. 376. — *a*) **ro-** 2258
bustum Speg. F. Fueg. n. 190: stromatibus ligno indurato infuscatoque superficialibus crustaceis late effuso-pulvinatulis difformibus, 2-10 cm. long., 1-3 cm. lat., crassiusculis, abrupte obtusumque marginatis, scrupulosis non vel vix mammillosis, laxe hinc inde papillulosis, fusco-rubiginosis; sporidiis elliptico-navicularibus 10-15 = 8, fuliginosis. — *b*) **miserrimum** Speg. l. c.: stromatibus irregulariter sublinearibus, flexuosis, ligno dealbato, submucedineo, fragilissimo innato-effusis, non vel vix pulvinulatis ac marginatis, submammillosis, laxe papillulosis, fusco-rubiginosis; sporidiis ellipticis vel ovoideis, plus minusve inæquilateralibus, 12-15 = 5-7, grosse 1-2-guttulatis, fuliginosis.

Hab. vulgata ad ligna emortua in silvis per Fuegiam totam nec non in Staten island.

52. **Hypoxylon creoleucum** Speg. F. Fueg. n. 188. — Stromatibus cor- 2259
tice insidentibus, per peridermium erumpentibus, eoque secedente denudato-superficialibus, effuso-pulvinulatis 2-3 cm. long., 1 cm. lat., 1-1,5 mm. crass., obtuse marginatis, subrepandulis, superne convexulo-explanatis, non vel parce undulatis, non vel vix hinc inde papillulosis, sordide fusco-testaceis vel subrubiginosis, glabris intus albis; peritheciis globulosis e mutua pressione compressis, 450-600 μ . diam., coriacellis atris, contextu indistincto, immersis non vel vix prominulis, ostiolo non vix papillulato; ascis cylindraceutis antice obtuse rotundatis, postice in pedicellum longissimum attenuatis, p. sp. 65-85 = 6-7, ped. 120 = 1-3, octosporis, paraphy-

sibus nullis vel paucis filiformibus guttulatis immixtis; sporidiis recte vel suboblique monostichis, ellipticis vel navicularibus, utrinque obtusiuscule rotundatis, 11-12 \approx 5-6, non vel grosse 1-2-guttulatis, opace fuligineis.

Hab. non rarum in ramis dejectis putrescentibus Fagorum in Fuegia.

53. **Hypoxylon subeffusum** Speg. Fungi Guar. Pug. I, n. 204. — 2260

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 cylindraceutis, antice rotundato-truncatis, postice longissime attenuato-pedicellatis, p. sp. 55-65 \approx 2,5, 8 sporis, paraphysibus paucis, exilissimis, subfluxilibus obvalatis; sporidiis recte laxequae 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. Thomas Bras. — Species *H. effuso* peraffinis; an tantum ejusdem varietas?

54. **Hypoxylon intermedium** Speg. Fungi Guar. Pug. I, n. 203. — 2261

Stromatibus primo epidermide tectis dein erumpentibus v. cortice secedente nudis, matrice nigrificata innato-effusis, 3-5 cm. diam., vix pulvinatis ac undulatis, laxe gregariis v. confluentibus, ambitu irregulariter repandis, intus extusque sordide fusco-atris, opacis, minutissime (vix oculo nudo) et laxè punctulatis, superficiem *Dyatrypes Stigmatis* in mentem revocantibus; peritheciis elliptico-globosis, 350-400 μ . diam., monostichis, densissime constipatis, atris, carbonaceis, non prominulis, ostiolo papillulato, e stromate breviter exserto 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-fuligineis.

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 ostioliis prominulis sporidiisque utrinque rotundato-obtusis.

55. **Hypoxylon Caaguazu** Speg. Fungi Guar. Pug I, n. 205. — Stro- 2262
matibus matrice denudata ac nigrificata insidentibus, latiuscule ef-
fuso-pulvinatis, 5-10 cm. diam., 1-1,2 mm. crass., ambitu repan-
dulis, quandoque rotundatis quandoque effusis, superficie scrupu-
loso-undulatis ac per ætatem sæpius dense minutissimeque diffrac-
to-rimulosis, confertissime papilluloso-asperis, fusco-atris, opacis,
glabris; peritheciis globulosis, minutis, 200-250 μ . diam., densis-
sime stipatis, conoideo-prominulis ostioloque parvulo coronatis,
atris, carbonaceis, strato stromatico tenui, fusco-fibrosulo insiden-
tibus; ascis et paraphysibus mox fatiscentibus; sporidiis oblique
monostichis, navicularibus, utrinque acutato-rotundatis, 9-11 \approx 4-5,
opace fuligineis.

Hab. ad ligna putrida in umbrosis prope Paraguari Bras. —
Species pulchella ac satis distincta, in juventute plurimis chara-
cteribus *H. fusco-purpureo* ac *H. vinoso*, ut videtur, affinis.

56. **Hypoxylon latissimum** Speg. F. Guar. II, n. 80. — Stromatibus 2263
cortice innato-superficialibus, latissime expansis, 5-10 cm. diam.,
ambitu repando-sinuosis, pulvinulatis, 1,5 mm. crass. superne ap-
planatis, non vel vix hinc inde undulatis, margine abrupte subtrun-
cato-rotundatis ac effuso-subareolatis, atris vel fusco-atris opacis
in parte pulvinata laxè papillato-asperulis; peritheciis ellipticis, 1
mm, alt., 0,5-0,6 mm. crass., atris carbonaceis non exsertis nec pro-
minulis, ostiolo conoideo-papillæformi simplici in stromate vix pun-
ctulato-subexserto; ascis cylindræcis, antice rotundatis crasseque
tunicatis, postice breviter attenuato-pedicellatis, p. sp. 90-100 \approx 10,
octosporis, paraphysibus filiformibus longioribus guttulatis obval-
latis; sporidiis oblique vel subrecte monostichis, elliptico-navicu-
laribus 18-20 \approx 8, utrinque acutiuscule rotundatis, non vel grosse
1-2-guttulatis, fuligineis.

Hab. ad corticem crassiorem truncorum adhuc viventium in
silvis prope Guarapí Brasilæ. — Species inter *Hypoxylon* et *Num-
mulariam* ambigua; an huc *Hyp. Broomeanum* B. et C.?

57. **Hypoxylon ellipticum** Cooke et Mass. Grev. XVII, p. 70. — Pa- 2264
rallelum, ellipticum 3-5 mm. long., 2 mm. lat., convexo-planum,
atrum, opacum, intus concolor; ostiolis minutis, congestis, puncti-
formibus; ascis cylindræcis; sporidiis fusiformibus, continuis, fu-
ligineis, primitus nucleatis, 23-25 \approx 6-7.

Hab. in lignis decorticatis, Brisbane Australiæ (BAILEY). — Af-
fine *H. allantoideo* sed sporidiis ostiolisque diversum.

58. **Hypoxylon pseudopachyloma** Speg. F. Fueg. n. 191. — Stroma- 2265

tibus corticulis per peridermium persistens erumpentibus, superne nudis, longe lateque effusis 2-5 cm. long., 1-4 cm. lat., applanatis vix pulvinulatis, 1 mm. crass., non vel vix repandulo-submarginatis, carbonaceis, extus intusque aterrimis, fragilibus, sæpè ob sporidia exsilia nigro-pulverulentis, densiuscule minuteque papillulatis; peritheciis obovatis 750-800 μ . alt., 250 μ . diam., dense constipatis atris carbonaceis, superne applanatis non prominulis, ostiolo papillulato minuto; ascis cylindraceutis antice obtuse rotundatis, crasse tunicatis, 1-foveolatis, postice in pedicellum brevissimum attenuatis, 75-80 \approx 6, octosporis, paraphysibus parvis filiformibus crassis immixtis; sporidiis recte vel oblique monostichis, elliptico-navicularibus utrinque obtusiusculis, 9-15 \approx 4-6, non vel grosse 1-guttulatis, opace fuligineis.

Hab. vulgatum ad ramos emortuos Fagorum in Staten island et in Fuegia. — Species pulchella, habitu fere *Diatrypes Stigmatidis*, notis fructificationis mox dignoscenda; si hæc species v. altera (in Fung. arg. pug. IV, n. 132) typum *Hypoxyli pachylomatis* (Lév.) Mont. sistat, nunc nonnihil dubius sum! (Speg. l. c.).

59. **Hypoxylon Puiggarii** Speg. F. Puigg. n. 257. — Fusco-atrum, late 2266
crustaceo-effusum, 10-80 mm. long., stromate eximie evoluto, peritheciis vix prominulis globosis 0,5 mm. diam., ostiolo minutissimo papillulato areola impressa cincto donatis; ascis cylindraceutis, octosporis aparamphysatis, 50-60 \approx 4-5, ped. 20-25 \approx 2-3; sporidiis elliptico-navicularibus, fuligineis, 6-7 \approx 3.

Hab. ad corticem putrescentem ramorum in silvis prope Apiahy Brasiliæ.

60. **Hypoxylon leptascum** Speg. F. Puigg. n. 255. — Crustaceo-effu- 2267
sum, tenue, atrum 10-15 mm. long.; peritheciis stromate immersis, globosis 0,5 mm. diam. vix colliculoso-prominulis papillulato-ostiolatis; ascis longiusculis gracillimis, paraphysatis, octosporis, p. spor. 60-70 \approx 5; sporidiis elliptico-elongatis, inæquilateralibus, fuligineis, 10 \approx 4.

Hab. ad corticem putrescentem in silvis pr. Apiahy Brasiliæ.

61. **Hypoxylon irregulare** Cooke in Grevillea, XI, p. 133. — Irregula- 2268
riter effusum, atrum, tenue rugoso-undulatum, peritheciis stipatis, immersis, subglobosis, in superficie externa vix elevatis, ostiolis papillatis, demum deciduis; ascis cylindraceutis; sporidiis allantoideis, fuscis 10 \approx 3,5.

Hab. in ligno putri in insula Mauritiæ (AYRES). — *H. investienti* affine.

62. **Hypoxylon glomeratum** Cooke Grev. XI, p. 134. — Pulvinatum, 2269
convexum, mox confluens effusumque, atrum, crassum, in ligno nigricato expansum; peritheciis mediis, globosis, leniter vel vix prominulis; ostiolis punctiformibus; ascis cylindraceis; sporidiis arcte ellipticis, fuscis, $8 \approx 3$.

Hab. in ramis decorticatis in insula Mauritiæ. — Crassius quam *H. irregulare* sed sporidia minora.

63. **Hypoxylon Cesatianum** Cooke Grevillea XI, p. 133, *Hypoxylon* 2270
anthracodes Cesati Myc. Born. p. 19, nec Mont. — Effusum, indeterminatum, aterrimum, subrugosum; peritheciis irregularibus, majusculis, ostiolis punctiformibus; ascis cylindraceis; sporidiis amygdalæformibus, atro-fuscis, $20-22 \approx 10$.

Hab. in corticibus, Sarawak (BECCARI). — A *Nummularia anthracode* (Mont.) certe diversum.

64. **Hypoxylon hypoleucum** (B. et Br.) in Grevillea XI, p. 123, *Sphæ-* 2271
ria hypoleuca B. et Br. Ceylon Fungi n. 1116. — Peritheciis globoso-depressis, confluentibus, in mycelio arcte adnato parce innatis; ascis cylindraceis; sporidiis ellipticis, continuis, fuscis, $12 \approx 4$.

Hab. in corticibus Ceylon. — *H. udo* affine. — Cfr. Syll. II, n. 4229.

65. **Hypoxylon apiahynum** Speg. F. Puigg. n. 253. — Subcrustaceo- 2272
effusum atrum, 1-2 mm. diam., stromate parco; peritheciis globosis exsertis dense constipatis, 0,5 mm. diam., ostiolis minutis areolato-applanatis; ascis 8-sporis, mox diffluentibus; sporidiis minutis navicularibus fuliginis, $8-9 \approx 4$.

Hab. ad corticem ramorum putrescentium in silvis pr. Apiahy Brasilæ.

66. **Hypoxylon? Goliath** Speg. F. Puigg. n. 252. — Peritheciis ma- 2273
ximis, atris, globosis, dense majusculeque papilloso-verrucosis, ostiolo minuto zona levi subcincto coronatis, stromate concolore parcissimo junctis, 2-2,5 mm. diam.; ascis cylindraceis, octosporis, 18-20 μ . cr., mox diffluentibus; sporidiis giganteis fusiformibus, utrinque longissime setiformi-attenuatis, fuliginis, $100 \approx 12-14$, appendicula recta v. flexuosa, $15-25 \approx 1-2$.

Hab. ad corticem caudicis putrescentis in silvis prope Apiahy Brasilæ. — Species etiam prædistincta omnium partium fabrica ad *Roselliniam*, sectionis *Tassiellæ*, vergens.

67. **Hypoxylon? cyclopicum** Speg. F. Puigg. n. 251. — Peritheciis 2274
maximis atris, mammæformibus grosse transverse rugosis, ostiolo conico majusculo acuto coronatis, 2-3 mm. diam., dense constipa-

tis, stromate parcissimo concolore junctis; ascis cylindraceutis, octosporis mox diffluentibus, 15-16 μ . cr.; sporidiis elongatis inæquilateralibus, utrinque obtusis, fuliginis, 35-40 \approx 10-12.

Hab. in trunco decorticato in silvis prope Apiahy Brasilæ. — Species nobilissima ad *Roselliniam*, sectionis *Tassiellæ*, characteribus per plurimis vergens!

68. **Hypoxylon tinctor** (Berk.) Cooke Grev. XI, p. 133, *Diatrype?* 2275
tinctor (Berk.) Sacc. Syll. I, p. 200, *Sphæria* Berk. Dec. n. 96. —
 Ex Cooke l. c. sporidia elliptica, recta v. curvula, fusca, 18 \approx 8-9.

VI. *Endoxylon* Nitschke.

69. **Hypoxylon anthracoderma** Speg. F. Guar. II, n. 76. — Stroma- 2276
 tibus innato-erumpentibus difformibus late irregulariterque expansis, 1-3 cm. diam., parum incrassatis, crustaceo-carbonaceis durissimis, ambitu abruptiuscule marginatis, planissimis, oculo nudo vix lenissime densissimeque colliculoso-papillosis, papillis ostiolo stigmatiformi subimperspicuo instructis, aterrimis opacis, glabris; peritheciis elliptico-globosis, densissime constipatis, 250-300 μ . diam. sæpe e mutua pressione angulosis, superne non v. vix prominulis, ostiolo minutissimo perforatis, atris carbonaceis, subnitentibus; ascis cylindraceutis gracillimis longiusculis, p. sp. 70-80 \approx 5, ped. 50 \approx 2-3, aparthysatis, octosporis; sporidiis recte vel oblique monostichis, elliptico-navicularibus, utrinque obtusiusculis, 8-10 \approx 3,5-4 non vel grosse 2-guttulatis, fuliginis.

Hab. ad corticem crassiorem truncorum putrescentium in silvis pr. Guarapí Brasilæ. — Species trivialis inter *Placoxylon* et *Endoxylon* media, aliis per plurimis affinis, cum nulla autem comparata bene congruens.

70. **Hypoxylon magellanicum** Speg. F. Pat. n. 123. — Peritheciis ma- 2277
 jusculis, 1-1,5 mm. diam., globoso-depressis, superne convexo-applanatis, centro ostiolato-papillulatis, basi matrici parum infossis, stromate parcissimo interjunctis, pauci-aggregatis, atris, duris, fragilibus, glabris, levissimis; ascis cylindraceutis, apice obtusissime rotundatis v. subtruncatis, inferne longiuscule attenuato-pedicellatis, p. sp. 100-110 \approx 10, stip. 80-130 \approx 5, octosporis; paraphysibus filiformibus, densis crassis, guttulatis obvallatis; sporidiis oblique monostichis, elliptico-navicularibus, 15-17 \approx 8-9, utrinque acute rotundatis, non v. 1-2-grosse guttulatis, opace fuliginis, strato mucoso hyalino exiguo obvolutis.

Hab. ad ligna cariosa mucida Fagi antarcticæ in silvis prope Punta Arenas Patagoniæ. — Species *H. semiimmerso* peraffinis; pulvinuli sæpius 4-7-perithecigeri sed quandoque (rarissime) perithecia solitaria sparsa etiam occurrunt.

71. **Hypoxylon Balansæ** Speg. F. Guar. II, n. 77. — Stromatibus 2278
sublinearibus v. elliptico-elongatis, utrinque rotundatis sæpeque confluentibus, 1-3 cm. long., 2-4 mm. lat., 500-700 μ . crass., margine rotundatis, planis v. vix longitudinaliter leniterque undulatis, minute laxèque papillulosis, fusco-atris, subopacis carbonaceis, glabris; peritheciis densissime constipatis, globosis, 250 μ . diam., atris carbonaceis, ostiolo subconoideo non v. vix e stromate erumpenti-subprominulo, simplici; ascis mox diffluentibus, non visis; sporidiis cylindræis, utrinque subtruncato-rotundatis, 8-12 \times 4-5, nunquam inæquilateralibus, grosse biguttulatis, pallide fuligineis.

Hab. ad lignum denudatum mucidum dealbatumque in silvis subvirgineis prope Guarapí Brasilæ. — Species aliis plurimis, *Hyp. udo* præcipue, cognata, sporidiorum fabrica tamen mox dignoscenda.

72. **Hypoxylon immersum** Malbr. et Brun. Champ. Saint. III ser. 2279
p. 5. — Stromate ad lignum plus minus expanso, nunc minutissimo vel subnullo, linea nigrescente circa ostiolum manifesto, nunc plus minus evoluto, linea parum distincta, ligno penetrante, definito; peritheciis solitariis vel 2-3 gregariis, ligno immersis, nigris, subglobosis, apice subdepressis, collo curto, ostiolo nigro micante; ascis cylindræis, 120-170 \times 5-6, pedicellatis; paraphysibus gracilibus, guttatis, hyalinis; sporidiis monostichis, dilute brunneis, allantoidæis, rectis vel curvulis, obtusis, 17-18 \times 4.

Hab. in ramis decorticatis Populi, Saintes Galliæ.

73. **Hypoxylon prorumpens** (Fr.) Cooke Grev. XI, p. 134, *Sphæria* 2280
prorumpens var. *lignatilis* Fries Scler. Suec. n. 383. — Erumpens, inæquabile, nigrum, subinnatum, lineari-extensum; peritheciis irregulariter confluentibus; ascis cylindræis; sporidiis arcte ellipticis, fuscis, 6 \times 2.

Hab. in ligno denudato in Suecia. — Ab *Eutypa prorumpente* Syll. I, n. 642 diversissimum.

Sequitur dispositio *Hypoxyli* specierum sec. Cooke Grev. XI, p. 145, additis nonnullis mensuris sporidiorum.

- I. *Macroxylon*: majus, induratum, irregulare, intus fibrosum.
 a) Perithecia monosticha.
1. Hypoxylon cerebrinum Fee. (1224) (spor. 30 \times 8)
 2. » Wrightii B. et C. (1533)
 3. » cælatum Fr. (S. 2208)
 4. » corrugatum Fr. (S. 2209)
 5. » sclerophæum B. et C. (1341) (spor. 12 \times 5)
 6. » placentiforme B. (1535)
 7. » suborbiculare Curr. (1536)
 8. » Broomeanum B. et C. (1460)
 9. » viridi-rufum B. et Rav. (S. 2210)
- b) Perithecia stratosæ.
10. » Petersii B. et C. (1406)
 11. » ovinum Berk. (S. 2211)
 12. » stratosum Sacc. (S. 2212)
- II. *Phylacia*: stroma erectum, laccatum.
 a) Species perfectæ.
13. Hypoxylon turbinatum Berk. (1422 et S. 2213)
- b) Species imperfectæ.
- a. Hypoxylon Sagræanum Mont.
 = *Camillea Sagræana* (1320)
- b. » globosum Lév. (1426)
- c. » poculiforme Lév. (S. 2214)
- d. » Carteri Berk. (S. 2215)
- e. » ramulosum Schw. (S. 2216)
- III. *Sphæroxylon*: stroma superficiale, globosum vel subglobosum.
 a) Externe coloratum, nec nigrum.
14. Hypoxylon coccineum Bull. (1333 et S. 2217)
 15. » Howeianum Peck (1338) (spor. 6-7 \times 3)
 16. » commutatum Nits. (1350 et S. 2218)
 17. Hypox. deciduum B. et Br. (1403) (spor. 15-18 \times 3)
 18. » enteromelum Schw. (1355) (spor. 10 \times 4)
 19. » suberosum B. et C. (1359) (spor. 22 \times 7)
 20. » pulchellum Sacc. (1335)
 21. » Veræ-crucis B. et C. (S. 2219)
 22. » argillaceum Pers. (1337)
 23. » palumbinum Quél. (1339)
 24. » rutilum Tul. (1344)
 25. » Laschii Nits. (1345 et S. 2223)
 26. » luridum Nits. (1347)
 27. » Bagnisii Sacc. (1348)
 28. » notatum B. et C. (1360)
 29. » gilvum Jungh. (1353)
 30. » Scleroderma Mont. (1334)
 31. » distillatum B. et Br. (1340) (spor. 10-11 \times 4-5)
 32. » Botrys Nits. (1349)
 33. » fuscum Pers. (1368)
 34. » albo-cinctum E. et E. (S. 2220)
 35. » nectrioides Sp. (S. 2221)
 36. » bicolor B. et C. (1461 et S. 2222)
- b) Externe nigrum.
37. » multiforme Fr. (1376 et S. 2226)
 38. » mbaiense Sp. (S. 2224)
 39. » dubiosum Sp. (S. 2225)
 40. » teres Schw. (1493) (spor. 16 \times 8)
 41. » majusculum Cooke (1369)
 42. » Malleolus B. et C. (1413) (spor. 20-22 \times 4)
 43. » hians B. et C. (S. 2227)
 44. » areolatum B. et C. (1386)
 45. » Avellana Ces. (1425)
 46. » Hookeri Berk. (S. 2228)
 47. » nodulorum Lév. (S. 2229)
 48. » Fragaria Ces. (1393) (spor. 55-60 \times 12)
 49. » cohærens Pers. (1370)
 50. » leucostigma Lév. (1391)

51. *Hypoxylon comaropsis* Mont. (1398)
 52. » *Bomba* Mont. (1399)
 (spor. 16 × 7)
 53. » *Murrayi* B. et C. (1397)
 (spor. 13-15 × 5-7)
 54. » *Placenta* Link. (1404)
 55. » *turbinulatum* Schw. (1407)
 56. » *campotrichum* Mont. (1409)
 57. » *porosum* Mont. (1381)
 58. » *glomiforme* B. et C. (1364)
- IV. *Clitoxylon*: *Stroma pulvinatum*
 plus v. minus convexum nec effusum.
- a) *Stroma extus coloratum nec nigrum.*
59. *Hypoxylon xanthocreas* B. et C.
 (1392, 1361)
 (spor. 10 × 5)
 60. » *hæmatostroma* Mont. (1435 et
 S. 2232)
 (spor. 10-12 × 3,5)
 61. » *epiphlæum* R. et C. (1444)
 62. » *hypomiltum* Mont. (1336)
 63. » *decortiatum* Schw. (1854)
 (spor. 12-14 × 4)
 64. » *irradians* Mont. (1424)
 65. » *discoideum* Cooke (1346)
 66. » *vinosum* Mont. (1365)
 67. » *vividum* B. et Br. (1356)
 68. » *quisquiliarum* Mont. (1366)
 69. » *pruinatum* Klotzsch (942)
 70. » *discolor* B. et C. (1363)
 (spor. 12 × 7,5)
 71. » *Eterio* B. et Br. (1133)
 72. » *endoxanthum* Mont. (1362)
 (spor. 13 × 5)
 73. » *Holwayi* Ellis (S. 2231)
 74. » *flavo-fuscum* B. et Br. (S. 2230)
 75. » *polyporoideum* Berk. (S. 2233)
 76. » *umbilicatum* Sp. (S. 2234)
 77. » *sandvicense* Reich. (S. 2235)
 78. » *pallidum* E. et E. (S. 2236)
 79. » *plumbeum* Sp. (S. 2237)
- b) *Stroma extus nigrum.*
80. » *leucocreas* B. et R. (1388)
 (spor. 5 × 2,5)
 81. » *lucidulum* Mont. (1396)
 82. » *microsporum* Ces. (1417)
 83. *Hypoxylon exiguum* Cooke (S. 2238)
 84. » *stigmoideum* Ces. 1378.
 (spor. 12 × 8)
 85. » *annulatum* Schw. (1384)
 (spor. 9 × 3)
 86. » *Pouceanum* B. et C. (S. 2239)
 87. » *durissimum* Schw. (1447)
 (spor. 8 × 4)
 88. » *chalybeum* B. et Br. (945)
 89. » *obesum* Fr. (1401)
 90. » *marginatum* Schw. (1414)
 (9-10 × 5 Nord Amer.)
 (8-9 × 4 Africa)
 (7,5 × 3,5 Cuba)
 91. » *polyspermum* Mont. (1479)
 (spor. 5 × 2)
 92. » *callostroma* Schw. (1472)
 (spor. 12 × 5)
 93. » *smilacicolum* Howe (1371)
 94. » *rimarum* B. et C. (S. 2240)
 95. » *Sassafras* Schw. (1451)
 (spor. 12-14 × 5)
 = *H. fucicolor* B. et C.
 96. » *xanthostromum* Schw. (1507)
 (spor. 12 × 6)
 97. » *Catalpæ* Schw. 1509.
 (spor. 13 × 6)
 98. » *approximans* Ces. (1481)
 99. » *exurgens* Mont. (1387)
 100. » *transversum* Schw. (1505)
 (spor. 12 × 4)
 101. » *Javanicum* Lév. (1505)
 102. » *Berkeleyi* Sacc. (S. 2241)
 103. » *leucostomum* Cooke (S. 2242)
 104. » *pauperatum* Karst. (1373)
 105. » *Ayresii* Berk. (S. 2243)
 106. » *undosum* Lév. (1410)
 107. » *spondylinum* Fr. (1542)
 108. » *ramosum* Schw. (S. 2248)
 109. » *monticulosum* Mont. (1396)
 110. » *mauritanicum* D., R. et M.
 (1418)
 111. » *Phoenix* Fr. (1466)
 (spor. 22-25 × 8-9)
 112. » *cocoinum* Cooke (S. 2249)
 113. » *culmorum* Cooke (1416)
 114. » *Kurzianum* Sacc. (1429)
 115. » *subnigricans* Sp. (S. 2244)

116. *Hypoxylon Bovei* Sp. (S. 2245)
 117. » *diatrypelloides* Sp. (S. 2246)
 118. » *chionostomum* Sp. (S. 2247)
- V. *Placoxylon*: *Stroma late effusum*.
- a) *Extus coloratum nec nigrum*.
119. *Hypoxylon purpureum* Nits. (1430)
 120. » *perforatum* Schw. (1431)
 121. » *atro-purpureum* Fr. (1433)
 122. » *rubiginosum* Pers. (1434 et S. 2258)
 123. » *hæmatites* Lév. (S. 2254)
 124. » *trugodes* B. et Br. (1439)
 (19 μ . longa)
 125. » *murcidum* B. et Br. (1478)
 (spor. 10 \times 5)
 126. » *piceum* Ellis (S. 2255)
 127. » *Fendleri* Berk. (S. 2256)
 128. » *anthochroum* B. et Br. (1442)
 (spor. 10 \times 4-5)
 129. » *fusco-purpureum* Schw. (1446)
 (spor. 14 \times 7)
 130. » *florideum* B. et C. (1440)
 (spor. 10 \times 3,5)
 131. » *ianthinum* Cooke (S. 2257)
 132. » *atro-punctatum* Schw. (1102)
 133. » *capnodes* Berk. (1113)
 134. » *jecorinum* B. et Rav. (1445)
 (spor. 9 \times 4)
 135. » *crocopeplum* B. et C. (1437)
 (spor. 13-14 \times 8)
 136. » *crocatum* Mont. (1438)
 137. » *miniatum* Cooke (1332)
 138. » *subgilvum* B. et Br. (1443)
 139. » *ochraceo-fulvum* B. et C.
 (S. 2253)
 140. » *chrysoconium* B. et Br. (1436)
 141. » *subvinosum* Sp. (S. 2250)
 142. » *albo-stigmatosum* Sp. (S. 2251)
 143. » *guarapiense* Sp. (S. 2252)
 144. » *creoleucum* Sp. (S. 2259)
- b) *Extus nigrum*.
145. *Hyp. Cesatianum* Cooke (S. 2270)
 146. » *stygium* Lév. (1452)
 147. » *tormentosum* Ces. (1465)
 (spor. 7,5 \times 3,5)
 148. » *stigmatum* Cooke (1453)
149. *Hypoxylon oodes* Berk. (1466)
 (spor. 15-17 \times 7)
 150. » *bifrons* Not. (1483)
 151. » *æneum* Nits. (1483)
 152. » *hypoleucum* B. et Br. (S. 2271)
 153. » *epirhodium* B. et R. (1457)
 (spor. 9 \times 3,5)
 154. » *punctulatum* B. et R. (1534)
 155. » *tinctor* Berk. (741)
 (spor. elliptica recta v.
 curvula fusca 18 \times 8-9)
 156. » *macrosporum* Karst. (1473)
 157. » *serpens* Pers. (1448)
 158. » *Archeri* Berk. (1449)
 159. » *effusum* Nits. (1450)
 160. » *vogesiaceum* Pers. (1454)
 161. » *fragile* Nits. (1459)
 162. » *Lenormandi* B. et C. (1458)
 (spor. 10-12 \times 7)
 163. » *investiens* Schw. (1470)
 (spor. 8-10 \times 4)
 164. » *concurrentis* B. et C. (1474)
 (spor. 10 \times 5)
 165. » *crustaceum* Nits. (1453)
 166. » *reticulatum* K. (1454)
 167. » *subterraneum* Fuck. (1462)
 168. » *unitum* Fr. (1476)
 169. » *colliculosum* Schw. (1477)
 (spor. 12-13 \times 5)
 170. » *Caries* Schw. (1510)
 (spor. 10 \times 3,5)
 171. » *allantoideum* Cooke (1480)
 172. » *Michelianum* Not. (1482)
 173. » *illitum* Schw. (1511)
 (spor. 14-16 \times 4)
 174. » *subeffusum* Sp. (S. 2260)
 175. » *intermedium* Sp. (S. 2261)
 176. » *Caaguazu* Sp. (S. 2262)
 177. » *latissimum* Sp. (S. 2263)
 178. » *ellipticum* C. et M. (S. 2264)
 179. » *pseudopachyloma* Sp. (S. 2265)
 180. » *Puiggarii* Sp. (S. 2266)
 181. » *leptascum* Sp. (S. 2267)
 182. » *apiahyum* Sp. (S. 2272)
 183. » *Goliath* Sp. (S. 2273)
 184. » *cyclopicum* Sp. (S. 2274)
 185. » *irregulare* Cooke (S. 2266)
 186. » *glomeratum* Cooke (S. 2269)

187. *Hypoxylon Beaumontii* B. et B. (1848)
(spor. non septata, elliptica, fusca)
188. » *atramentosum* (1503)
189. » *bipapillatum* B. et C. (1467)
(spor. 14-16 × 6-7)
190. » *incrustans* P. (1504)
- VI. *Endoxylon*: stroma plus vel minus immersum.
191. *Hypoxylon udum* Pers. (1485)
192. » *minutum* Nits. (1486)
193. » *semi-immersum* Nits. (1487)
194. » *Massaræ* Not. (1141)
195. » *anthracoderma* Sp. (S. 2276)
196. » *magellanicum* Sp. (S. 2277)
197. » *Balansæ* Sp. (S. 2278)
198. » *immersum* M. et B. (S. 2279)
199. » *prorumpens* (Fr.) C. (S. 2280)
- Species dubiæ.
200. *Hypoxylon sclerotioideum* B. et C. (1351)
201. » *Gangræna* Ces. (2358)
(Videtur *Sclerotium*)
202. » *lobatum* Fr. (1499)
203. » *Glomus* B. et C. (1394)
204. » *Uranis* Mont. (1500)
205. » *exertum* Fr. (1501)
206. » *exaratum* Schw. (1506)
207. » *sphæriostomum* Schw. (1508)
208. » *hydnicolum* Schw. (1471)
209. » *arecarium* Bory (1468)
210. » *lycogaloides* B. et Br. (1342)
(spor. 20 × 10, verrucosa, olivacea)
211. *Hypox.?* *solidum* B. et C. (1352)
(spor. 35-40 × 7, fusoides, 1-septata, fuscella. — An novi generis typus?)

KRETZSCHMARIA Fr. S. Veg. p. 403, s. ampl. *Hypoxylon* sect. IV, *Cænopus* Sacc. Syll. I, p. 388 e. p. (Etym. a cl. ED. KRETZSCHMAR, viatore et botanico), *Rhopalopsis* Cooke Grev. XI, p. 93. — Dense cæspitosa, effusa; capitula vel clavulæ breves, atræ, carbonaceæ, nunc subindivisæ et stipitatae, nunc ramulis brevibus intricatis insertæ. Asci cylindracei, suboctospori. Sporidia ovato-fusoidea, continua, fuliginea. — Genus inter *Xylariam* et *Hypoxylon* medium.

a) Stromate simplici.

1. **Kretzschmaria Clavus** Fr. Summa Veg. pag. 409, *Sphaeria Clavus* 2281
Fr. Linnæa V, pag. 543. — Tuberoso-carbonacea, fragilis, glaber-rima; capitulis rotundatis, subdepressis, levibus, 3-4 mm. lat., stipe brevi cylindrico arrhizo; peritheciis paucis amplis, connatis, stromate immersis, ostioli punctiformi-prominulis.
Hab. in truncis putridis silvarum Brasiliæ (BEYRICH), Ceylon (BECCARI, BERKELEY), Cuba, St. Vincent, Amazon (BERKELEY).
2. **Kretzschmaria cænopus** (Mont.) Vide Syll. I, n. 1488.
3. **Kretzschmaria aggregata** (W. et Curr.) Vide Syll. n. 1427.
4. **Kretzschmaria Angolensis** (W. et Curr.) Vide Syll. n. 1519.
5. **Kretzschmaria micropus** (Berk.) Vide Syll. n. 1491.

6. **Kretzschmaria congesta** (B. et Br.) Vide Syll. n. 1402.
 7. **Kretzschmaria? Colensoi** (Berk.) Vide Syll. n. 1492.
 8. **Kretzschmaria confusa** (Berk. et Cooke) Sacc. *Rhopalopsis con-* 2282
fusa Berk. et Cooke in Grevillea XII, pag. 2. — Gregaria, stipi-
 tata, simplex; capitulis globoso-depressis, glaucis, demum nigris,
 in stipitem flexuosum attenuatis; peritheciis innatis, globosis, ostio-
 lis punctiformibus; ascis sporidiisque non visis.

Hab. in ligno in Brasilia.

9. **Kretzschmaria Berkeleyana** (Cooke) Berl. et Vogl. Add. Syll. p. 56, 2283
Hypoxylon cænopus var. Berk. in Herb. *Rhopalopsis Berkeleyana*
 Cooke in Grev. XII, p. 2. — Cæspitibus suborbicularibus, 2,5-5 cm.
 latis; stromatibus clavatis, stipitatis, superne applanatis, dense con-
 gestis, atris, opacis, simplicibus, rarissime confluentibus, in stipitem
 brevem, rugulosum infra attenuatis; peritheciis minutis, numero-
 sissimis, compressis, prominulis; ascis cylindraceis; sporidiis elli-
 pticis, inæquilateralibus, continuis, fuscis, 8-10 \times 4.

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

10. **Kretzschmaria guaranitica** Speg. Fungi Guar. Pug. I, n. 207. — 2284
 Stromate solitario, extus atro, intus albo-farcto, glabro; stipite deor-
 sum insititio recto v. curvo, irregulariter incrassato-scruposo, gla-
 bro v. vix pruinuloso, sursum recto, erecto, gracili, 20-30 mm.
 long., 0,5-1 mm. crass., tereti, apicem versus gradatim leniterque
 attenuato, fusco-atro, longitudinaliter minute denseque granuloso,
 glabro, vertice abrupte in clavulam expanso; clavula plus minus-
 ve regulariter hemisphærico-lenticulari, 5-8 mm. diam., 1 mm.
 crass., margine acute rotundata, inferne sterili, levi, superne
 convexula, fertili, densiuscule mammilloso-papillata, atra, perithe-
 ciis monostichis, globoso-subdepressis, 400-450 μ . diam., extus
 atris, crassiusculis, coriacellis, e stromate parum prominulis, ostiolo
 umbonato-papillato, apice sæpius minute umbilicato ac zona ful-
 vella, vix perspicua, cincto donatis; ascis cylindraceis, sursum ob-
 tusissime rotundatis, crassissime tunicatis, obturaculo majusculo,
 medio perforato, jodii ope intense cærulescente 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 fuliginæis,
 utrinque rotundatis, 20-22 \approx 9-10, extremitate infera cristula hya-
 lina, decidua, hemisphærica, stricta ornatis.

Hab. ad ramos dejectos putrescentes in silvis subvirgineis pro-

pe Guarapi Brasilæ. — Species pulchra distinctissima, inter genera *Kretzschmaria* et *Poronia* media.

b) Stromate multipartito.

11. **Kretzschmaria cetrarioides** (W. et Curr.) Vide Syll. I, n. 1489.
12. **Kretzschmaria lichenoides** (B.) Teste Cooke Grev. XI, pag. 94.
13. **Kretzschmaria Puiggarii** (Speg.) Vide Syll. n. 132 (exclusa *Xyl. contracta* Speg. quæ var. *X. bicipitis*).
14. **Kretzschmaria Kurziana** (Curr.) Teste Cooke Grev. XI, pag. 94, nec *Hypoxyton Kurzianum* Sacc. n. 1429, quod, sub hoc ipso nomine incorrecto a Cookeo communicatum, descripsi.
15. **Kretzschmaria microcephala** (Mont) Vide Syll. n. 1256.
16. **Kretzschmaria xylarioides** (Speg.) Vide Syll. n. 1490.
17. **Kretzschmaria truncata** Pat. Bull. Soc. Myc. 1888, p. 109, t. XIX, 2285
f. 4. — Stromate sæpius ramoso, interdum simplici, omnino fulvo, e stipitibus basi attenuatis, 5-10 mm. long., 2-3 mm. cr., in capitulum lenticulare, convexum, 5-7 mm. diam. supra mammillatum, ostiolis nigris et prominulis punctatum desinentibus, efformato, intus albo, contextu fibroso, ex hyphis hyalinis, crassis constituto; peritheciis ovoideis, nigris, in parte superiore disci dispositis; ascis cylindræis, 110-130 = 6-7, apice puncto amyloideo, minuto notatis; sporidiis monostichis, brunneis, fusoideis, 15 = 5, 2-guttatis.
Hab. in radicibus putrescentibus arboris cujusdam, Puerto-Zamuro Venezuelæ.
18. **Kretzschmaria proxima** Pat. Journ. Bot. 1890, p. 63. — Stro- 2286
mate pondere levi, nigro, massam convexam, pulvinatam plus minus divisam efficiente, infra gerente ramulos graciles, confluentes, in divisiones breves inflatas, supra rotundatas lateraliter compressas et perithecia 4-5 includentes partitos, stromatis contextu nigro-rufo; peritheciis ovoideis, nigris ostiolo emergente acuto præditis; sporidiis utrinque attenuatis, subinæquilateralibus, 24-28 = 8-10, brunneis.
Hab. in ligno emortuo, M. Bavi Tonkin. — A *K. Clavo* et *K. cænopode* differt sporidiis majoribus et stromate magis diviso, a *K. cetrarioide* ostiolis minoribus, ramorum dispositione etc.

PENZIGIA Sacc. Myc. Malac. pag. 20 [1888], (Etym. ab eximio et amicissimo prof. PENZIG, de fungis citricolis optime merito). — Stromata subglobosum v. hemisphæricum vel obpiriforme, intus plerumque radiato-fibrosus (nunquam concentricè zonatum), extus cru-

staceo-laccatum (pallens), leve; perithecia stromate omnino immersa, collis brevibus vel subnullis; ostiola punctiformia non exstantia; asci octospori, paraphysati, stipitati; sporidia oblongo-fusoidea, majuscula, fuliginea. — A gen. *Daldinia* differt stromate extus pallido, intus non concentricè zonato; a gen. *Xylaria* stromate subgloboso, peritheciis omnino immersis. — *Sarcoxyton* Cooke (a *sarx* caro) inter Melogrammeas locatum (!), sistit hujus generis species (initio?) subcarnosas.

I. *Eu-Penzigia* Sacc. Stroma coriaceo-carbonaceum.

1. **Penzigia dealbata** (Berk. et Curt.) S. et P. Myc. Mal. n. 101, *Xylaria dealbata* Berk. et Curt. Exot. Fungi Schw. pag. 284, Sacc. Syll. Pyr. I, p. 323. — Stromatibus pallidis, obpiriformibus, 1½ cm. longis, crustaceo-fragilibus, levissimis, obsolete punctulatis et areolatis, intus laxè fibrosis (in exemplaribus ab insectis vexatis); stipite e basi nodulosa subcylindrico, subcompresso, 5-7 mm. longo; peritheciis periphericis, globulosis, ¾ mm. diam., fuscis, ostiolo in crusta latente; sporidiis fusiformibus, utrinque acutiusculis, leniter curvis, 28-32 = 7-8.

Hab. in truncis, Surinam, Brasilia et Malacca.

2. **Penzigia cranioides** Sacc. et Paol. Myc. Malac. n. 100, t. II, f. 1. — Stromate e basi applanata vel subexcavata globoso-hemisphærico, levissimo, crustaceo-fragili, pallide v. sordide argillaceo, minutissime nigro-punctato, 3 cm. lato, intus radiatim fibroso, fibris albidis nigrisque alternantibus; peritheciis stromate omnino immersis, periphericis, stipatis, globulosis, extus argillaceis, vix 1 mm. diam., ostiolis in crusta latentibus, punctiformibus, non emergentibus, ¼ mm. longis; ascis cylindricis, in stipitem longum sensim attenuatis, 130-140 = 10, octosporis, filiformi-paraphysatis; sporidiis oblique monostichis, oblongo-fusoideis, 1-3-guttatis, 25-30 = 7-6, fuligineo-atris.

Hab. in truncis penins. Malacensis Asiæ. — Ab affini *Penzigia compuncta* differt stromatibus et peritheciis multo minoribus sporidiisque duplo brevioribus.

3. **Penzigia obovata** (Berk.) Speg. F. Puigg. n. 260, *Xylaria* Berk. — Syll. I, p. 317. — Stromatibus sparsis v. subcæspitosis, globosis, ovatis v. obovatis, 8-15 mm. diam., sæpe subundulatis v. hinc inde obtuse submammillosis, extus coffeicoloribus v. fusco-testaceis, glaberrimis, oculo nudo levibus, sub lente dense leniterque granuloso-papillosis sessilibus vel brevissime stipitatis, intus primo e basi radiatim car-

noso-fibrosis, dein araneosis, postremo cavis ligneo-albis cortice tenuissimo fragili; peritheciis densissime constipatis globulosis majusculis, 0,7-1 mm. diam., extus non prominulis, cortice stromatis innatis et substantia subflocculosa ligneo-alba obvolutis; ascis cylindræis apice obtuse rotundatis, longiuscule attenuato-pedicellatis, p. sp. 200 \approx 10, ped. 8-100 \approx 2-5, octosporis dense paraphysatis; sporidiis oblique monostichis cylindræo-fusoideis, 28-30 \approx 7-8 inæquilateralibus fuligineis.

Hab. ad truncos dejectos putrescentes in silvis prope Apiahy Brasiliæ et in ins. S. Vincentii, Guiana, Venezuela et Cuba. — Specimina typica *Xylariæ obovatæ*, vix a Puiggarianis cortice externe obscuriore et sub lente levi, interne fibris v. medulla corticali deficientibus recedunt.

4. **Penzigia cretacea** (B. et Br.) Sacc. et Paol. l. c. n. 100, *Hypoxyton* 2290 *cretaceum* B. et Br. Fungi Brisb. p. 405, t. XLV, f. 2, 3, 4, 5. — Subglobosa, stipitata, e candido alba, subrugosa, lineis tenuibus fuscis reticulata, ostiolis nigris minute punctata, intus stratis ligneis, fragilibus, e stipite radiantibus formata; peritheciis oblongis, nigris, ostiolis vix prominentibus munitis; sporidiis oblongis, brunneis, continuis, finibus. 35-50 \approx 12-20.

Hab. ad truncos, Brisbane (F. M. BAILEY). — Stromata 25-35 mm. alt.; stipes 40-10 mm. longus.

- II. *Sarcoxyton* Cooke Grev. XII, p. 50. Stroma subcarnosum; perithecia submembranacea.

5. **Penzigia lycogaloides** (Berk.) Sacc., *Hypoxyton* Berk. — Syll. I, p. 355. — *Sarcoxyton* Cooke Grev. XII, p. 50.
6. **Penzigia compuncta** (Jungh.) Sacc. et Paol. l. c., n. 100. *Sphæria* Jungh., *Xylaria* Berk. — Syll. I, p. 325. — *Sarcoxyton* Cooke Grev. XII, pag. 50.

NUMMULARIA Tul. — Syll. I, p. 395.

1. **Nummularia pezizoides** Ell. et Ev. in Torr. bot. Club. 1884, p. 74. 2291 — 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.

2. **Nummularia Baileyi** (B. et Br.) Cooke in Grevillea XII, pag. 6, 2293
Hypoxylon Baileyi B. et Br. — Erumpens, orbicularis, cupulata margine incrassato, 4-7 mm. diam., elevato, disco ostiolis prominulis asperato; peritheciis elliptico-ovatis, centro immersis; ascis cylindricis; sporidiis ellipticis, fuscis, variabilibus, 13-20 μ . longis.
Hab. in ligno, Brisbane Australiæ (BAILEY).
3. **Nummularia Glycyrrhiza** (Schw.) Sacc. Syll. I, pag. 401, Cooke in Grevillea XII, p. 6. — Sporidia 11-13 \approx 4,5-5.
4. **Nummularia hypophlæa** (B. et Rav.) Cooke in Grevillea pag. 51. — Huc ducendum, teste Cooke, *Anthostoma hypophlæum* (B. et Rav.) Sacc. Syll. I, pag. 306.
5. **Nummularia Macula** (Schwz.) Cooke in Grevillea XII, p. 6, *Sphæ-* 2293
ria Macula Schw. Syn. Car. n. 38. — Suborbicularis, erumpens, convexo-applanata, atra, ostiolis minutis punctiformibus notata; ascis cylindræis; sporidiis late ovalibus, atro-fuscis, 11 \approx 9.
Hab. in cortice Platani in Amer. bor.
6. **Nummularia Clypeus** (Schw.) Cooke in Grevillea XII, p. 6, *Sphæ-* 2294
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 cylindræis; sporidiis ellipticis, utrinque attenuatis, amygdalæformibus, continuis, fuscis, 20 \approx 8.
Hab. in ramis Catalpæ etc. in Amer. bor. (Doct. CURTIS).
7. **Nummularia australis** Cooke in Grevillea XII, p. 6. — Stromate 2295
cortice innascente, erumpente, effuso, determinato, sæpe disciformi, convexo, impolito, atro; peritheciis subglobosis, parvulis, 1-2-serialibus; ostiolis externis, vix visibilibus; ascis cylindræis; sporidiis 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).
8. **Nummularia discoidea** (Lév.) Berl. et Sacc. *Sphæria discoidea* 2296
Lév. in Ann. Sc. Nat. 1863, p. 295. — Stromate immerso, erumpente, effuso, disciformi, applanato, carbonaceo nigro; peritheciis magnis, verticalibus, obtectis, collis brevibus; ostiolis conicis prominentibus, nitidis, fossula orbiculari circumdatis; paraphysisibus filiformibus continuis; ascis cylindricis; sporidiis octonis, uniseri-
libus, ellipsoideis, obtusis, continuis, subopacis, diametro quadruplo longioribus.
Hab. ad truncos vetustos siccos, Tequendama Novæ Granatæ (LINDIG).

9. **Nummularia macrospora** Pat. Champ. N. Caled. p. 8, t. 17, f. 6. 2297

— Stromate orbiculari, 2-5 cm. diam., 5 mm. cr., subtus plano vel leniter concavo, centro affixo, nigro, pulvere rubiginoso tecto, supra plano vel convexo, cinereo, sub lente ob ostiola prominula punctulato; peritheciis magnis, rectis, elongatis, confertis; ascis 8-sporis, apice cylindraceo iodo cœrulescente; sporidiis 1-stichis, brunneis, ellipsoideis, subinæquilateralibus, $35-40 \approx 10-13$.

Hab. in truncis Novæ Caledoniæ.

10. **Nummularia cæspitosa** Pat. Bull. Soc. Myc. 1888, p. 110, t. XIX, 2298

f. 5. — Stromate brunneo-rufescente, orbiculari, 8-12 mm. diam., 3-4 mm. cr., supra plano, ostiolis punctato, subtus sæpius subconcavo, breviter stipitato, ambitu sulcis 1-2 concentricis infra notato; contextu brunneo; peritheciis globosis, nigris, 1 mm. diam., ostiolis punctiformibus, subprominulis; ascis cylindraceis, stipitatis, utrinque obtusis, 260 μ . long., supra pertusis, 8-sporis; sporidiis monostichis, $40 \approx 8-10$, oblongis, utrinque plus minus angustatis, brunneis, rectis vel inæquilateralibus.

Hab. in truncis vetustis, San Fernando Venezuelæ. — *N. macrosporæ* valde affinis, ab ea differt peritheciis minutis et globosis, sporidiis majoribus etc.

11. **Nummularia guaranítica** Speg. Fung. Guar. Pug. I, n. 190. — Stro- 2299

matibus 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 pruina sæpe subcrustacea, cœrulescenti, alba vestito, deinde nudo, glabro, fusco-atro, levi vel vix sub lente valida minutissime punctulato; peritheciis elliptico-cylindraceis, erectis, densissime constipatis, 1 mm. altis, 250-300 μ . diam., atris, coriaceis, ostiolo minutissimo, non vel vix stromatis superficiem attingente donatis; ascis cylindraceis, sursum rotundato-truncatis, crassiusculeque tunicatis, deorsum modice attenuato-stipitatis, p. spor. $75 \approx 6$, 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 Brasilæ. — Species pulchella distinctissima, sporidiis vix coloratis, a genere nonnihil recedens.

12. **Nummularia rumpens** Cooke in Grevillea XII, p. 51, *Anthostoma rumpens* (Cooke) Sacc. Syll. I, p. 306, *Diatrype* Cooke F. Tex. 143.

13. **Nummularia pusilla** Sacc. Hedw. 1889, t. II, f. 3. — Stromatibus 2300
ratione generis perexiguus, exacte applanatis, nigricantibus, ellipticis vel oblongis vel sinuosis, 2 mm. diam. v. 4-5 mm. long. 2 mm. lat. vix $\frac{1}{2}$ mm. crass. peridermio secedente mox superficialibus, ubique fertilibus, nigricantibus, nitidulis, margine rectangulo, ambitu verticali; disco levi, ostioli punctiformibus, confertiusculis, marginulatis, haud prominulis (non nisi lente visibilibus); peritheciis parallele stipatis tereti-oblongis, sæpe inæqualibus $\frac{1}{3}$ mm. alt., $\frac{1}{6}$ mm. crass.; ascis cylindræis (jam fere resorptis); sporidiis octonis, late fusoides, subrectis, utrinque acutiusculis, 18-22 \approx 6, varie guttatis, fuliginæis.

Hab. ad ramos emortuos Bursariæ spinosæ, Callington Austral. merid. (TEPPER). — Affinis videtur *Nummulariæ Cyclisco* (Mont.) [Syll. Pyr. I, p. 371 (Hypox.)], *N. microstictæ* (Mont.) [Syll. Pyr. I, p. 371 (Hypox.)], *N. scutatæ* B. et C. et *Hypox. stigmoideo* Ces. [Syll. Pyr. I, p. 364], sed forma et parvitate stromatis non pruinosi, sporidiis majusculis non caudatis etc. bene distincta.

14. **Nummularia testudinea** Cooke in Grevillea XII, p. 7. — Subor- 2301
bicularis, convexa, fusca; margine tenui sterili; superficie demum in plagas minutas, hexagonas rimoso-diffracta, plagis cum peritheciis innatis convenientibus; peritheciis centralibus, congestis, globosis; ascis cylindricis; sporidiis ellipticis, fuscis, 5 \approx 3.

Hab. in corticibus in Africa occid.

15. **Nummularia mauritanica** Berk. et Cooke in Grevillea XII, p. 6. 2302
— Discoidea, demum confluens irregularisque, erumpens, convexo-applanata, levis, atra; ostioli obsoletis; peritheciis elongato-compressis; ascis cylindræis; sporidiis ellipticis, utrinque rotundatis, fuscis, 8 \approx 4.

Hab. in corticibus in insula Mauriti Ocean. ind.

16. **Nummularia scutata** Berk. et Cooke in Grevillea XII, pag. 6. 2303
— Tenuis, orbicularis, applanata, atra, erumpens; ostioli minutis punctiformibus, vix perspicuis; ascis cylindræis; sporidiis ellipticis, minutissimis, fuscis 4-5 \approx 2,5.

Hab. in ramis in insula Mauriti Ocean. ind.

Ad genus **Nummulariam** pertinerent, sec. Cooke Grev. XII, p. 8, *Hypoxylon sertatum* DC. et Mont. (Syll. I, n. 1372), *Hypoxylon Kalchbrenneri* Sacc. (1377), *Hypoxylon heterostomum* Mont. (1380), *Hypoxylon anthracodes* Fr. nec Ces. (1383), *Hypoxylon comedens* Ces. (forma *confluens*) (1389), *Hypoxylon carabayanse* Mont., *Hypo-*

xylon cycliscum Mont. (1408), *Hypoxyton scriblitum* Mont. (1405), *Hypoxyton macrocenangium* Ces. (1411), *Hypoxyton microstictum* Mont. (1415), *Hypoxyton melanaspis* Mont. (1416), *Hypoxyton pachyloma* Lév. (1417), *Hypoxyton Moselei* Berk. (1418), *Hypoxyton fossulatum* Mont. (1455). Hæ species omnes sub titulo *Nummularia* in Grev. XIII, p. 13 enumerantur.

Sect. 3. Hyalosporæ.

CERATOSTOMELLA Sacc. Syll. I, p. 408.

1. **Ceratostomella microcarpa** Karst. in Hedw. 1884, p. 86 et Rev. 2304
atque Synop. Ascom. Fenn. p. 73. — Peritheciis gregariis, erumpentibus, denique liberis, vulgo sphæroideis, atris, circ. 0,3 mm. lat., rostro cylindræo, æquali, levi, perithecium æquante vel eo duplo longiore; ascis crasse clavatis, 18-25 \approx 4; sporidiis conglobatis vel tristichis, elongatis vel cylindræis, curvulis, simplicibus, hyalinis, 4 \approx 0,5-1.

Hab. in ligno vetusto Populi tremulæ prope Mustiala Fennicæ. — A ceteris speciebus minutie partium omnium statim tuteque dignoscitur.

2. **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.

3. **Ceratostomella Mali** Ell. et Ev. Proc. Phil. 1890, p. 225. — Peritheciis sparsis, membranaceis, globosis, 400 μ . diam., cortice subelevato tectis; ostiolis breviter cylindræis, obtusis, 150 \approx 75, apice foramine majusculo, rotundo pertusis; ascis clavatis, apice subtruncatis, basi acute angustatis, circ. 40 \approx 5, 8-sporis, aparaphysatis; sporidiis distichis, oblongo-cylindræis, subincurvis, vix 2-guttatis, 6-8 \approx 1,5.

Hab. in pagina inferiore corticis soluti Piri Mali subemortuæ, Newfield, N. Jersey, Amer. bor. — Differt a *C. dispersa* ostiolo recto, calvo, tenuiore.

4. **Ceratostomella capilliformis** Bomm. Rouss. Sacc. sp. nov. — Peritheciis sparsis, globulosis, subsuperficialibus, glabris, 150-180 μ . diam., ostiolo capillari sæpe decumbente, 240-270 \approx 24-27; ascis clavatis, basi nodulosis, 30-36 \approx 6-9; paraphysibus tortuosis, ascum

æquantibus, intus granulosus; sporidiis ellipsoideis, subinde curvulis, distichis, hyalinis, vulgo guttulatis, $8 \approx 3$.

Hab. in ligno vetusto Carpini (ut videtur) Groenendael Belgii.

5. **Ceratostomella hydrophila** Mout. Ascom. Liège. II, p. 171. — Peritheciis subgregariis, immersis v. emergentibus, $\frac{1}{2}$ mm. globosis quandoque compressis, ostiolo unico perithecii diametrum non excedente; contextu coriaceo, fuligineo; ascis cylindraceutis, stipitatis, apice membrana incrassata, 8-sporis, 145-160 \approx 6-7, p. sp. 120-130 μ . long., aparaphysatis; sporidiis monostichis, breve cylindricis, utrinque rotundatis, rectis, hyalinis, 2-3-guttatis, nebulosis, 12-16 \approx 4,5-5,5. 2308

Hab. in ramulis decorticatis in alveum rivulorum delapsis, Beau-fays prope Liège Belgii. — A *C. dubia* et *C. rhenana* facile distinguenda.

6. **Ceratostomella hystricina** (Cooke) Sacc. *Ceratostoma hystricinum* 2309
Cooke Grev. VI, p. 109. — Gregaria, subimmersa, demum emergens; subsuperficialisque; peritheciis atro-fuscis, globosis, tomentosis, rostellatis; ostiolis cylindricis, subflexuosis; ascis cylindraceutis; sporidiis elliptico-lanceolatis, hyalinis, 16-18 \approx 6.

Hab. in cortice Fici, Aiken Carol. inf. Amer. bor. (RAVENEL).

7. **Ceratostomella capillaris** (Ellis) Sacc., *Ceratostoma capillare* Ellis 2310
Torr. Bot. Cl. 1882, p. 20. — Peritheciis capillaribus, nodulosis, pilis brevibus, sparsis, hyalinis infra vestitis, basi parce dilatatis; ascis ellipticis, 30-35 \approx 9, octosporis; sporidiis stipatis, fusoides, subhyalinis, indistincte nucleatis, rectis curvulisve, 11-14 \approx 3-3,5.

Hab. in amentis dejectis sterilibus Alni serrulatæ, New Jersey Amer. bor.

8. **Ceratostomella albocoronata** (Ellis) Sacc., *Ceratostoma albocoronatum* Ellis 2311
Amer. Nat. 1883, pag. 318. — Peritheciis conicis minutis, nucleum album denique in globuli formam eructantibus; ascis cylindraceutis, 35 \approx 7; sporidiis monostichis v. subdistichis, ellipticis, hyalinis, 1-2-nucleatis, 7,5-9,5 \approx 3-3,5. — Status conidiophorus: hyphis rectis, brunneis, simplicibus, dense sparsis; conidiis obovatis, brunneis, solitarie acrogenis, 2-3-septatis, 11,5 \approx 7,5.

Hab. in lignis putrescentibus, Newfield, N. J. Amer. bor.

9. **Ceratostomella Unedonis** H. Fab. Spher. Vaucl. II, p. 34, f. 1. — Peritheciis solitariis, late sparsis, ligno putrido infossis, globosis, atris, $\frac{1}{3}$ mm. latis; ostiolo elongato, in rostellum centrale, strictum, perithecii diametrum bis superans producto; ascis aparaphysatis, 2-3-guttatis, 12-16 \approx 4,5-5,5. 2312

physatis, breve et crasse stipitatis, cylindraceis, 8-sporis, 70-80 \approx 8; sporidiis monostichis, continuis, hyalinis, ovoideis, pluriguttulatis, 8-10 \approx 5.

Hab. ad basim Arbuti Unedonis in ligno putrescente, Vaucluse Galliæ.

GNOMONIELLA Sacc. Syll. I, p. 413.

1. **Gnomoniella vagans** Johans. Svamp. fran Island, p. 163, t. XXIX, 2313
fig. 6. — Peritheciis sparsis vel gregariis, parenchymate innatis, sphæroideis, siccis depressis basique collapsis, atris, 270-330 μ . d., rostro cylindraceo, rigido, circ. 200 μ . longo, epidermidem perforante; ascis cylindraceis seu subcylindraceis, 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.

Hab. in petiolis et pedunculis emortuis Dryadis octopetalæ, Eski fjördur Isiandiæ orientalis.

2. **Gnomoniella guttulata** Starb. Ascom. Oeland. p. 10, f. 2. — Peri- 2314
theciis globoso-depressis, inter epidermidem et lignum nidulantibus, sparsis v. gregariis, plerumque 2-3-pluribus lineatim seriatis, linea nigra non limitatis, stromate perfecte carentibus, primo tectis, epidermidem demum, rima longitudinali fissum, ostiolo conico, brevi perrumpentibus, atris, 350-450 μ . diam.; ascis clavato-lanceolatis, 8-sporis, sursum detruncatis, deorsum in stipitem brevem apiculatim attenuatis, ad apicem lumine guttulæ ad instar præditis, 34-42 \approx 5-6, aparaphysatis; sporis distichis, tereti-fusoideis, deorsum angustioribus, inæquilateralibus v. curvulis, infra medium spurie 1-septatis, primo autem guttulis tantum minoribus plurimisque ornatis, 6-10 \approx 1-2,5.

Hab. in caulibus aridis Agrimonie Eupatorii ad Marbylänga in Oelandia.

3. **Gnomoniella Hippocastani** Brun. Champ. env. Saint. p. 336. — Peri- 2315
ritheciis sparsis vel adproximatis, interdum confluentibus, tectis, subglobosis, epidermidem pustulatim elevantibus, contextu violaceo-cæruleo, ostiolo basi subincrassato, exsertis, elongatis, interdum 0,5 mm. prominentibus; ascis clavatis v. subclavatis, subtus in pedicellum attenuatis, 50-55 \approx 6,5-7, p. sp. 38-42 μ . long., 8-sporis; sporidiis oblique 2- v. 3- stichis, fusoideo-elongatis, continuis, re-ctis v. subrectis, guttatis v. granulosis, hyalinis, 14-15 \approx 2-2,5.

Hab. in petiolis dejectis *Æsculi Hippocastani*, Saintes, Pessines Galliæ. — *G. Brunaudianæ* affinis, sed peritheciis latioribus ostiolisque majoribus diversa.

4. **Gnomoniella Brunaudiana** Pass. in Brun. Champ. Saint. V, p. 1. 2316
— Peritheciis sparsis, tectis, subglobosis, nigris; ostiolo gracili, exserto, brunneo, perithecio subæquilongo; ascis subclavatis, deorsum in pedicellum attenuatis, $50 \approx 6$, p. sp. 37μ . long., 8-sporis; sporidiis distichis tristichis vel oblique confertis, fusoido-elongatis, continuis, rectis vel subrectis, intus granulosis, hyalinis, $12,5 \approx 1,7-8$.

Hab. in petiolis *Aceris campestris* et *Ailanthi* et samaris *Aceris Pseudoplatani*, Saintes Galliæ.

5. **Gnomoniella tenella** E. et S. Journ. Myc. 1888, p. 80 (ex errore 2317
68). — Peritheciis amphigenis, plerumque per totam folii laminam sparsis, depresso-globosis, $\frac{1}{4}-\frac{1}{3}$ mm. lat., cuticula subelevata tectis; ostiolo nigro, recto, fragili, circ. 1 mm. long.; ascis fusoidis, $50-70 \approx 6-7$; sporidiis fasciculatis, anguste cylindræis, guttatis, $16-22 \approx 1,5-2$, utrinque appendice gracili, piliformi, acuminata, $15-20 \mu$. long. auctis.

Hab. in foliis *Aceris rubri* dejectis ad Newfield, New Jersey Amer. bor.

6. **Gnomoniella rubicola** Passer. Diagn. F. nuovi III, n. 5. — Peritheciis sparsis, tectis, ostiolo acuto epidermidem sublevante et vix emerso, atris; ascis fusoidis, $30 \approx 5$, 8-sporis, aparaphysatis; sporidiis distichis, fusoidis, oblongis, integris, hyalinis, $6-7 \approx 2$; paraphysibus copiosis, tenuissimis, ascos æquantibus v. superantibus.

Hab. in ramo sicco *Rubi fruticosi*, Fornovo, prov. Parmæ Italiæ. — A *G. idæicola* (Karst.) ascis sporidiisque minoribus, hisque non chlorinis differre videtur.

7. **Gnomoniella Cercosporæ** Passer. Diagn. F. N. I, n. 4. — Peritheciis epiphyllis, sparsis, parenchymati immersis, ostiolo breviusculo, cylindrico, erumpente; ascis clavatis, inferne attenuatis, $35 \approx 5$, 8-sporis; sporidiis distichis, subfusoidis, guttulis minutis 3-4 fœtis, hyalinis, $7 \approx 2$.

Hab. in foliis *Rubi glandulosi*, maculis a *Cercospora Rubi* formatis insidentibus, Collecchio prope Parmam Ital. bor.

8. **Gnomoniella brevirostris** Karst. in Rev. myc. 1886, pag. 160. — 2320
Peritheciis subsparsis, epidermide subimmutata tectis, eique detractis, subtus adhærentibus, sphæroideis, nigris, basi filamentis fuscis, paucis præditis, rostro brevissimo, crassiusculo, epidermidem

perforante, ore depresso, atro, 0,2 mm. lat.; ascis brevissime pedicellatis, fusoido-bacillaribus, curvulis, 120-135 \times 11-12; sporidiis distichis, filiformibus seu bacillaribus, utroque apice attenuatis, curvulis, pluriguttulatis, hyalinis, 75 \times 4.

Hab. in foliis vaginisque emortuis Scirpi silvatici ad Mustiala Fenniæ.

9. **Gnomoniella iridicola** Karst. Symb. M. F. XXVII, p. 34. — Peritheciis sparsis, innatis, atris, rostro stricto, aciculari, erumpente, dimidium diametrum perithecii vix æquante, vix 0,1 mm. lat.; sporidiis octonis, fusoido-elongatis, rectis, 2-4-guttulatis, hyalinis, 10-12 \times 3-4.

Hab. in foliis putridis Iridis Pseudacori in parœcia Tamela, Kojo, Fenniæ.

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

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

Hab. in foliis *Pyrolæ secundæ*, Montauvert Gallia. — Socia adest *Septoria Pyrolæ* Sacc.: peritheciis epidermide velatis, punctiformibus, macula nulla v. obsoleta insidentibus; sporulis fusoido-bacillaribus, 20-23 \times 3-4, curvulis, hyalinis.

2. **Læstadia Gentianæ** Briard et Hariot Rev. Myc. 1890 Oct. — Peritheciis disciformibus, numerosis, depressis, subepidermicis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam.; ascis cylindræo-clavatis, sessilibus, 8-sporis, 40-65 \times 10-14; sporidiis monostichis, obliquis vel inordinatis, ovoideo-oblongis, obtusissimis, hyalinis, 12-18 \times 6-8.

Hab. in caule emortuo *Gentianæ luteæ*, Clermont-Ferrand Puy-de-Dôme Gallia (HÉRIBAUD).

3. **Læstadia palustris** Fr. in Duby Bot. Gall. II, 710 (*Sphæria*), Desm. Exs. n. 365. — Hypophylla, sparsa; peritheciis innatis, epidermide tectis, punctiformibus, nigris, nitidis, convexis, centro prominulo; ascis cylindræis; sporidiis suballantoideis; hyalinis, 10 \times 2.

Hab. in foliis *Calthæ palustris* in Gallia.

4. **Læstadia Potentillæ** Rostrup Islands Svampe p. 11. — Peritheciis lenticularibus, umbilicatis, nitidis; ascis cylindræo-clavatis, cur-

vulis, 30-35 \times 8-12; sporidiis distichis, fusoideo-oblongatis, hyalinis, 9-12 \times 3-4.

Hab. in foliis *Potentillæ maculatæ*, Seydisfjörd in Islandia.

5. **Læstadia guarapiensis** Speg. Fung. Guar. Pug. I, n. 184. — *Pe-* 2326
ritheciis laxe gregariis, epidermide tenui, albescente tectis eique sæpe adnatis, lenticulari-globosis, 150-200 μ . diam., atris, glabris, membranaceis, coriacellis contextu subindistincto; ascis clavatis sursum obtusissime rotundatis crasseque tunicatis, deorsum breviter attenuato-stipitatis, 75-85 \times 15-18, octosporis, aparaphysatis; sporidiis distichis, ellipticis, medio tumidulis, utrinque subtruncato-rotundatis, rarius acutatis, 18-20 \times 8, non vel vix inæquilateralibus, granuloso-faretis, hyalinis.

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

6. **Læstadia depressa** (Peck) Berl. et Vogl. Add. Syll. p. 61, *Sphæ-* 2327
rella depressa Peck in 33 Rep. Stat. Mus. p. 34. — *Peritheciis* numerosis, minutis, depressis vel subinde siccitate concavis, atris; ascis oblongo-clavatis; sporidiis simplicibus, oblongo-ellipsoideis v. subfusiformibus, 12-15 μ . longis.

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

7. **Læstadia caryophyllea** (Cooke et Harkn.) Berl. et Vogl. Add. Syll. 2328
p. 62, *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 \times 7,5.

Hab. in caulibus *Dianthi* in California (HARKNESS).

8. **Læstadia Verbesinæ** Pat. Bull. Soc. Myc. 1888, pag. 111. — *Pe-* 2329
ritheciis subglobosis, parvis, nigris, minute gregariis; ascis cylindraceis, apice obtusis, substipitatis, 65-90 \times 10-14, aparaphysatis; sporidiis late ovoideis, hyalinis, granulosis, magne guttulatis, 13-14 \times 6-10.

Hab. in foliis languidis et decoloratis *Verbesinæ alatæ* in Caracas Venezuelæ.

9. **Læstadia Absinthii** Passer. Diagn. F. N., I, n. 3. — *Peritheciis* 2330
sparsis, pusillis, tectis, ostiolo punctiformi vix perspicuo; ascis lanceolatis, 8-sporis, 50-60 \times 7,5, brevissime paraphysatis; sporidiis distichis v. oblique monostichis, fusoideis, rectis, inæquilateralibus v. vix curvis, continuis, intus granulosis v. nucleolatis, hyalinis, 16 \times 3-3,5.

Hab. in caulibus siccis Artemisiæ Absinthii, Vigheffio pr. Parmam Ital. bor.

10. **Læstadia Ptarmicæ** Karst. et Starb. in Hedw. 1887, p. 125. — 2331
Peritheciis sparsis, primitus epidermide tectis, rotundatis, atris, demum poro pertusis, vix 0,1 mm. diam.; ascis elongatis, sessilibus, rectis vel curvulis, 39-48 \approx 10-12; sporidiis distichis vel subtristichis, ovoideo-elongatis, rectis v. curvulis, guttulatis, hyalinis, 15-22 \approx 5-6.

Hab. in foliis aridis Achilleæ Ptarmicæ in agro Mustialensi Fennicæ (K. STARBAECK).

11. **Læstadia circumtegens** Rostr. Fungi Groenl. p. 547. — Peritheciis 2332
dense gregariis, cauliculis, lenticularibus, poro pertusis; ascis cylindraceo-clavatis, curvulis, 40-42 \approx 10; sporidiis octonis, fusoido-oblongis, guttulatis, 12-14 \approx 3-5.

Hab. in caulibus Drabæ hirtæ et Erigeronis uniflori in Groenlandia.

12. **Læstadia Archangelicæ** Rost. Fung. Groenl. p. 547. — Maculis 2333
ellipsoideis, magnis, 1-2 cm. diam., cinereis; peritheciis copiosis, dense gregariis, depresso-sphæroideis, siccis pezizoideo-collapsis, atris, glabris; ascis ovato-cylindraceis, 8-sporis, 32-38 \approx 6-8; sporidiis distichis, fusoido-elongatis, 2-3-guttulatis, 14-18 \approx 2-3, hyalinis.

Hab. ad caules aridos Archangelicæ officinalis, S. Kangerdluarsuk Groenlandiæ.

13. **Læstadia arctica** Rostr. Fungi Groenl. p. 547. — Peritheciis mi- 2334
nutis, sparsis, depresso-sphæroideis; ascis oblique oblongo-ovoideis, 45-65 \approx 14-16; sporidiis fusoido-oblongatis, hyalinis, ut plurimum biguttatis, 20-25 \approx 5-6.

Hab. in foliis Halianthi peploidis, Godhavn Groenlandiæ.

14. **Læstadia Polygonorum** (Auersw.) Sacc. *Sphær. Polygonorum* 2335
Auersw. in Unio. itin Crypt. 1866, Jour. of Bot. 1883, p. 71. — Peritheciis minutissimis, hypophlæoideis, globosis, nigris, epidermidem mox ostiolo exiguo papillæformi perforantibus; ascis more generis paraphysibus non obvallatis, ovoideis, 8-sporis; sporidiis 2-3-serialiter stipatis, dactyloideis, hyalinis (ut videtur) integris, rectis vel subcurvulis, 10-12 \approx 3.

Hab. in caulibus Polygoni equisetiformis in Sardinia.

— An sporidia tandem 1-septata?

15. **Læstadia asarifolia** (Cooke) Sacc. *Spærella asarifolia* Cooke 2336
Journ. of Botan. 1883, pag. 138. — Epiphylla; maculis orbicula-

ribus confluentibusque, fuliginis; peritheciis exiguis, globosis, atris, poro pertusis, confertis, circinato-dispositis; ascis subcylindricis, 30 μ . longis; sporidiis ellipticis, continuis, hyalinis, 7 \approx 2,5.

Hab. in foliis *Asari arifolii*, Seaboard of Carolina America boreali (RAVENEL).

16. **Læstadia Paronychiæ** (Cooke) Sacc. *Sphærella Paronychiæ* Cooke 2337
Journ. of Bot. 1883, pag. 138. — Amphigena, sparsa, punctiformis; peritheciis minimis, atris, globosis, semiimmersis; ascis cylindraceis 40 (?) \approx 8; sporidiis arcte ellipticis, continuis, hyalinis, 8 \approx 2,5.

Hab. in foliis emortuis v. languidis *Paronychiæ serpyllifoliæ*, Luchon Galliæ. — In Cooke l. c. asci tantum 14 μ . (0,14) longi describuntur, certe ex errore.

17. **Læstadia Cucurbitacearum** (Schw.) Sacc. *Sphærella Cucurbitacearum* Schw. in Fr. Syst. myc. II, 502. — Gregaria; peritheciis emerso-innatis, hemisphæricis, levibus, minutissimis, nitidis, membranaceis, epidermide tectis; ascis clavatis, abbreviatis; sporidiis ellipticis, continuis, hyalinis, 7,5 \approx 3.

Hab. in *Cucurbitis* in Amer. bor. — An sporidia tandem 1-septata?

18. **Læstadia Apocyni** Ell. et Ev. Proc. Phil. 1890, p. 230. — Peritheciis gregariis, depresso-globosis, 150-200 μ diam., supra pertusis, cuticula pellucida tectis; ascis clavato-cylindraceis, 40-45 \approx 10-12; sporidiis conferte distichis, oblongis, 2-nucleatis, obtusis, plerumque subincurvis, 10-15 \approx 5-6.

Hab. in caulibus emortuis *Apocyni*, London Canada Amer. bor.

19. **Læstadia cinerescens** (Schw.) Sacc. *Sphærella* (foliicolæ) *cinerescens* Schw. Syn. Amer. bor. n. 1795. — Maculis maximis, irregulariter et indeterminatim in utraque pagina effusis, colorem cinerescentem in aversa, nigrum in superiori servantibus; peritheciis innumeris, minutissimis, aggregatis, atris, innatis, subacuminatis, astomis aut demum pertusis, sparsis aut inter se effiguratim junctis; ascis clavatis; sporidiis arcte ellipticis, continuis hyalinis, 8 \approx 2-5.

Hab. in foliis putrescentibus *Asclepiadis syriacæ*, Bethlehem Americæ borealis.

20. **Læstadia albo-crustata** (Schw.) Sacc., *Sph.* (foliicolæ) *albo-crustata* Schw. Syn. Amer. bor. n. 1791. — Crustæ pulveraceæ albæ cinerescenti indeterminatim vagæ effusæ insidens; peritheciis sparsis, nigris, passim inter se in crustam quasi effiguratim aggregatis, nec tamen connexis, intus evacuatis, primum convexis, subrugosis,

demum collapsis; ascis clavatis, numerosis, 16 μ . longis; sporidiis linearibus, obtusis, 4 \approx 1,5, minutissimis, hyalinis.

Hab. in aversa pagina folii Platani, Bethlehem Amer. bor. — Sporidia forte non matura.

21. **Læstadia faginea** (C. et Plow.) Sacc. *Sphærella faginea* Cooke 2342
et Plow. in Plow. Sph. Brit. III, n. 100, Journ. Bot. 1883, p. 68. — Hypophylla sparsa, punctiformis; peritheciis minutis, innatis, tectis, globosis, atris; ostiolis erumpentibus; ascis clavatis; sporidiis biseriatis arcte ellipticis, utrinque obtusis, continuis, hyalinis, 10-11 \approx 2,5.

Hab. in foliis fagineis, King's Lynn Britanniae.

22. **Læstadia Magnoliæ** (Schw.) Sacc. *Sph.* (foliicolæ) *Magnoliæ* Schw. 2343
Syn. Amer. bor. n. 1808. *Sphærella Magnoliæ* Ellis. — Orbiculatim et effiguratim aggregata, demum confluens et totum folium occupans; peritheciis tectis, punctiformibus, applanatis, astomis, cum epidermide assurgentibus, demum collapsis, nigris, sed disco albescente; ascis sublanceolatis; sporidiis biseriatis, clavato-oblongis, hyalinis, 7 \approx 2,5.

Hab. in pagina aversa Magnoliæ glaucæ foliorum prope Kaign's Point, Philadelphia et New Jersey Amer. bor. — Paginam superiorem folii bullatam reddit.

23. **Læstadia Leucothoes** (Cooke) Sacc. *Sphærella Leucothoes* Cooke 2344
in Rav. Amer. Fungi n. 787. — Epiphylla; maculis albidis, suborbicularibus confluentibusve, rubro-marginatis; peritheciis minimis, immersis, ostiolis emergentibus, punctiformibus, atris; ascis clavato-cylindricis; sporidiis ellipticis continuis, hyalinis, 13-15 \approx 4,5.

Hab. in foliis Leucothoes, Pinopolis, S. Carolina Americæ borealis (RAVENEL).

24. **Læstadia tuscula** Pass. Erb. cr. it. Ser. II, n. 1277. — Peritheciis 2345
in maculis subcircularibus vel irregularibus, arescendo dealbatis, dense gregariis, præsertim hypophyllis; ascis e basi subventricosa sensim attenuatis rectis vel inferne curvulis, sessilibus aut abrupte brevissime stipitatis, 8-sporis, 35-45 \approx 10-12; sporidiis subdistichis elongatis, utrinque rotundatis, rectis 4-nucleatis, hyalinis, 17-18 \approx 5; paraphysibus nullis. — Ob macularum folii similitudinem, *Phyllosticta tineæ* Sacc. spermogonium hujusce speciei videtur.

Hab. in foliis anni præteriti Viburni Tini, Frascati, Villa Torlonia pr. Romam (PASSERINI).

25. **Læstadia Melaleucæ** (Berk.) Sacc. *Sphærella Melaleucæ* Berk. 2346
in Herb. et in Journ. of Bot. 1883, pag. 70. — Epiphylla; maculis orbicularibus, minutis, fuscis, convexis; peritheciis subinnatis atris

in maculas congestis; ascis clavatis; sporidiis biseriatis, arcte ellipticis, continuis, hyalinis, 8-10 \approx 2,5.

Hab. in foliis *Melaleucæ*, New South Wales Australiæ. — Videtur prorsus diversa a *Sphæria Melaleucæ* Lév.

26. **Læstadia fuispora** Sacc. et Berl. *Miscell. Myc.* p. 26, n. 115, 2347 tab. VIII, f. 3. — Maculis epiphyllis vagis, subochraceis; peritheciis subsparsis, globoso-lenticularibus, breve papillatis, tectis, dein erumpentibus, 100-110 μ . diam., membranaceis; ascis cylindræis, aparaphysatis, breviter stipitatis, 80-90 \approx 8, octosporis; sporidiis 1-stichis, fusoides, 20-22 \approx 4-5, subinde inæquilateralibus, hyalinis, eguttatis.

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

27. **Læstadia auripunctum** Harkn. *New Calif. Fungi* p. 23. — Hypophylla; peritheciis sparsis, 5-20 in maculis flaveolis, orbicularibus, 2-5 mm. diam., linea obscure brunnea marginatis; nucleo aurantiaco; ascis 8-sporis, fusiformibus, 54 \approx 10, longe stipitatis; sporidiis hyalinis, ovatis vel clavatis, 10 \approx 6. 2348

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

28. **Læstadia parmensis** Passer. *Diagn. F. N.* I, n. 2, *Læstadia Mali* 2349 *Erbar. crittog. ital. ser. II*, n. 1366 saltem ex parte. — Peritheciis amphigenis, gregariis vel subsparsis, pusillis, epidermide tectis, dein ostiolo acutiusculo emersis, atris; ascis cylindrico-clavatis, obtusis, rectis vel leniter arcuatis, sessilibus, 8-sporis, 35-40 \approx 7-8 aparaphysatis; sporidiis distichis, fusoides, rectis v. vix curvis, continuis, guttulis 4 minutis fœtis, hyalinis, 10-12 \approx 2-2,5.

Hab. in foliis dejectis *Piri communis*, Parma Ital. bor.

29. **Læstadia spinicola** (Ell. et E.) Sacc., *Sphærella spinicola* Ell. 2350 et *Ev. Proc. Phil.* 1890, p. 231. — Peritheciis sparsis v. 3-4 conjunctis, minutis, 110-120 μ . diam., collabascentibus, per epidermidem translucidam conspicuis, basi mycelio parco cinctis; ostiolo papillato; ascis oblongis, sessilibus, 45 \approx 12, p. spor.; sporidiis biseriatis, oblongo-ellipsoideis, continuis, granulosis, utrinque rotundatis, 12-15 \approx 5-6.

Hab. in spinis *Rosæ rubiginosæ*, West Chester Pa. Americæ borealis.

30. **Læstadia celata** Harkn. *New Calif. Fungi* p. 23. — Peritheciis 2351

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.

31. **Læstadia microscopica** (Niessl) Berl. et Vogl. Add. Syll. p. 61. 2352

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 obtusis, guttulis 4 præditis, hyalinis, $12-14 \approx 2-3$.

Hab. in foliis emortuis *Rubi fruticosi* in Stiria.

32. **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; ascis $27-30 \approx 6-8$; sporidia disticha, $6-7 \approx 3-4$, 3-guttata, hyalina, initio utrinque apiculo $1-2 \mu$. longo aucta. — In sarmentis corticatis *Rubi fruticosi* in Euganeis et Fiumicello Italiæ borealis. — Iterum reperta et novo studio e genere prisco remota.

33. **Læstadia Camilleæ** (Cooke) Berl. et Vogl. Add. Syll. p. 62, *Sphæ-* 2353

rella Camilleæ Cooke in Grevillea XIII, pag. 4. — Epiphylla, sparsa; peritheciis semiimmersis, membranaceis, 250μ . diam., atro-fuscis; ascis clavatis, octosporis; sporidiis biserialibus, ellipticis, continuis, $12 \approx 5$, pallidis, hyalinis.

Hab. in foliis *Camilleæ* Theæ, Johore pr. Perak Malesiæ.

34. **Læstadia Rhodoræ** (Cooke) Berl. et Vogl. Add. Syll. p. 62, *Sphæ-* 2354

ria Rhodoræ Cooke in Grev. XIII, p. 99. — Epiphylla; peritheciis gregariis, in maculis latis, irregularibus, ferrugineis insidentibus, parenchymate immersis, subglobosis, atris, ostioli punctiformibus epidermidem perforantibus; ascis clavatis, aparaphysatis, $80-120 \approx 16$; sporidiis ellipticis, hyalinis, continuis, $15 \approx 7$.

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

35. **Læstadia vitigena** Passer. Diagn. F. N., I, n. 1. — Peritheciis 2355

sparsis, minimis, punctiformibus, atris, epidermidi innatis, contextu cellulis amplis, subhexagonis, fuliginis formato; ascis parvulis, ovato-clavatis v. ovoideis vel saccatis, rectis v. curvis, 4(?)–8-spo-

ris, 25-37 \approx 10-12, aparaphysatis; sporidiis subdistichis v. conglobatis, ovoideo-oblongis, continuis, hyalinis, 12 \approx 4-5.

Hab. in sarmentis siccis *Vitis*, sociis *Diplodia*, *Phoma*, *Coniothyra* etc.. Vigheffio pr. Parmam Italiæ.

36. **Læstadia ramulicola** Passer. Diagn. F. N. III, n. 3. — Peritheciis sparsis vel gregariis, tectis, minute pustuliformibus, atris; ascis cylindrico-clavatis, 8-sporis, 50 \approx 8, aparaphysatis; sporidiis distichis fusoides, curvulis, continuis, utrinque acutis, hyalinis, 17,5-20 \approx 2,5-3. 2356

Hab. in ramulis siccis *Genistæ tinctoriæ*, Vigheffio prope Parmam Italiæ.

37. **Læstadia buxifolia** (Cooke) Sacc. *Sphærella buxifolia* Cooke 2357
 Jour. of Bot. 1883, pag. 69. — Hypophylla; peritheciis exiguis 2-4 in cæspitulos minimos congestis, subprominulis, atro-fuscis, poro pertusis; ascis clavatis; sporidiis sublanceolatis, utrinque obtusis, continuis, 1-4-nucleatis, hyalinis, 18 \approx 4.

Hab. in foliis *Buxi sempervirentis* vel *himalayensis*, Saharunpore in Horto botanico. — Ab *Hyponectria Buxi*, teste Cooke, distinguenda.

38. **Læstadia Buxi** (Fuck.) Sacc. *Sphærella Buxi* Fuck. Symb. Myc. 2358
 100, *Sph. Buxi* Desm. Ann. sc. nat. XIX, 354? — Hypophylla; peritheciis dense sparsis, minutis, subglobosis, rufo-olivaceis, pallidis, in parenchymate folii nidulantibus, epidermide nigrefacta tectis, poro pertusis; ascis breve stipitatis, clavatis, medio subinflatis, 50-60 \approx 10; sporidiis oblongis, obtusis, 1-2-nucleatis, subhyalinis, 14-17 \approx 4,5-5.

Hab. in foliis emortuis *Buxi sempervirentis* in Gallia et Germania.

39. **Læstadia Berberidis** Delacr. Bull. Soc. Myc. 1890, p. 142. — Peritheciis gregariis, epidermide tectis, 150-175 μ . lat., fuscis; ostiolo papillulato, 18-20 μ . lat.; ascis clavatis, 50-60 \approx 13, aparaphysatis; sporidiis distichis, ellipsoideis vel parte inferiore obtuse attenuatis, levissime granulatis, 13 \approx 5. 2359

Hab. in ramis vivis *Berberidis vulgaris*, Joinville-le-Pont prope Paris Galliæ.

40. **Læstadia orientalis** Ell. et Ev. Proc. Phil. 1890, p. 230. — Peritheciis amphigenis, depresso-hemisphæricis, 180-200 μ . diam., sparsis, erumpentibus; ascis clavato-cylindræis, 70-75 \approx 12, p. sp. 45-50 μ . long., aparaphysatis; sporidiis conferte biseriatis, inæquilateraliter ellipsoideis, hyalinis, granulosis, guttulatis, 12-14 \approx 5-6. 2360

Hab. in foliis emortuis *Castaneæ japonicæ*, La Fayette Louisianæ Amer. bor.

41. **Læstadia Pseudoplatani** Pass. in Rev. Myc. 1886, pag. 205. — 2361

Peritheciis epiphyllis, minutis, nigris, discoideo-depressis, subgregariis; ascis oblongis vel claviformibus, 25-37 \times 10, octosporis; sporidiis di- tristichis, navicularibus, continuis, enucleatis, 7,5 \times 2,5.

Hab. in foliis exsiccatis *Aceris Pseudoplatani*, Saintes Galliæ.

42. **Læstadia Æsculi** Peck 39 Rep. p. 51, t. II, f. 15-18. — Perithe- 2362

ciis 175 μ . lat., lenticularibus, epidermide tectis, erumpentibus, nigris, poro minuto pertusis; ascis subclavatis; sporidiis confertis, subellipsoideis, hyalinis, 7,5-10 \times 5-6,5.

Hab. in petiolis dejectis *Æsculi Hippocastani*, Albany Amer. bor. (CLINTON).

43. **Læstadia Periclymeni** Pass. in Brun. N. Fragm. p. 25. — Macu- 2363

lis lividis vel griseis, disciformibus v. irregularibus, margine brunneis; peritheciis amphigenis, parum numerosis, adproximatis, nigris, punctiformibus, acute ostiolatis; ascis numerosis, cylindratis vel obclavatis, substipitatis, 25-40 \times 5-7, 8-sporis, aparaphysatis; sporidiis fusoides vel subfusoides, subinæquilateralibus vel subincurvis, dein granulosis, tandem 4-guttulatis, hyalinis, 7-10 \times 3.

Hab. ad folia viventia *Loniceræ Periclymeni*, Saintes Galliæ.

44. **Læstadia Fraxini** Fautr. Rev. Myc. 1891, pag. 7. — Peritheciis 2364

numerosis, hypophyllis, in maculas collectis, ostiolo elongato, nigro erumpentibus; ascis aparaphysatis, 45-55 \times 10; sporidiis hyalinis, continuis, fusoides, incurvis, 25-27 \times 2-3.

Hab. in foliis *Fraxini* in silva Charny Côte-d'Or Galliæ. —

Ad *L. fraxinicolam* proxime accedens. — « An *Gnomonia*? »

45. **Læstadia Litseæ** (B. et Br.) Sacc. *Sphærella Litseæ* B. et Br. 2365

Brisb. III, p. 223, t. 29, f. 40-42. — Peritheciis sparsis, nigris, subprominulis, maculis pallide brunneis, 1-3 mm. lat., nigro-marginatis 4-15 insidentibus; ascis clavatis; sporidiis octonis, ellipsoideis v. fusoides, hyalinis, continuis, 32,5 μ . long., interdum distichis.

Hab. in foliis *Litseæ*, Brisbane Australiæ (F. M. BAILEY).

46. **Læstadia? Juniperi** (Duby) Sacc. *Sphæria* Duby in Klotz. Herb. 2366

Myc. n. 1833, Grev. XIX, p. 7. — Sparsa aut gregaria, rarius conferta epidermide fissa, primo tecta, dein, ea omnino expulsa, nuda; peritheciis atrobrunneis, globosis opacis, superficialibus, ostiolo minutissimo; ascis grossis clavatis, sessilibus; sporidiis 8 ovatis, pel-

lucidis, simplicibus, aut rarius 1-septatis, 4-5-guttulatis; paraphysibus nullis.

Hab. in monte Salevâ prope Genevam Helvetiæ, ad Juniperum emortuum, cujus foliorum fere omnium paginam superiorem raro inferiorem infarciebat.

47. **Læstadia juniperina** (Ellis) Sacc. *Sphærella juniperina* Ellis in 2367
Amer. Nat. XVII, 1883, p. 917. — Peritheciis primo tectis, dein nudis, sparsis, plerumque confluentibus; ascis fasciculatis, 35-40 \times 7-8; sporidiis inordinato-biserialibus, clavato-oblongis, granulosis, hyalinis (septatis?), 9-11 \approx 3,5.

Hab. in foliis putrescentibus Juniperi communis, Jowa Amer. bor.

48. **Læstadia Dammaræ** (B. et Br.) Sacc. *Sphærella* B. et Br. Brisb. 2368
III, p. 223, t. 29, f. 43-45. — Maculis pallidissime brunneis vel flavidis, margine succineo dein atro-brunneo, elevato cinctis; peritheciis nigris, innatis, dein ostiolo brevi, nigro, obtuso epidermidem perforantibus; ascis clavatis, 8-sporis; sporidiis fusoideis, 17,5 μ . long., (habitu continuis sed forte immaturis).

Hab. in foliis Dammaræ robustæ, Brisbane Australiæ (F. M. BAILEY).

49. **Læstadia guaranitica** Speg. Fung. Guar. Pug. I, n. 183. — Macu- 2369
lis amphigenis, suborbicularibus, 2-8 mm. diam., determinatis, tenuibus, griseo-arescentibus, subpellucidis; peritheciis epiphyllis in maculis laxè 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 vel vix inæquilateralibus, nubilo-so-farctis, hyalinis.

Hab. ad folia viva Monesiæ speciei cujusdam in dumetis collinis, Cero Hu prope Paraguari Brasiliæ.

50. **Læstadia Serrulatæ** (E. et E.) Sacc. *Sphærella Serrulatæ* Ell. 2370
et Ev. Journ. Mycol. 1887, p. 45. — Peritheciis minutis epidermide punctato-atrata tectis, prominulis, ostiolo acute papillato, sæpius in greges 6-12 vel seriatim digestis; ascis oblongo-lanceolatis, 35 \approx 7-8; sporidiis distichis, oblongo-fusoideis, 2-nucleatis, hyalinis 6-8 \approx 2,5, utrinque obtusulis.

Hab. in caule emortuo Sabal serrulatæ, Florida Amer.

bor. (CALKINS). — A *Sph. sabaligera* differt peritheciis minoribus, gregatis, sporidiis continuis.

51. **Læstadia Orontii** (Ellis et Ev.) Berl. et Vogl. Add. Syll. p. 60, 2371
Physalospora 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.

52. **Læstadia Engleri** Speg. F. Guar. II, n. 71. — Maculis arescentibus, sordide albis, subpellucidis (in sicco), 5-10 cm. diam. irregulariter expansis, determinatis; peritheciis in maculis sparsis v. hinc inde laxe gregariis, parenchymate immersis, ad epiphyllum tantum perspicuis ac suberumpenti-prominulis, lenticularibus, minutis, 80-120 μ . diam., atris, glabris, astomis? atque irregulariter dehiscentibus, superne coriacellis, contextu eximie parenchymatico-olivaceo inferne tenuissimis (an dimidiatis?), fumosis, contextu indistincto; ascis subcylindraceis antice obtuse rotundatis crasseque tunicatis, postice rotundato-cuneatis, breviter crasseque pedicellatis, 40 \approx 15, 8-sporis, aparaphysatis; sporidiis distichis, elliptico-subcymbiformibus, utrinque acutiuscule rotundatis, 15-17 \approx 5-6, sæpe minute 1-guttulatis, hyalinis.

Hab. ad folia viva Spathicarpæ lanceolatae in umbrosis montanis Sierra de Peribebuy Brasilæ.

53. **Læstadia Polygonati** (Schw.) Sacc. *Sphærella* (foliicolæ) *Polygonati* Schw. Syn. Amer. bor. n. 1793. — Sparsa; peritheciis innatis, utrinque prominentibus hemisphæricis, astomis, atris, albofartis, sed omnino expertibus fibrillarum *S. radiantis*; ascis subcylindricis; sporidiis arcte ellipticis, continuis, hyalinis, 8 \approx 2,5.

Hab. in foliis Polygonati, Bethlehem Americæ bor. — Affinis *Sphær. subradianti*.

54. **Læstadia pinciana** Pass. Diagn. III, n. 4. — Peritheciis minutissimis, globosis, fuscis, in series longitudinales continuas arcte digestis, contextu membranaceo, minute celluloso, ostiolo perforato; ascis obpiriformibus, basi acutis, 25 \approx 10-12, aparaphysatis; sporidiis subdistichis v. conglobatis, oblongo-fusoideis, quadriguttulatis, hyalinis.

Hab. in foliis floralibus et caulibus siccis Iunci acuti, Roma Italiæ.

55. **Læstadia Iridis** (Cooke) Berl. et Vogl. Addit. Syll. p. 61, *Sphæ-* 2375
rella 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.
56. **Læstadia graminicola** Rost. Fungi Groenl. p. 548. — Peritheciis 2376
minutissimis, copiosissimis, gregariis, in lineas parallelas dispositis; ascis fasciculatis, oblongo-clavatis, vulgo crasse tunicatis, 35-45 \approx 12-14; sporidiis fusoido-oblongis, simplicibus, 12-14 \approx 4.
Hab. in culmis vaginisque Colpodii latifolii et Agrostidis rubræ in Groenlandia.
57. **Læstadia polystigma** (Ell. et Ev.) Berl. et Vogl. Add. Syll. p. 61, 2377
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).
58. **Læstadia destructiva** (Berk. et Br.) Berl. et Vogl. Add. Syll. p. 62, 2378
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 inordinate distichis, subellipticis, basi subattenuatis 12 μ . longis hyalinis.
Hab. in foliis... Brisbane.
59. **Læstadia stigmatodes** (B. et C.) Sacc. *Sphærella stigmatodes* (B. 2379
et C.) Cooke Jour. Bot. 1883, pag. 68. — Hypophylla; peritheciis sparsis, punctiformibus, *Sph. punctiformem* simulantibus; ascis clavato-cylindricis; sporidiis arcte ellipticis, obtusis, continuis, hyalinis, 8-10 \approx 2-2,5.
Hab. in foliis, Maine Amer bor.
60. **Læstadia Hepaticarum** Cooke Grev. XIX, p. 3. — Peritheciis mi- 2380
nutis, demum semiemersis, atris, subglobosis, poro pertusis; ascis piriformibus, octosporis; sporidiis ellipticis, hyalino-fuscis, continuis, 5-3.
Hab. in Hepaticis in Nova Zelandia (COLENZO).
61. **Læstadia Polypodii** Sacc. et Magn. Miscell. Myc. II, pag. 27, 2381
n. 116, tab. VIII, fig. 6. — Maculis vagis, ferruginosis, amphige-

nis; peritheciis hinc inde densissime gregariis, amphigenis, innato-prominulis, globosis, vix pertusis, 90-100 μ . diam. atris; ascis tereti-clavatis aparthysatis, 60 \simeq 15, breve stipitatis, octosporis; sporidiis distichis, ovato-oblongis, continuis, 11-12 \simeq 5-6, granulosis, hyalinis.

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

62. **Læstadia filicina** Winter in Hedwigia 1886, pag. 100. — Peritheciis epiphyllis, dense sparsis, immersis, epidermide hemisphærice elevata tectis, globosis, ostiolo minutissimo, vix perspicuo, atris, crasse membranaceis, subnitidis, 100-120 μ . diam.; ascis subcylindrico-clavatis, i. e. e basi stipitifirmi sursum parum, sed usque ad verticem, incrassatis, 8-sporis, vertice obtuso, 52-58 \simeq 12; sporidiis subdistichis, oblongis, medio inflatis, utrinque attenuatis, rotundatis et appendicula brevi, plerumque conica, hyalina præditis, sæpe parum curvatis, chlorino-hyalinis, unicellularibus, 14-16 \simeq 5; paraphysibus non visis.

Hab. in foliis vivis Filicum in insula S. Thomé Afr. occ.

63. **Læstadia Prasiolæ** Wint. Exot. Pilze IV, p. 11. — Peritheciis cum spermogoniis mixtis et cum eis conformibus, sparsis, in verrucis magnis, globosis thalli immersis, globosis, vertice convexo, poro simplici pertusis, utrinque hemisphærice prominulis, 200-220 μ . lat., membranaceo-coriaceis, atris; ascis clavatis vel oblongo-clavatis, deorsum in stipitem brevem attenuatis, 8-sporis, 53-57 \simeq 9; sporidiis subdistichis, oblongis, oblongo-subclavatis v. subfusoides, utrinque parum attenuatis sed vix acutiusculis, plerumque rotundatis, sæpe inæquilateralibus, continuis, hyalinis, 12-15 \simeq 3,5-4,5.

Hab. in thallo vivo Prasiolæ, Fuegia Amer. austr. (HARIOT).

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 \simeq 5-6; sporidiis hyalinis, fusiformi-oblongatis, rectis vel levissime flexuosis, denique biguttulatis, 12-14 \simeq 2-3.

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

2. **Phomatospora scirpina** Thuem. Pilz. d. Gazell p. 4. — Peritheciis

solitariis, inordinatis, primo epidermide tectis, dein semiimmersis, sine macula, collo brevi, ostiolo griseo superficiali nitido; ascis longe cylindricis, vertice subacutatis, rectis, 60-65 \times 4-8, octosporis; sporidiis ovato-ellipsoideis, continuis, monostichis, 6-7 \times 4-4,5, hyalinis.

Hab. in culmis aridis Scirpi arundinacei in insula St. Pauli Oceani Pacifici.

3. **Phomatospora cupularis** (Wint.) Sacc. *Physalospora* Wint. Journ. 2386
de Bot. 1887, p. 271. — Peritheciis sparsis, primo immersis, demum vertice emergentibus, depresso globosis, ostiolo papilliformi v. breve conico, pertuso, prominulo, atris, subglabris demum collapsis, basin cupuliformem tantum relinquentibus 300-310 μ . lat.; ascis anguste cylindræis deorsum in stipitem longum attenuatis, apice rotundatis, 8-sporis, 70-88 \times 8, p. spor.; sporidiis monostichis vel e. p. subdistichis, oblongis, utrinque rotundatis, continuis, sæpe 2-guttulatis, hyalinis, 12-14 \times 4-5.

Hab. in caulibus Euphorbiæ palustris, Méry-sur-Seine (Aube) Galliæ (HARIOT).

4. **Phomatospora Saccardoi** Rehm Beitr. Ascom. Hedw. 1882, p. 123. 2387
— Peritheciis conicis seriatim sub epidermide nidulantibus, dein apice conico-elongato protuberantibus, atris, minutissimis; ascis cylindræis, tenerrimis, 8-sporis, 60 \times 5; sporidiis obtuse cylindræis, 1-cellularibus, 2 nucleis præditis, hyalinis, 1-stichis, 7 \times 3; paraphysibus nullis.

Hab. ad caulem putrescentem Cirsii spinosissimi prope Alpeiner-Gletscher in valle Stubai alpium Tirolensium, alt. c. 2300 metr. (DR. REHM).

5. **Phomatospora Datiscæ** Harkn. New Calif. Fungi pag. 23. — Peri- 2388
theciis sparsis, epidermide tectis; ostiolo conico; ascis 8-sporis, oblongis vel obelavatis, 50-60 \times 12-20, aparaphysatis; sporidiis oblongo-ovoideis, hyalinis vel minute granulosis, utrinque guttulatis 20-30 \times 8-10.

Hab. in caulibus emortuis Datiscæ glomeratæ, Folsom Californiæ.

6. **Phomatospora Sesbania** E. et E. Journ. Mycol. 1888, pag. 77 (ex 2389
err. 65). — Peritheciis sparsis 150-200 μ . diam., contextu grosse celluloso, partim erumpentibus papillatis; ascis clavato-cylindræis, 60 \times 10, imperfecte paraphysatis; sporidiis conferte biseriatis clavato-oblongis vel fusoido-oblongis, leniter curvis, flavido-hyalinis, 2-3-nucleatis, 14-16 \times 3,5-4.

Hab. in *Sesbania macrocarpa*, St. Martinsville La. Amer. bor. (LANGLOIS).

7. **Phomatospora botryosphærioides** Speg. F. Guar. II, n. 72. — 2390

Peritheciis subepidermicis, hinc inde densiuscule gregariis, semper tamen discretis, e lenticulari conoideis, 200-250 μ . diam., tectis, ostiolo papillulato epidermidem perforante donatis, atris, glabris, subcarbonaceis, contextu indistincto; ascis cylindraceis, antice rotundatis crasseque tunicatis 1-foveolatisque, deorsum leniter attenuatis, pedicello crasso brevique suffultis, 85-90 \simeq 18, 8-sporis, aparaphysatis; sporidiis distichis, ellipticis vel subrhomboideis, utrinque obtusiuscule subacutatis, 18-20 \simeq 8-9, continuis, hyalinis.

Hab. ad ramulos dejectos putrescentes in umbrosis humidis pr. Guarapí Brasilæ. — Species pulchella, formæ gregariæ ac aparaphysatæ *Botryosphæriæ Berengerianæ* De Not. simillima! An ejusdem varietas?

8. **Phomatospora ribesia** Cooke et Mass. Grevill. XV, p. 110. — Pe- 2391

ritheciis gregariis, subepidermicis, globosis, nigris, papillatis, primo tectis, erumpentibus, ostiolo et parte superiore demum protrudentibus; ascis clavatis vel subcylindraceis; sporidiis anguste ellipsoideis, continuis, 2-guttatis, hyalinis, 10 \simeq 4.

Hab. in ramulis Ribis Grossulariæ, Battle Abbey Britannæ (E. G. BAKER).

9. **Phomatospora Berberidis** Rich. Bull. Soc. Myc. 1888, pag. LIII, 2392

t. IV, f. 2. — Peritheciis membranaceis, minutis, tectis v. erumpentibus, discretis, ostiolo papillato; ascis cylindraceo-filiformibus, aparaphysatis; sporidiis octonis, monostichis, phomatoideis, continuis, hyalinis, 2-guttulatis.

Hab. in Berberide in Gallia. — Status spermogonicus *Phomam* referens.

10. **Phomatospora endopteris** Phill. et Plowr. in Grevillea XIII, p. 76. 2393

— Peritheciis globosis, profunde petiolo frondium immersis; ostiollis minutis, collo longo, cylindrico, superficiem perforante præditis; ascis cylindricis, 30 \simeq 5; sporidiis oblongis, ovoideis, hyalinis, simplicibus, uniseriatis, 10-11 \simeq 3.

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

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

1. **Physalospora gregaria** Sacc. Syll. I, p. 435. ***Ph. platanicola**: Sacc. 2394

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, Geneve (I. ROMÉ).

2. **Physalospora apiculata** (Kalch.) Sacc. *Sphæria apiculata* Kalch. 2395

A Szepsi Gombák II, p. 272, t. III, f. 2. — Peritheciis.....; ascis subfusoides utrinque acutis, octosporis; sporidiis distichis elliptico-oblongis, utrinque obtusis, continuis, haud constrictis, 2-4-guttulatis, hyalinis.

Hab. in ramis salicinis in Hungaria. — An eadem ac *Ph. Salicis* (Fuck.) Sacc. Syll. p. 439?

3. **Physalospora cymbisperma** Speg. F. Fueg. n. 155. — Peritheciis 2396

cortice nidulantibus, peridermio tectis, densiuscule gregariis, e globoso depressa, $300-350 \mu$. diam., atris, glabris, levibus, non v. vix papillulato-ostiolatis, coriacellis, contextu in juventute subpellucido, parenchymatico, dein opaco, indistincto; ascis cylindraceutis, apice subtruncato-rotundatis crassiusculeque tunicatis, bifoveolatis, basi modice attenuato-stipitatis, $120-130 \approx 6-7$, 8-sporis; paraphysibus filiformibus, septulatis obvallatis; sporidiis recte monostichis, elliptico-cymbiformibus, utrinque acutiuscule rotundatis, $12-14 \approx 5$, primo granuloso-farctis, dein grosse 1-guttulatis, hyalinis.

Hab. ad corticem ramorum Fagi betuloidis in Staten island Amer. austr.

4. **Physalospora nigro-punctata** Rom. Fungi aliq. Suec. p. 23. — Pe- 2397

ritheciis sparsis v. laxe gregariis, in ligno non elevato, intus pallido, extus nigro-punctato totis immersis, lenticulari-depressis, ostiolo brevi, integro, vix emerso, præditis, extus nigris, intus atris, $\frac{1}{8}-\frac{1}{4}$ mm. lat., $\frac{1}{8}-\frac{1}{6}$ mm., ostiolo incluso alt.; ascis sessilibus, oblongis vel clavato-oblongis, utrinque angustatis, apice truncatis, 8-sporis, paraphysatis, $75-100 \approx 12-15$; paraphysibus parcis, filiformibus; sporidiis subdistichis vel oblique monostichis, oblongo-ellipsoideis, continuis, guttatis v. granulosis, $19-22 \approx 6-8$.

Hab. in ramis emortuis decorticatis Piri Mali ad Visby Gotlandiæ Sueciæ.

5. **Physalospora Nerii** Pass. Diagn. F. N., I, n. 5. — Peritheciis spar- 2398

sis, cortici immersis, atris, primo tectis, dein plus minus nudatis; ascis clavatis, paraphysibus crassis, æquilongis, obvallatis basi attenuato-stipitatis, 8-sporis?; sporidiis oblongo-ellipticis, integris, hyalinis, 1-3-guttulatis, $25 \approx 7,5$.

Hab. in ramis siccis Nerii Oleandri, Livorno Italiæ.

6. **Physalospora rhodina** Berk. et Curt. in Curtis Catalogue p. 148, 2399

Grevill. XVII, p. 92. — Gregaria, tecta; peritheciis subglobosis, minimis, atris, ostiolis erumpentibus; ascis clavatis, 8-sporis; sporidiis sublanceolatis, continuis, hyalinis, 30-35 \approx 10.

Hab. in ramis Rosa rubiginosæ, Carolina Amer. bor.

7. **Physalospora phyllodii** Cooke et Mass. Grevill. XVI, p. 114. — 2400

Peritheciis tenuissimis, immersis, cuticula nigricante superne tectis; ascis clavato-stipitatis, 8-sporis, paraphysatis; sporidiis ellipticis, intus granulosis, continuis, hyalinis, 20 \approx 8.

Hab. in phyllodiis Acaciæ suaveolentis, Melbourne Australiæ (MISS CAMPBELL).

8. **Physalospora uvæ-sarmenti** (Cooke) Sacc. *Sphæria uvæ-sarmenti* 2401

Cooke Grev. XI, 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. inf. Amer. bor. (RAVENEL).

9. **Physalospora baccæ** Cavara Dissecc. Grapp. p. 23, t. III, f. 12-14. 2402

— Peritheciis sparsis, globosis, epidermide tectis, demum erumpentibus, 250-280 μ . diam., extus fuscis, intus albidis, ostiolo prominulo perforatis; ascis clavatis, octosporis 60-70 \approx 8-10, paraphysibus filiformibus, ascis longioribus; sporidiis ellipticis, utrinque obtusis, 15-16 \approx 4-5.

Hab. in baccis Vitis viniferæ nondum maturis, Stradella in Italia boreali.

10. **Physalospora Potentillæ** Rostr. Fungi Groenl. p. 548. — Perithe- 2403

ciis globosis, sparsis; ascis ovato-oblongis, fasciculatis, 32-34 \approx 8-9, paraphysatis; sporidiis elongatis, guttulatis, 10 \approx 1-2.

Hab. ad caules petiolosque siccos Potentillæ maculatæ in Upernivik Groenlandiæ.

11. **Physalospora Geranii** Cooke et Hark. in Grevillea XIII, p. 9. — 2404

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).

12. **Physalospora polaris** Rostr. Fungi Groenl. p. 548. — Peritheciis 2405

sparsis, cauliculis; ascis ovato-oblongis, 35-40 \approx 6-8, paraphysatis; sporidiis elongatis, guttulatis, 10-12 \approx 2.

Hab. ad caules aridos Papaveris nudicaulis in Kangerdlugsuak Groenlandiæ.

13. **Physalospora Solidaginis** (Fr.) Malbr. Bull. Soc. Myc. 1888, pag.

XXXII, *Sphæria* Fr. — Syll. II, p. 433. — Ascis 85 = 9-10, clavatis, basi attenuatis, apice rotundatis; paraphysibus numerosis, apice subincrassatis, interdum contortis; sporidiis monostichis, ovoideis, 10-16 = 4,5-5. — In caulibus emortuis *Solidaginis* in Normandia Galliæ.

14. **Physalospora nebulosa** Malbr. Bull. Soc. Myc. 1888, p. XXXII. 2406

— Peritheciis numerosis, parvis, coopertis, pustulatis, macula brunneo-grisea insidentibus, ostiolo prominulo præditis; ascis clavato-fusoideis, 70-76 = 13-14; paraphysibus delicatulis; sporidiis distichis oblongo-ovoides, hyalinis, continuis, 1-2 grosse guttulatis, 14-22 = 5,5-6,5.

Hab. in caulibus herbaceis majoribus Umbelliferarum? in Normandia Galliæ.

15. **Physalospora Ononidis** Rich. Cat. Champ. Marn. n. 1197. — Pe- 2407

ritheciis subepidermicis, ostioliis nigris, erumpentibus; ascis fusoides, latis; paraphysibus paucis, fugacibus; sporidiis ellipsoideis, oblongis.

Hab. ad caules emortuos *Ononidis Natricis*, St. Amand Marne Galliæ. — *Ph. minutellæ* affinis.

16. **Physalospora Pseudo-pustula** (Berk. et Curt.) Briard et Hariot 2408

Rev. Myc. 1890 Oct. *Sphæria Pustula* Berk. et Curtis. — Peritheciis sparsis, nigris, subconicis, epidermidem elevantibus, maculigenis, 0,5 mm. diam., amphigenis; ascis ovoideo-oblongis, sessilibus?, 8-sporis, 60 = 20; sporidiis distichis, ellipsoideis, simplicibus, hyalinis, granulosis, 18 = 8.

Hab. in folio putrescente in Amer. bor. confœd. (FARLOW).

17. **Physalospora abietina** Prill. et Dalacr. in Bull. Soc. Myc. VI, 2409

pag. 114, t. XVI. f. III-V (1890) — Peritheciis dense gregariis, epidermide tectis, atris, vertice applanatis, 250-290 = 155-170; ascis 8-sporis, 130 = 8; sporidiis monostichis vel subdistichis, granulosis v. guttulatis, ovoideis sed parte inferiore paullum attenuatis, hyalinis, 24-26 = 10, in asco juniore strato mucoso circumdatis.

Hab. in pagina superiore acuum emortuarum *Abietis excel-sæ* in Gerardmer Vosges.

18. **Physalospora alpina** Speg. — Sacc. Syll. I, p. 436. ***Ph. Crepi-** 2410

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 = 10-25, paraphysatis, octosporis, brevissime stipitatis; spo-

ridiis distichis, oblongo-ellipsoideis, utrinque rotundatis, 20-26 \approx 10-11, ex 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.

19. **Physalospora Ilicis** (Schl.) Sacc. *Sphæria Ilicis* Schleich in El. 2411
lis North Americ. Fungi n. 196. — Peritheciis sparsis, epidermide demum rimose rupta, centro albida tectis, prominulis, epiphyllis, globosis globosove-conoideis $\frac{1}{3}$ mm. diam.; ascis cylindraceutis 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*».

20. **Physalospora fusispora** Sacc. et Roum, in Rev. Myc. 1883, 2412
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, fusoideis, rectiusculis, utrinque acutatis, 23-26 \approx 5-6, hyalinis.

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

21. **Physalospora bina** Harkn. New Calif. Fungi pag. 23. — Epi- 2413
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 gracilem 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.

22. **Physalospora quercifolia** Ell. et Ev. in Journ. of Myc. 1885. — 2414
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, ostiolis papillæformibus, per epidermidis rptionem vix visibilibus præditis; ascis oblongis, 75-80 \approx 12, basi in pedicellum brevem, abrupte truncatum desinentibus; sporidiis disti-

chis, 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.

23. **Physalospora Philippiana** Wint. Exot. Pilze IV, p. 3. — Peri- 2415
 theciis in maculis minutissimis, hypophyllis, sparsis, rotundatis v. plus minus irregularibus, albido-griseis, exaridis, sæpe linea elevata, obscuriore, determinata cinctis, 200-500 μ . lat., solitariis v. 2-4 gregariis, totis immersis, subglobosis, vertice poro simplici pertuso tantum erumpentibus sed haud v. vix prominulis, atris, membranaceis, 124-140 μ . lat.; ascis cylindraceo-subclavatis, deorsum in stipitem brevem attenuatis, apice truncatis, 8-sporis, 70-72 \approx 10,5-14; paraphysibus filiformibus, diffluentibus; sporidiis subdistichis, plerumque oblique stipatis, oblongo-clavatis, utrinque rotundatis, continuis, hyalinis, 19-23 \approx 5,5.

Hab. in foliis vivis *Myrtaceæ* cujusdam, San Pedro pr. Quilota, Amer. austr. (F. PHILIPPI).

24. **Physalospora multipunctata** Winter Grevill. XV, p. 88. — Pe- 2416
 ritheciis numerosis, supra foliorum partes magnas dense gregarieque sparsis, macula permagna, indeterminata irregularique, sordide fuscidula vel luteola insidentibus, solitariis in tuberculo e parenchymate foliorum formato, utrinque prominulo inclusis, globosis, ostiolo papilliformi pertuso erumpenti, haud vero prominentibus, atris, carbonaceis, fragilibus, 190-200 μ . diam.; ascis oblongo-clavatis, longissime pedicellatis, 8-sporis, p. sp. 50-62 \approx 19,5-23; sporidiis conglobatis, oblongis, supra medium latissimis, utrinque rotundatis, hyalinis, nubiosis, 18 \approx 7.

Hab. ad folia viva *Melastomaceæ* cujusdam in Brasilia (ULE).

25. **Physalospora Arthuriana** Sacc. Mich. II, p. 569. — Peritheciis 2417
 epiphyllis, in maculis subochraceis gregariis, innato-superficialibus, globoso-depressis, atris, $\frac{1}{6}$ mm. diam.; ostiolo obsoleto; contextu perithecii parenchymatico ochraceo-fusco; ascis cylindraceis breve stipitatis, 90 \approx 12, paraphysatis, apice rotundatis, octosporis (rarius clavatis, 60 \approx 18); sporidiis oblique monostichis, raro distichis, ellipsoideis, utrinque obtuse rotundatis, 11-13 \approx 7, 2-3-guttulatis, hyalinis.

Hab. in foliis subvivis *Ivæ xanthifoliæ*, Jowa U. S. America, ubi legit J. C. ARTHUR (ELLIS). — *Physalosporæ Astragali* affinis.

26. **Physalospora Thistletonia** Cooke Grev. XVIII, pag. 74. — Epi- 2418
phylla; maculis irregularibus, magnis, pallidis, roseolo-marginatis;
peritheciis supra maculas sparsis, depresso-globosis nigris, epider-
mide tectis; ascis clavatis; sporidiis distichis, sublanceolatis, con-
tinuis, hyalinis, 3-5-guttatis, 22 = 7.

Hab. in foliis putrescentibus *Rhododendri* in Britannia.

27. **Physalospora coccodes** (Lév.) Sacc. Syll. I, p. 446 et in Rev.
Myc. 1885, p. 156. — Perithecia epidermide nigrâ, nitidâ tecta;
asci 90-100 = 10-14; sporidia 10-12 = 8. — Nascitur quoque in fo-
liis *Oreodaphnes* et *Cerasi* in Cuba.

28. **Physalospora tecta** Wint. in Hedw. 1885. — Peritheciis spar- 2419
sis vel gregariis, immersis, depresso globosis, membranaceis, fu-
scis, 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 = 14-18; sporidiis inordinatis, ellipsoideis v. oblongo-subclavatis,
unicellularibus, guttula magna præditis, hyalinis, demum dilutissi-
me fuscidulis, 16-21 = 8-9; paraphysibus filiformibus, indistinctis.

Hab. in foliorum *Palmarum* partibus exsiccatis in Brasilia
prope S. Francisco Amer. bor.

29. **Physalospora Pandani** Ell. et Ev. Proc. Phil. 1890, p. 230. — 2420
Peritheciis amphigenis, maculis magnis, sordide albis, purpureo-
marginatis insidentibus, epidermide tectis, subglobosis, 150-200 μ .
diam., membranaceis, apice et ostiolo papilliformi erumpentibus;
ascis cylindræis, circ. 100 = 10; paraphysibus imperfectis evane-
scentibus; sporidiis 1- v. 2-stichis, hyalinis, granulosis, oblongo-
ellipsoideis, 18-20 = 7-8.

Hab. in folio *Pandani* in tepidario Knoxville, Tennessee
Amer. bor. (prof. F. L. SCRIBNER).

30. **Physalospora caricicola** Karst. Symb. XIX, p. 87. — Perithe- 2421
ciis minutis, atris; ascis cylindræo-clavatis, circ. 24 μ . cr., 8-
sporis; sporidiis oblique monostichis, ellipsoideis, continuis, 22-27
= 9-12.

Hab. in foliis emortuis *Caricis* digitatæ ad Mustiala Fennicæ.

31. **Physalospora Magellanica** Speg. F. Fueg. n. 156. — Peritheciis 2422
hinc inde dense gregariis, macula parvula arescenti-cinerea, 2-3
mm. diam. insidentibus, cortice nidulantibus, peridermio velatis,
globulosis, 150-180 μ . diam., glabris, atris, coriacellis, ostiolo la-
tiusculo vix papillulato, non v. vix exserto donatis, contextu sub-
indistincto, olivaceo; ascis cylindræis, apice rotundatis, basi ab-

ruptiuscule contractis ac pedicello brevissimo crassiusculo suffultis, $60 \approx 17$, octosporis; paraphysibus filiformibus, parcis; sporidiis oblique monostichis, ellipticis, utrinque acutiuscule rotundatis, $14-15 \approx 6-6,5$, hyalinis.

Hab. ad culmos languidos Junci cujusdam in Punta anegada, in Freto Magellanico Amer. austr.

32. **Physalospora zeicola** E. et E. Proc. Phil. 1890, p. 229. — Peritheciis gregariis, minutis, $\frac{1}{4}-\frac{1}{3}$ mm. diam., epidermide subelevata et ostiolo obtuso conico, nigro, micante pertusa, tectis; ascis clavato-cylindraceutis, $75-80 \approx 12-15$, subsessilibus, copiose paraphysatis; sporidiis conferto-distichis, ellipsoideis v. amygdaliformibus, hyalinis, granulosis, $18-20 \approx 8-10$. 2423

Hab. in culmis emortuis Zeæ Maydis in Newfield, N. Jersey Amer. bor.

33. **Physalospora conica** Ell. et Ev. Proc. Phil. 1890, pag. 229. — Peritheciis gregariis, erumpentibus, superficialibus, conicis, circ. $0,5$ mm. lat. et alt.; ascis oblongis, circ. $75 \approx 20$, copiose paraphysatis; sporidiis distichis ellipsoideis, hyalinis, granulosis, uno latere sæpe convexioribus, $20-22 \approx 10-12$. 2424

Hab. in culmis vetustis Arundinariæ, St. Martinsville, Louisiana Amer. bor. (REV. LANGLOIS). — Fructificatio *Botryosph. fuliginosæ* sed perithecia sparsa, conica.

34. **Physalospora Psammæ** Oud. Contr. Fl. Myc. Pays-Bas XI, p. 20. — Peritheciis epiphyllis, sparsis, atris, glabris, membranaceis, immersis, prominente tantum ostiolo, brevi, papilliformi; ascis cylindraceutis 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. 2425

Hab. in foliis Psammæ littoralis, Pulten Hollandiæ.

- 14 35. **Physalospora paraguayana** Speg. Fung. Guar. Pug. I, n. 185. — Peritheciis primo tectis, dein erumpenti-semiimmersis, laxe 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 cylindraceutis, $65-70 \approx 3-4$, apice truncato-rotundatis crassiusculeque tunicatis, posticè breviuscule attenuato-pedicellatis, octosporis; paraphysibus mucoso-evanescentibus, densis obvallatis; sporidiis monostichis, ellipticis, 2426

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 Brasilæ.

36. **Physalospora Sacchari** (B. et Br.) Sacc. *Sphæria* B. et Br. *Brisb.* 2427 III, pag. 223, t. XXIX, f. 36-39. — Peritheciis sparsis v. gregariis, minutis, nigris, erumpentibus, filamentis atro-brunneis, septatis cinctis; ostioli sublongis, acutis, epidermidem perforantibus; ascis linearibus, 8-sporis; sporidiis oblongis, continuis, utrinque 1-guttulatis, 37 μ . long.

Hab. in foliis Sacchari officinarum, Queensland Australiæ (WILLIAM BROOME). — Habitus immaturus.

37. **Physalospora leptosperma** Rost. *Fungi Groenl.* p. 548. — Peritheciis gregariis, epidermide nigrificata tectis, globosis; ascis fasciculatis, cylindræis, 8-sporis, paraphysatis; sporidiis distichis, fusoideo-elongatis, guttulatis, 12 \approx 2. 2428

Hab. in culmis vaginisque Calamagrostidis purpurascens in Ikertok Groenlandiæ.

38. **Physalospora maculans** Karst. *Rev. Myc.* 1890, p. 127. — Peritheciis amphigenis, laxiuscule gregariis, macula fulvescente pallida insidentibus, semiinnatis, parte emersa conoideo-rotundata v. ovali, atris, ostiolo orbiculari vel elongato umbilicato, circ. 0,4 mm. diam.; sporidiis octonis, ellipsoideis, continuis, hyalinis, 22-26 \approx 9-12. 2429

Hab. in foliis languentibus Bambusæ cujusdam ad Halphong in Tonkin, æstate (BALANSA). — A *Physalospora Bambusæ* (Rab.) Sacc. satis diversa,

39. **Physalospora Cynodontis** G. Delacroix *Bull. Soc. Myc. Franc.* 2430 1890, p. 183. — Peritheciis immersis, ostiolo prominente 200-270; ascis cylindræis v. subclavatis, crasse tunicatis, 60 \approx 10; sporidiis hyalinis, primum subdistichis guttulatis, dein monostichis, ovato-piriformibus, 11 \approx 6; paraphysibus ramosis, $\frac{3}{4}$ μ . latis.

Hab. in foliis vivis Cynodontis Dactyli, sæpius in pagina superiore, Seville Hispaniæ.

40. **Physalospora ? oxystoma** Sacc. et Ell. *Mich.* II, p. 568. — Peritheciis gregariis, globoso-conoideis, innato-erumpentibus, nigris, minutis, ostiolo papillato exstante; nucleo albo; ascis tereti-clavatis crasse tunicatis, 90-100 \approx 17-18, apice rotundatis, paraphysibus articulatis obvallatis; sporidiis ovoideis (immaturis visis). 2431

Hab. in culmis Phlei pratensis, Newfield N. J. (ELLIS).

— Etsi sporidia immatura tantum visa, vera *Physalospora* videtur.

41. **Physalospora Lecanoræ** (Stein) Winter in Hedw. 1886, pag. 22, 2432
Thrombium Lecanoræ Stein Fl. Schles. p. 329. — Peritheciis superficialibus, sessilibus, minutissimis, hemisphæricis v. late conoideis, vertice truncato impressoque, late pertuso, 50 μ . 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* subfuscæ var. saxicolæ in Germania.

42. **Physalospora Collematis** (Stein) Winter in Hedw. 1886, pag. 22, 2433
Thrombium Collematis Stein Flechten Schlesiens p. 330. — Peritheciis globosis, omnino immersis, minutissimis, atris, nitidis, vertice vix prominulis, convexis, poro minutissimo pertusis, 50 μ . diam.; ascis cylindricis, 8-sporis; sporidiis monostichis, ovoideis v. ellipsoideis, guttulis oleosis, magnis præditis, 12-16 \approx 8-10, hyalinis; paraphysibus distinctis.

Hab. in fructibus *Collematis fulvi* in Germania.

43. **Physalospora? microthelia** (Wallr.) Winter in Hedwigia 1886, 2434 p. 23, *Verrucaria microthelia* Wallr. Flora I, pag. 209. — Peritheciis fere verrucarioideis, thalli areolis immersis, fuscis; paraphysibus indistinctis; sporidiis oblongis v. ovalibus simplicibus, hyalinis, 12-15 \approx 6-7,8 in ascis subcylindricis non raro uniseriatis.

Hab. in thallo sterili *Biatoræ coarctatæ* parasitans in Germania.

44. **Physalospora? psoromoides** (Borr.) Winter in Hedw. 1886, p. 23, 2435
Verrucaria psoromoides Borr. in Engl. Botan. Suppl. 2612, f. 1, *Endocarpon psoromoides* Hook., Brit. Flora II, p. 167, *Phacopsis psoromoides* Hepp Europ. Flecht. n. 475. — Peritheciis gregariis, thallo immersis, fere globosis, ostiolo fusco-atro, late pertuso, subhemisphærico 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.

UROSPORA H. Fabr. — Syll. I, p. 448.

1. **Urospora bicaudata** Pass. Diag. F. N., I, n. 6. — Peritheciis crebre sparsis vel gregariis, tectis, globosis, minutis, papillatis; ascis 2436