

roideis, atris, ostiolo minuto, papillato; ascis cylindricis; paraphysibus filiformibus stipatis, 8-sporis, $65 \approx 7,5-8$; sporidiis oblongis, primo hyalinis, 4-guttulatis, dein 3-septatis, loculis subæqualibus, jam intra ascos medio secedentibus, $15 \approx 5$.

Hab. in ligno denudato Populi, Baganzola pr. Parma Italiae.

2. **Ohleria Clematidis** Fautr. in Rev. Myc. 1891, p. 7. — Peritheciis 3269
in rimis corticis incrustato-nidulantibus, ostiolis variabilibus; ascis longe cylindræis; sporidiis monostichis, oblique ellipsoideis, obtusis, regularibus, 3-septatis, $15-18 \approx 5-6$, demum per septum medium secedentibus, loculis 2 submediis fuligineis, guttulatis, extimis hyalinis.

Hab. in sarmentis vetustis Clematidis, Forêt de Charuy Côte-d'Or Galliae.

MELANOMMA Nits. et Fuck. — Sacc. Syll. II, pag. 98, Cfr. Berl. Ic. I, p. 30*).

1. *Eu-Melanomma* Sacc.

1. **Melanomma Pulvis-pyrius** (Pers.) Fuck. — Sacc. Syll. II, p. 99. — Ex autopsia speciminum a cl. H. Fabre missorum huc ducendum *Melanomma Julii* Fab. — Sacc. Syll. II, p. 105.

2. **Melanomma Pulviscula** (Karst.) Berl. et Vogl. Add. Syll. p. 147. 3270
Berl. Ic. t. 19. f. 8, *Sphæria Pulviscula* Karst. in Hedwigia 1884, p. 60. — Peritheciis confertis vel crustaceo-congestis, raro sparsis superficialibus, ovoideis, ostiolo sat brevi, conoideo, sublevibus, atris, latit. circ. 0,2 mm.; ascis clavatis, pedicellatis, $45-60 \approx 6-8$; sporidiis octonis, di-vel subtristichis, elongatis curvulis, 3-septatis, ad septa leviter vel vix constrictis, loculo secundo leviter incrassato, eguttulatis, dilutissime fuscescentibus, diaphanis, $11-15 \approx 3-3,5$.

Hab. in ligno indurato pineo ad Mustiala Fenniae.

3. **Melanomma rhododendrophilum** (Rehm) Sac. *Othia rhododendrophila* Rehm Beitr. Hedw. 1882, p. 119. — Peritheciis ovoideis, 3271
atris, mediocribus, nitidis, collo minimo, ostiolo perspicuo pertusis, 2-8 congregatis in cortice interiore et per rimas epidermidis erumpentibus; ascis cylindræis, 8-sporis; sporidiis globosis, dein biscocitiformibus, denique subellipticis, 1-2, demum 4-cellularibus, fuscidulis, 1-stichis, $10 \approx 6$; paraphysibus filiformibus.

Hab. ad ramum siccum Rhododendri ferruginei prope

*) Cl. Berlese Ic. fung. I, p. 30, hoc genus cum *Trematosphaeria* conjungit, quod ipse jam feceram in Mich. I, pag. 345, hinc pluribus speciebus ab illo illustratis nomen «Berl.» in «Sacc.» esset mutandum.

Kühtai (OETZ), in alpinis tirolensibus, c. 2200 metr. alt. (Doct. REHM).

4. **Melanomma Buxi** H. Fab. Sphær. Vaubl. II, pag. 54, fig. 31 — Peri- 3272
 theciis acervulatis vel coalitis, ligno denudato et fuligineo con-
 spurcato insidentibus, plus minus infixis, mammæformibus, nitido-
 atris; ostiolo brevi, conoideo, $\frac{1}{2}$ mm. diam.; ascis . . . non visis;
 sporidiis oblongis, utrinque obtusis, 3-septatis, ad dissepimenta paullu-
 lum constrictis, rufo-fuligineis, loculis binis extimis dilutioribus, 22-
 25 \approx 8-9.

Hab. ad ramos exsiccatos et denudatos Buxi sempervirentis, Vaucluse Galliæ.

5. **Melanomma Terebinthi** H. Fab. Sphær. Vaubl. II. p. 54, f. 29. — 3273
 Peritheciis superficialibus, dense gregariis, ligno denudato et nigri-
 ficato insidentibus, globoso-mammæformibus, rugosiusculis, $\frac{1}{2}$ mm.
 latis; ostiolo vix conspicuo, pero minutissimo pertusis; ascis cylin-
 draceis, stipitatis, 8-sporis, 100-130 \approx 6-8; sporidiis monostichis,
 oblongis, utrinque obtuse conoideis, medio constrictis, 3-septatis,
 loculis binis intermediis rufo-brunneis, ultimis fere hyalinis, omni-
 bus 1-guttatis, 14-18 \approx 5, extra ascos, sporidiis in duos articulos bi-
 loculares secedentibus et tunc sporidia generis *Ohlericæ* æmulan-
 tibus.

Hab. ad plagas stirpis resecatæ Pistaciæ Terebinthi, Vaucluse Galliæ. Sec. Berl. Ic. pag. 31, t. 19. f. 5, vix differt a *M. silvano*.

6. **Melanomma australe** Speg. F. Fueg. n. 234. — Peritheciis ligno 3274
 denudato insidentibus, cortice secedente tectis, densiuscule aggre-
 gatis, subsuperficialibus, basi vix insculptis, globulosis, 180-250 μ .
 diam., atris, glaberrimis, levissimis, sæpe subnitentibus, carbona-
 ceis, contextu opaco indistincto, ostiolo minuto vix impresso, ra-
 rius subpapillulato, donatis; ascis cylindraceis, apice rotundatis,
 crassiuscule tunicatis, late 1-foveolatis, deorsum breviter crasse-
 que attenuato-pedicellatis, 75-110 \approx 6-8, 8-sporis, dense paraphy-
 satis; sporidiis oblique monostichis, elliptico-ovoideis, utrinque ob-
 tusiusculis, 12-15 \approx 5-5,5, 3-septatis, non v. leniter inæquilaterali-
 bus, ad septa constrictulis, præcipue ad medium, loculis sæpius
 grosse 1-guttulatis, pallide ex olivaceo cinerescensibus.

Hab. in ramis emortuis Pernettiæ, Ribis, Chiliotrichi, Empetri, Myrti etc. per totam Fuegiam et Staten island Americæ australis.

7. **Melanomma nigriseptum** Speg. F. Fueg. n. 236. — Peritheciis spar- 3275

sis, ligno infuscato immersis vel basi tantum infossis, globuloso-compressis, 400-600 μ . diam., atris, glabris, crasse carbonaceis, contextu indistincto opaco, ostiolo non vel vix papillulato, latiusculo, subumbilicato coronatis; ascis cylindraceis, antice rotundatis, crassiuscule tunicatis, late 1-foveolatis, postice plus minus attenuato-pedicellatis, 150-200 \approx 14, densiuscule paraphysatis, 4-8-sporis; sporidiis recte monostichis, ellipticis, elongatis v. subfusoides, utrinque obtusiuscule rotundatis, 30-40 \approx 10-12, subcurvulis v. leniter inæquilateralibus, 7-9-septato-constrictis, pallide fuliginis, septis crassis, nigris, opacis notatis.

Hab. ad ramos emortuos v. vivos Escalloniæ serratæ in Staten island Amer. austr. — Species habitu fungino, sed ascorum sporidiorumque fabrica lichenina! Conidia non visa! Iodi ops nulla.

8. **Melanomma Granati** H. Fab. Sphér. Vaubl. II, pag. 54. fig. 30. 3276
Berl. Ic. t. 21. f. 6. — Peritheciis numerosissimis, ut plurimum dense confertis nunc lignicolis et superficialibus, nunc corticulis et plus minus cortice infixis, deorsum globosis, sursum conoideis, breve papillatis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. latis; sporidiis oblique monostichis, oblongis utrinque obtusis, 3-septatis, flavis, dein brunneo-rufulis, loculis 1-guttatis, 13-16 \approx 6-7.

Hab. ad ramos exaridos Punicæ Granati, in sepibus umbrosis Vaocluse Galliæ. — A *Mel. Requiæni* non distinguendum sec. Berl. l. c.

9. **Melanomma rubinum** Karst. Hedw. 1888 (*Sphæria*). — Peritheciis 3277
parce acervulatis, per epidermidem fissam erumpentibus, ovoideis v. sphæroideis, poro pertusis vel papilla conoidea cum perithecio confluyente instructis, levibus, atris, 0,4 mm. diam.; sporidiis monostichis, oblongatis, utrinque obtusis, curvulis, 3-septatis, ad septa leviter constrictis, melleis, 21-24 \approx 6-9; paraphysibus coalescentibus.

Hab. in ramulis siccis Rubi idæi ad Vasam Fennicæ.

10. **Melanomma rupefortense** Pass. in Brun. Met. myc. Saint. p. 17. 3278
— Peritheciis superficialibus, globoso-conicis, nigris, ostiolo papillato, dein pertuso; ascis elongatis, clavatis, basi longe attenuatis, 135 \approx 15, paraphysatis; sporidiis octonis, 1-stichis, primo hyalinis, naviculari-fusoideis, 3-septatis, demum loculis intermediis valde turgidis, brunneis, loculis extimis parvis, hyalinis, medio subconstrictis, 25 \approx 10.

Hab. in radicibus emortuis Pruni spinosæ, Rochefort Galliæ. — *M. Minervæ* affine sed perithecorum forma diversum.

11. **Melanomma Dryadis** Johans. in Hedw. 1890, p. 160. — Peritheciis gregariis v. crustaceo-congestis, per epidermidem elevatam et laceratam erumpentibus, superficialibus, subsphæroideis, breviter papillatis, ostiolo rotundato pertusis, levibus, nigris, 200-300 μ . diam.; ascis cylindræis v. subcylindræis, paraphysatis, breviter stipitatis, 8-sporis, 68-92 \approx 10-13,5; sporidiis distichis, oblongis v. ovoideo-oblongis, utrinque obtusis, 3- rarissime 4-5-septatis, loculo secundo sæpe nonnihil inflato, ad septum medium constrictis, dilute olivaceo-flavescentibus, rectis vel raro leviter curvatis, 18-27 \approx 6,5-7,5.

Hab. in fructibus et calycibus emortuis Dryadis octopetalæ. Jemtlandia Sueciæ (C. J. JOHANSON).

12. **Melanomma Henriquesianum** Bres. et Roum. Rev. Myc. 1891, 3280 p. 68. — Peritheciis pulvinatis v. subhemisphæricis, basi applanatis, superficialibus apparentibus sed epidermide nigrificata et cum peritheciis concreta velatis, atris, nitidulis, carbonaceis, cortice crasso præditis, apice poro pertusis, $\frac{2}{3}$ -1 mm. lat.; ascis cylindræis, basi attenuato-stipitatis, 120-140 \approx 13-16; paraphysibus filiformibus, ascos superantibus; sporidiis ellipsoideis, 4-guttulatis, 4-septatis, ad septa leniter constrictis, luteolis, 22-30 \approx 9-12.

Hab. in cortice Theobromatis Cacao, Mongoiasula St. Thomæ Africæ occid. (MOLLER).

13. **Melanomma fuscidulum** Sacc. Syll. II, p. 99. Berl. Ic. tab. 19 f. 6. 3281
 Var. **fructicolum** Brun. Champ. obs. Env. Saint. II, pag. 5. — Peritheciis minutis, sparsis, atris, subsuperficialibus vel basi leniter cortice insculptis, subglobulosis vel conoideis, ostiolo vix elongato; ascis claviformibus, pedicello brevi instructis, 65 \approx 6, octosporis; sporidiis sursum submonostichis, fusoides, rectis vel parum curvatis, 3-septatis, brunneolis, 15 \approx 3.

Hab. in fructibus putrescentibus Fagi, Saintes Galliæ.

14. **Melanomma Mussatianum** Sacc. et Roum. in Rev. Myc. 1883. 3282 tab. 40, fig. 11. — Peritheciis dense gregariis, superficialibus, globoso-conicis, obtuse papillatis, $\frac{1}{2}$ mm. diam., nigris, contextu radiato, duriusculo; ascis anguste cylindricis, breve stipitatis, paraphysatis, 120-140 \approx 7-8, octosporis; sporidiis 1-stichis v. subdistichis, fusiformibus, utrinque acutis, rectis vel curvulis, 25-30 \approx 5, 3-septatis, ad septum medium leniter constrictis, olivaceo-fuligineis.

Hab. in ligno Quercus Fagi etc. in Gallia. — Sec. Berl. Ic. t. 21, f. 1 non satis differt a *M. Holmskjoeldii*.

15. **Melanomma effugiens** (Karst.) Berl et Vogl. Add. Syll. p. 148, 3283

Sphæria effugiens Karst. Rev. atque Synop. Ascom. feun. p. 48. — Peritheciis laxè gregariis vel subsparsis, erumpentibus, subinde demum subsuperficialibus, subsphæroideis, levibus, atris, 2-3 mm. diam., ostiolo conoideo, obtuso, dein pertuso, subinde confluyente; ascis cylindræo-clavatis, 105-120 μ . long. (p. sp.); sporidiis octonis, oblique monostichis, oblongatis, utrinque obtusis, 3-septatis, ad septa leviter constrictis, melleis, 18-22 \approx 7-8,5; paraphysibus haud bene discretis.

Hab. in cortice et ligno ramorum aridorum Ulmi in Mustiala Fennia. — Sec. Berl. Ic. t. 21, f. 14 a *M. sanguinario* non satis diversum. Status pycnidicus et spermogonicus socii adsunt peritheciis subsimilibus; sporulis ellipsoideis, simplicibus, fuscis 7-8 \times 4; spermatiis elongatis, hyalinis, rectis, 3-4 \approx 5.

16. **Melanomma Caricæ** Passer. Diagn. F. N. III, n. 23. — Peritheciis gregariis v. sparsis, per corticem fissum erumpentibus v. illo consumpto, demum nudatis, ligno insidentibus, subglobosis, glabris, opacis, ostiolo papillari nitidulo, vertice tandem depressis; ascis elongato-clavatis, inferne attenuatis; paraphysibus tenuibus stipatis, 8-sporis, 70-80 \approx 8-10; sporidiis subdistichis, fusiformibus, utrinque acutis, 3-septatis, ad septa non v. vix constrictis, melleo-fuscescentibus, 12 \approx 15. 3284

Hab. in ramo sicco Fici caricæ, Parma Italia. — Observante Berlese, an potius *Leptosphæria*?

17. **Melanomma subsparsum** Fuck. — Sacc. Syll. II. p. 102, Winter in Hedwigia 1884, p. 100. — Ascis oblongo-cylindræis, apice rotundatis, subsessilibus, 57-63 \approx 9.

18. **Melanomma subdispersum** (Karst.) Berl. et Vogl. Add. Syll. p. 148. 3285
Sphæria subdispersa Karst. in Hedwigia 1884, p. 57. — Peritheciis sparsis, superficialibus, subinde basi subinnatis, ovoideis astomis v. demum poro pertusis, scabriusculis, atris, latit. circ. 0,3 mm. diam.; sporidiis elongato- vel oblongato-fusoideis, rectis, 3-septatis, ad septum medium leviter constrictis; loculis uniguttulatis, flavidis, 18-25 \approx 5-6,5.

Hab. ad corticem Betulæ albæ in Sibiria occidentali prope Samarova (EDW. WAINIO). — Statum ejus conidicum sistit socium obvium *Helminthosporium longipilum*.

19. **Melanomma populinum** Schulz. et Sacc. in Rev. Myc. 1884. Schulz. 3286
Ill. Fung. Slav. n. 155. — Peritheciis gregariis, globoso-hemisphæricis, ligno basi infossis, vertice obtusiusculis, intus albidis, extus nigris, levibus, $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam.; ascis tereti-clavulatis, deorsum at-

tenuatis, paraphysatis, octosporis; sporidiis distichis, fusoides, curvulis, 26-30 \approx 6, 7-9-septatis, ad septa constrictis, initio 8-10-guttulatis, fuligineis.

Hab. in ligno Populi, socio *Coniothecio*, pr. Vinkovce Slavoniæ.

20. **Melanomma Roumegueri** Karst. in Rev. Myc. 1890, n. 47. — Peritheciis sparsis, ut plurimum sphæroideis, ligno innatis, vertice obtuso emergente, atris, levibus, glabris, basi subinde hyphis paucis fuligineis obsessis, membranaceo-carbonaceis, fragilibus, circiter 0,2 mm. diam.; ascis cylindræo-clavatis, deorsum attenuatis, circiter 75 \approx 10; sporidiis octonis, distichis, oblongatis, rectis vel curvulis, 1-3-septatis, primitus loculis uniguttulatis, ad septa vix v. leviter constrictis, ex hyalino dilute fuligineis, 16-23 \approx 5-7; paraphysibus numerosis, flexuosis, 2 μ . cr. 3287

Hab. in ligno putri Populi an Noidan Galliæ (F. FAUTREY).

21. **Melanomma crypticum** (Karst.) Berl. et Vogl. Add. Syll. p. 149, *Sphæria cryptica* Karst. in Hedw. 1884, n. 4, p. 6. Rev. atque Synop. Ascom. fenn. pag. 49. — Peritheciis subsparsis, primitus cortice tectis, deinde ea divulsa nudatis, sphæroideo-subapplanatis, interdum inæqualibus, glabris, subatris, vulgo papillis minusculis, obtusissimis, 3-5 mm. lat.; sporidiis fusoides-vel ovoideo-oblongatis, 3-5-septatis, ad septa vix vel leviter constrictis, solito rectis, flavis, 13-18 \approx 5-6. 3288

Hab. in ramulis emortuis Viburni Opuli pr. Vasa Fenniæ.

22. **Melanomma taphrinoides** Sacc. et Schulz. in Rev. Myc. 1884, Schulz. Ill. Fung. Slav. n. 695. — Peritheciis gregariis, ligno immersis v. semiimmersis et superficialibus, globulosis, carbonaceis, 0,3-0,4 mm. diam., ostiolo obtusissimo et obsoleto; ascis cylindricis, paraphysatis, breve stipitatis, octosporis; sporidiis oblique distichis, ovato-oblongis, utrinque rotundatis, 3-septatis, ad septa præcipue medium, constrictis, 18-22 \approx 8, fuligineis, pallidius 4-guttatis. 3289

Hab. in ramis emortuis Salicis prope Vinkovce Slavoniæ. — Affine *Melanommali cinereo*.

23. **Melanomma vinosum** Fautrey Rev. Myc. 1890, p. 22. — Peritheciis regularibus, in macula vinosa gregariis, ostiolo conoideo, irregulari, pertuso; ascis fusoides, brevissime stipitatis; sporidiis 2-3-stichis, fusoides, obtusis, subcurvulis, apice altero crassiore, 3-septatis, flavis v. pallide olivaceis. 3290

Hab. in Salice decorticata, socia *Diplodiella crustacea*, Noidan, Côte-d'Or Galliæ (F. FAUTREY).

24. **Melanomma truncatulum** Sacc. et Roum. in Rev. Myc. 1883. t. 40, 3291

fig. 12. — Peritheciis hinc inde subaggregatis, superficialibus, carbonaceis, nigris $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., subinde duobus coalitis, ostiolo obtuse truncato, inæquali, interdum obliquo; ascis cylindræis, brevissime stipitatis, paraphysatis, octosporis, 130-140 \approx 10; sporidiis oblique 1-stichis, oblongo-fusoideis, 3-septatis, ad septa constrictis, 20 \approx 7, loculis extremis subhyalinis, mediis olivaceo-fuliginis.

Hab. in ramis decorticatis Salicis in Gallia. — *Mel. medio* affine.

25. **Melanomma erraticulum** (Karst.) Berl. et Vogl. Add. Syll. p. 148, 3292

Ic. t. 20. f. 2, *Sphæria erraticola* Karst. Rev. atque Synop. Ascom. fenn. p. 48. — Peritheciis sparsis, superficialibus, obovoideis, vulgo vertice in ostiolum conoideum, brevissimum, pertusum attenuatis, atris, glabris, levibus, circ. 2 mm. diam.; sporidiis monostichis, oblongatis, rectis vel curvulis, 3-septatis, luteolo-subfuscescentibus, 14-19 \approx 4,5-6; paraphysibus non bene discretis.

Hab. in cortice Aceris platanoidis in insula Runsala Fenn.

26. **Melanomma Moutonianum** Sacc. in Mout. Ascom. Liège. II, p. 9, 3293

t. I, f. 18-19. — Peritheciis conferte gregariis, ligno semiinfossis v. subsuperficialibus, atris, carbonaceis, $\frac{1}{3}$ mm. subglobosis, sed sæpe e mutua pressione irregularibus, obsolete papillatis, subinde subumbilicatis, postremo poro nonnumquam rima pertuso; ascis terti-clavatis, breve crasseque stipitatis, apice late rotundatis, 130-145 \approx 20-22, 8-sporis; paraphysibus filiformibus obvallatis; sporidiis distichis, fusoideis, rectis aut curvulis, primo diuque hyalinis, 4-guttatis, 1-septatis, demum 3-septatis, dilute fuscis, 36-50 \approx 8-10.

Hab. ad ramos decorticatos putrescentes ad ripas Mosæ, Liège Belgii. — Ab affinibus sporidiis longis facile dignoscitur, sed sec. Berl. Ic. p. 38, sporidia plerumque hyalina et tunc potius *Zignoel-læ* species.

27. **Melanomma rhodomelum** (Fr.) Sacc. Syll. II, p. 109, Winter in

Hedwigia 1885, p. 100. — Perithecia superficialia, sparsa, levia, glabra; asci substipitati, 70-87 \approx 7-8,5, sporidia mono-vel subdisticha, 14-16 \approx 5-5,5; paraphyses conglutinatæ.

28. **Melanomma seminis** (Cooke et Hark.) Berl. et Vogl. Add. Syll. 3294

p. 149, Ic. t. 25. f. 4, *Sphæria seminis* Cooke et Harkness in Grevillea XIII, p. 18. — Superficiale, gregarium; peritheciis $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., atris, opacis, subglobosis, quandoque subconfluentibus, ostiolo pertuso; ascis clavatis; sporidiis cylindræis, rectis curvulisve, 5-septatis, fuscis, 50 \approx 6.

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

29. **Melanomma tetonense** Ell. et Ev. Proc. Phil. 1890, p. 240. — 3295

Peritheciis sparsis, erumpenti-superficialibus, ovoideo-globosis, sublevibus, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., supra collabentibus; ostiolo anguste, subprominulo; ascis clavato-oblongis, 75-80 \approx 18-20, copiose paraphysatis; sporidiis confertis, subdistichis, fusoideo-cylindraceutis, subcurvulis, flavis, 5-septatis, 22-27 \approx 6-7, in asco utrinque acutis, dein liberis obtusis.

Hab. in cortice *Artemisiæ canæ* in valle fluminis Teton, Montana Amer. bor. (ANDERSON). — A *M. occidentali* differt peritheciis sparsis, majoribus, sporidiis quoque majoribus et constanter 5-septatis, ad septa non constrictis.

30. **Melanomma Brunaudii** Pass. in Brun. Nouv. Fragm. p. 30. — Pe- 3296

ritheciis sparsis vel subapproximatis, minutis, subglobosis, leniter papillatis, levibus, nitenti-nigris; ascis cylindraceutis, 8-sporis, 70 \approx 6, paraphysibus gracillimis, apice ramosis, eos paululum superantibus obvallatis; sporidiis monostichis oblongo-lanceolatis, utrinque acutis, 2-septatis, olivaceis, 10 \approx 5.

Hab. in basi caulium emortua *Rusci aculeati*, Pessines pr. Saintes Galliæ.

31. **Melanomma tornatum** Sacc. et Paol. Myc. Melac. n. 184, t. II, 3297

f. 4, Berl. Ic. t. 24, f. 1. — Peritheciis innato-erumpentibus, hemisphærico-conoideis, carbonaceis, regularibus, atris, nitidulis, $\frac{3}{4}$ mm. diam., basi subapplanatis, sparsis; ascis subteretibus, breviter et crassiuscule stipitatis, 120-130 \approx 10, octosporis, paraphysibus non visis; sporidiis distichis, fusoideis, curvulis, utrinque acutiusculis, 40-45 \approx 6, 3-septatis, leniter constrictis, brunneis.

Hab. in culmis emortuis (*Bambusæ*?) in Malacca. — Sporidiis ascisque elongatis atque matrice dignoscitur et ad typum *Leptosphæricæ* vergit.

32. **Melanomma parasiticum** Ell. et Ev. Proc. Phil. 1890, p. 240. — 3298

Peritheciis sparsis v. gregariis, superficialibus, ovoideo-hemisphæricis, 110-130 μ . diam., rugosis, nigris, ostiolo papillato, mox pertuso; ascis cylindraceutis, 40-50 \approx 8-10, sessilibus, aparaphysatis; sporidiis conferto-distichis, oblongo-fusoideis, 3-septatis, demum ad septa subconstrictis, 10-12 \approx 3-4, pallide olivaceis.

Hab. in *Diatrype Stigmatæ*, Newfield, New Jersey Amer. bor. — *M. vili* et *M. subsparso* affine.

33. **Melanomma pyriostictum** Cooke in Herb. Kewensi, Grev. XV, 3299

p. 83. — Peritheciis sparsis, globosis, glabris, ostiolo minuto, fusco; sporidiis fusiformibus, triseptatis, fuscis, 25-30 \times 6-7.

Hab. in ligno putri, Twycross Britanniæ.

34. **Melanomma raminolum** Schwein. in Herb. Berk. n. 9698, Cooke 3300
Grev. XV, p. 83. — Peritheciis subcæspitosis, subglobosis, demum collapsis, atris, opacis; ascis clavatis; sporidiis lanceolatis, triseptatis, fuscis, 25 \approx 6.

Hab. in Pino Pineæ in America boreali (?).

35. **Melanomma inspissum** (Schw.) Cooke Grev. XV, p. 83, *Sphæria*
Schwein. — Syll. II, n. 4312. — Sporidia triseptata, fusca, 12-14 μ . long.

36. **Melanomma Commonsii** Ell. et Ev. Proc. Phil. 1890, p. 239, Berl. 3301
Ic. t. 19, f. 4. — Peritheciis gregariis, ovoideo-globosis, asperis, nigris, junioribus minute tomentoso-pubescentibus, 110-125 μ . diam.; ostiolo papilliformi; ascis clavato-cylindræis, 50-55 \times 7-8, copiose filiformi-paraphysatis; sporidiis distichis, fusoideo-oblongis, 3-septatis, ad septa subconstrictis, olivaceo-brunneis, 12-14 \times 3-3.5.

Hab. in Hypoxylo Sassafras, Wilmington, Del. Amer. bor. (COMMONS).

2. *Rhynchosphæria* Sacc., Berl. Ic. I, p. 40.

37. **Melanomma ambiguum** Sacc. in Mout. Ascom. Liège. II, pag. 10, 3302
t. I, f. 57. — Peritheciis gregariis, ligno plerumque immersis vel subsuperficialibus, globulosis, 300-500 μ . diam., in ostiolum perithecium dimidium æquans, interdum abbreviatum, desinentibus; ascis clavatis, modice sed distincte stipitatis, apice late rotundatis, 8-sporis, 70-100 \times 12-15; paraphysibus copiosis obvallatis; sporidiis 1-stichis, oblongis, sæpe curvulis, utrinque obtuse attenuatis, primo 1-septatis, hyalinis, 4-guttatis, dein 3-septatis, fuscis, 18-20 \approx 5-6.

Hab. in ligno putrescente ramisque decorticatis prope Liège Belgii.

3. *Chætomastia* Sacc., Berl. Ic. I, p. 38.

38. **Melanomma fuegianum** Speg. F. Fueg. n. 235. — Peritheciis li- 3303
gno nigrificato sparsis v. aggregatis, subglobosis, 130-150 μ . diam., basi insculptis, atris, primo laxè puberulis, pilis conoideis opacis, acutis, 15 \approx 2 vestitis, per ætatem glabratis, carbonaceis, contextu indistincto, atro, opaco, ostiolo non vel vix papillulato coronatis; ascis cylindræis vel subfusoideo-cylindræis, antice truncato-ro-

tundatis, crassiuscule tunicatis, postice brevissime crasseque attenuato-pedicellatis, $50 \approx 6$, 8-sporis, parce paraphysatis; sporidiis recte vel oblique distichis vel monostichis, elliptico-obovatulis vel subbiconicis, rectis, utrinque acutiusculis, $10-11 \approx 3$, 3-septatis, ad septa leniter constrictis, pallide fuligineis, loculis grosse 1-guttulatis, secundo supero crassiore, duobus extimis pallidioribus.

Hab. in ramis dejectis emortuis Fagi obliquæ? in silvis pr. Ushuvaja Amer. austr.

39. **Melanomma sordidum** Mout. Ascom. Lièg. II, p. 9, t. I, f. 13. — 3304

Peritheciis erumpentibus, dein superficialibus aut intra ligni rimas infossis, sphæroideis, $\frac{1}{2}$ mm., præter ostiolum papillatum hyphis mollibus tortuosis, griseis, continuis, pachydermatis obductis, in senectute glabrescentibus; contextu carnosulo, parenchymatico, rufescente; ascis cylindraceutis, 8-sporis, $100 \approx 7$, paraphysatis; sporidiis monostichis, oblongis, rectis, apicibus rotundato-obtusis, fuligineis, 3-septatis, haud constrictis, $14-17 \approx 5$.

Hab. supra ramum decorticatum in loco udo jacentem prope Liège Belgii.

40. **Melanomma setosum** Mouton in Bull. Soc. R. Bot. Belg. 1886, 3305

p. 153. — Peritheciis sparsis, globosis, contextu membranaceo, sordide brunneo, $\frac{1}{10}-\frac{1}{8}$ mm. diam., ostiolo minuto, obtuso, setulis continuis, atris, $35-50 \approx 4$, laxiuscule vestitis; ascis aparaphysatis (?), e basi paullo ampliata oblongis, sursum rotundatis, deorsum attenuato-stipitatis, $45-52 \approx 12-15$, octosporis; sporidiis inordinatis, distichis, oblongis, rectis, 3-septatis, non vel vix constrictis, sæpius septulo longitudinali divisis, loculis guttulatis, pallide fuligineis, $13-15 \approx 5-6$.

Hab. in ligno putri Populi et Betulæ, Beaufays, Dolembreux in Belgio. — Materia mucosa nuclei jodii ope rubescit. — Var. **minus** Mout. l. c. p. 154: Typo minus; peritheciis $\frac{1}{15}$ mm. diam.; ascis $35-40 \approx 10-12$, setulis $20-25 \approx 3$; sporidiis raro septulo longitudinali divisis, $9-10 \approx 3,5-4,5$. In ligno putrescente Quercus, Beaufays Belgii. — Sec. Berl. Ic. p. 39, species hæc a *M. hispidulo* non satis differt.

41. **Melanomma aculeatum** Mouton in Bull. Soc. R. Bot. Belg. 1886, 3306

p. 154, Berl. Ic. t. 36, f. 6. — *Melanommati setoso* affine, sed setulis rectis, $70-100 \approx 5$, apicem versum sensim attenuatis, ascis $50 \approx 9$, sporidiis fusiformibus, subcurvulis, 5-septatis, virescentibus, $18-20 \approx 4,5$, loculo tertio leviter crassiori distinguendum.

Hab. in ligno putri, Beaufays Belgii.

TREMATOSPHERIA Fuck. — Sacc. Syll. II, p. 115.

1. **Trematosphæria congesta** (Cooke) Berl. et Vogl. Add. Syll. p. 150. 3307
 Ic. t. 33, f. 6, *Psilosphæria congesta* Cooke Austr. Fungi p. 57.
 — Gregaria, conferta, atra; peritheciis subcylindricis, convexis, glabris, poro pertusis; ascis subclavatis; sporidiis fusiformibus, tri-septatis, leniter constrictis, fuligineis, $40 \approx 10$.
Hab. in corticibus, Twofold Bay in Australia.
2. **Tematrosphæria melina** (Berk. et Br.) Sacc. Syll. II, pag. 118, Winter in Hedwigia 1885, pag. 102. — Perithecia primitus fere tota insculpta, $\frac{3}{4}$ mm. diam.; ascis cylindræo-subclavatis, deorsum longe attenuatis, $175-192 \approx 21-26$; sporidia oblique mono-vel subdisticha, oblongo-elliptica, oblonga v. naviculiformia, plerumque utrinque subacutata, sæpe parum inæquilateralia, 3-5-septata ad septa non constricta, fusca, $28-44 \approx 9-13$; paraphyses filiformes Sec. Berl. Ic. p. 38, esset forma lignicola *Clypeosphæriæ Notarisii*.
3. **Trematosphæria buellioides** Rehm Beiträge Augsburg. Pilzfl. p. 78. 3308
 — Peritheciis magnitudinis *Buellie punctatæ*, atris, opacis, in ligni superficie vel inter fibrillas sessilibus, globosis primitus, dein concavis, *Buellie punctatæ* instar, in papillam brevem perforatam protractis; ascis clavatis, $75 \approx 10$, paraphysibus articulatis, superne bifurcatis, cinctis, octosporis; sporidiis distichis elongato-ellipticis, utrinque obtusis, 2-4 locularibus, medio valde constrictis itemque ad septa, flavescentibus, $15 \approx 5$.
Hab. ad lignum pineum fabrefactum prope Augsburg Germaniæ.
4. **Trematosphæria clypeata** Sacc. et Paol. Myc. Malac. n. 105, t. II, 3309
 f. 5, Berl. Ic. t. 24, f. 5. — Peritheciis sparsis, cortice semiinfossis, depresso-clypeatis, coriaceo-membranaceis, atris, nitidulis, minute papillatis, $1-1\frac{1}{2}$ mm. latis; ascis cylindricis, brevissime stipitatis, apice rotundatis, filiformi-paraphysatis, $109-110 \approx 9$, octosporis; sporidiis tereti-oblongis, recte monostichis, 4-guttulatis, mox tenuissime 5-septatis, non constrictis, dilute ochraceis, $18-20 \approx 7-8$, loculis extimis eguttulatis, subhyalinis.
Hab. in corticibus subemortuis arboreis. — Nonnullis notis *T. nucleariam* et *Trem. applanatam* in mentem revocat. A typo generis ostiolo perexiguo differt.
5. **Trematosphæria Carestie** Passer. Diagn. F. N. III, n. 24. — Pe- 3310
 ritheciis superficialibus, sparsis v. parce gregariis, globoso-depressis, rugulosis, atris, minute papillatis v. tantum umbilicatis; ascis

paraphysatis, tubulosis, basi sensim attenuatis, 8-sporis, 125-160 \approx 16; sporidiis monostichis v. subdistichis, ovoideis triseptatis, margine angusto hyalino cinctis, loculis intermediis amplis, melleo-fuscis, guttulatis, extimis minimis, subhyalinis, 20-25 \approx 8-10.

Hab. in cortice vetusto *Betulae* albæ, Riva di Valsesia, Piemonte Ital. bor. (CARESTIA).

6. **Trematosphæria Alaterni** (Fab.) Sacc. *Requienella Alaterni* H. Fab. 3311
Sphér. Vaubl. II, p. 56, f. 33. — Peritheciis solitariis, sparsis, ligno denudato semiinfixis, globosis, ad latera compressis, $\frac{1}{2}$ mm. latis, ostiolo brevi, crassiusculo; ascis paraphysatis, clavatis, breve et crasse stipitatis, 8-sporis, 120-160 \approx 24; sporidiis subdistichis, oblongis utrinque obtusis, plerumque curvulis, 6-9-septatis, ad dissepimenta perparum constrictis, brunneo-luteolis, loculis granuloso-guttulatis, extimis paullo dilutioribus, 40 \approx 12.

Hab. ad ramos enecatos *Rhamni Alaterni*, Vaucuse Galliae. — Teste Berl. Ic. I, p. 37 non satis differt a *T. Britzelmayriana* (Rehm) Sacc. Syll. II, p. 120.

7. **Trematosphæria minuta** Berl. Exc. Frioul p. 11, t. 9, fig. 6. — 3312
Peritheciis sparsis, semiimmersis vel subsuperficialibus, conoideis, ostiolo pertuso præditis, coriacellis, atris, 300 μ . diam., contextu parenchymatico, fuligineo; ascis clavatis, brevissime noduloseque stipitatis, 8-sporis, 50-60 \approx 10-12; paraphysibus paullo longioribus, filiformibus, copiosis cinctis; sporidiis distichis v. basi monostichis, oblongis, sæpe inæquilateralibus, primo 2-ocularibus, ad septum constrictis, dein septulis 2 tenuioribus accedentibus et tum 4-ocularibus guttulatisque, 15-18 \approx 6-7, brunneis.

Hab. in ligno decorticato *Salicis cinereæ*, Osoppo in agro Forojuliensi Ital. bor. — *T. seminudæ* affinis.

8. **Trematosphæria Fraxini** Rich. Cat. Champ. Marn. n. 1337. — 3313
Peritheciis lignum incrustantibus, nigris, sphæricis, ostiolo brevi, conoideis; ascis clavatis, longe stipitatis; paraphysibus simplicibus; sporidiis distichis, oblongo-cylindræis, curvis, pallide brunneis, 5-6-septatis.

Hab. in ramulis emortuis *Fraxini excelsioris*, in silva St.-Amand, Marne Galliae.

9. **Trematosphæria Passerinii** (Rab.) Sacc. *Kalmusia* Rab. Hedw. 3314
1877, p. 18, ex Berl. Ic. I, p. 36, t. XXV, f. 1, *Trematosphæria obtusula* Berl. F. nuov. f. V, n. 12, t. 26, f. 10-11. — Peritheciis sparsis, ligno fere omnino immersis, parte superiori tantum prominulis, globoso-conoideis, sursum obtusis, primo subastomis,

dein ore latiusculo septatis, subinde papilla brevissima, subcylindracea præditis, rugosulis, atris, coriacellis, 250-350 μ . diam.; ascis clavatis, brevè noduloseque stipitatis, sursum rotundatis, rectis v. curvulis; paraphysibus filiformibus cinctis, 135-145 \approx 18-23; sporidiis octonis, sursum distichis, basi oblique monostichis, oblongo-fusoideis, curvulis vel saltem inæquilateris, torulosis, transverse 5-septatis, ad septa constrictis, loculo tertio superiore vix crassiore, 30-32 \approx 10-12, luteo-olivascensibus, protoplasmate minute punctato fæctis.

Hab. in ligno sicco indurato Mori albæ, Vittorio Ital. bor.
— *T. Olearum* affinis sed sporidiis constanter 5-septatis.

10. **Trematosphæria irregularis** H. Fab. Sphær. Vaubl. II, pag. 53, 3315

f. 27. — Peritheciis superficialibus, lignum denudatum et atro-inquinatum incolentibus, densissime acervulatis arcte connatis et poro tenuissime pertusis, $\frac{1}{2}$ - $\frac{2}{3}$ mm. latis; ascis cylindræis, brevè et crasse stipitatis, paraphysibus densis et filiformibus obvallatis, 8-sporis, 150-160 \approx 14-15; sporidiis distichis, fusoideis, rectis vel curvulis, initio hyalinis, medio constrictis et septatis, pluri-magniguttatis, denique senio rufo-fuligineis, 5-septatis, ad septa constrictulis, loculis 4 intermediis 1 magniguttatis, ultimis dilutioribus, fere hyalinis, 50 \approx 10.

Hab. ad basim semiputrem et subterraneam Loniceræ implexæ, Vaucuse Galliæ.

11. **Trematosphæria? lophiostomoides** Speg. F. Fung. 237. — Peritheciis ligno semiinfossis, cortice primo tectis, dein denudatis, e lenticulari globosis, e latere compressis, 200-250 μ . diam., coriaceo-carbonaceis, atris, glabris, contextu indistincto, ostiolo papillulato, crasso, obtuso, compressiusculo, ore rotundo facile deciduo ac foramen latiusculum reliquente donatis; ascis cylindræis vel cylindræo-subclavatis, sursum rotundatis vel subtruncatis, crasse tunicatis, late 1-foveolatis, deorsum crasse attenuato-pedicellatis, 85-95 \approx 10, tunica iodi ope perdilute cærulescente, 8-sporis, paraphysibus filiformibus, simplicibus vel ramosis densiuscule obvallatis; sporidiis elliptico-fusoideis, utrinque obtusiusculis 18-20 \approx 4-5, primo 1-septato-constrictis, loculis grosse 1-guttulatis ac medio subcoarctatis, hyalinis, dein 3-septatis, septo tantum valide constrictis, pallide fuligineis, rectis v. subcurvulis.

Hab. ad ramos dejectos putrescentes Mayteni in silvis pr. Shammacus Fuegia Amer. austr.

12. **Trematosphæria caryophaga** (Schw.) Sacc. *Sphæria* Schw. —

- Syll. II, n. 4332. — Huc teste Cooke Grev. XVIII, p. 60 spectant *Sphæria nuclearia* De Not. — Syll. II, n. 3308, *Sphæria Curtisii* Berk. in Curt. Cat. p. 145 et *Hypoxylon nucitena* B. et C. — Syll. II, n. 3239.
13. **Trematosphæria tornata** (B. et C.) Cooke Grev. XVIII, pag. 60, *Sphæria* B. et C. — Syll. II, n. 3335. — Teste Cooke loc. cit., sporidia sunt lanceolata, 3-septata, brunnea, ad septa constricta, recta vel curvula, $40 \approx 6$.
14. **Trematosphæria lunaria** Currey in }Herb. {Kew. Grevillea XVI, 3317
pag. 92. — Peritheciis sparsis, emergentibus, primum immersis, conicis, basi applanatis, glabris, vertice papillatis; ascis clavatis, 8-sporis; sporidiis subbiseriis, lanceolatis, 3-septatis, fuscis, $25-30 \approx 8$.
Hab. in ramis decorticatis Fraxini in Britannia.
15. **Trematosphæria agnocystis** (B. et Br.) Cooke Grev. XVI, p. 92, *Amphisphæria* Syll. I, p. 722. — Sporidia lanceolata 3-septata, fusca sæpe oculis ultimis hyalinis, $40 \approx 8$.
16. **Trematosphæria fallax** Mouton in Bull. Soc. R. Bot. Belg. 1886, 3318
p. 155. — Peritheciis superficialibus, subglobosis, $\frac{1}{4}$ mm. diam., atris, rugosiusculis, subcarbonaceis, ostiolo conico, obtuso, demum perforato; ascis paraphysatis, ovato-oblongis, apice late rotundatis, basi in pedicellum crassum oblique attenuatis, octosporis, $160-170 \approx 50-55$; sporidiis bi-tristichis, late fusiformibus, inæquilateralibus, 8-septatis, ad septa leniter constrictis, fusco-olivaceis, loculis magnitudine disparibus, extimis pallidioribus.
Hab. in ligno secto adhuc duro, Beaufays in Belgio.
17. **Trematosphæria Beccariana** Pass. in Martelli Flor. Bog. p. 145, 3319
Melanomma Passerinianum Berl. Ic. Fung. I, p. 35, t. XXIII, f. 4. — Peritheciis innato-superficialibus, sparsis vel gregariis globosis, levibus, atris, ostiolo minuto, papillato; ascis oblongo-clavatis, basi attenuato-stipitatis, tandem diffluentibus, circiter $75 \approx 12,5$, octosporis; sporidiis subdistichis, oblongo-fusiformibus, primo uniseptatis, dein tri-raro biseptatis, utrinque obtusis vel subacutis, loculo altero ex intermediis interdum tumidiore, melleo-fuscis, apicibus dilutionibus, $17,5-20 \approx 5-7,5$.
Hab. in corticibus vetustis prope Keren Abyssiniæ (BECCARI).
18. **Trematosphæria hendersonioides** Oud. Contr. Myc. XIII, p. 31, 3320
t. 8, f. 14. — Peritheciis gregariis, globosis, 0,5 mm. lat., nigris; ostiolo paullulum contracto, tandem apertura magna hiantem; ascis tenuibus, paraphysatis; sporidiis, ut videtur, monostichis, fuscescen-

tibus, 3-septatis, 18-21 \approx 4-5, ad septa fortiter constrictis ideoque p. m. torulosis.

Hab. in ligno putri, Rijswijk Hollandiæ (DESTREE). — Sporidia iis *Hendersoniarum* simillima.

CARYOSPORA De Not. — Sacc. Syll. II, p. 122, Berl. Ic. I, t. XVI, fig. 1-2.

1. **Caryospora Putaminum** (Schw.) De Not. — Sacc. Syll. II, p. 122, Winter in Hedwigia 1886, p. 102. — Exemplaria perfecte evoluta, americana sporidia 108-140 \approx 50-65 habent.
2. **Caryospora callicarpa** (Curr.) Nits. et Fuck. — Sacc. Syll. II, p. 123, Winter in Hedwigia 1886, p. 102. — Asci 210-260 \approx 60-70; sporidia 87-108 \approx 30-47.
3. **Caryospora Coffeæ** Pat. Bull. Soc. Myc. 1888, pag. 113, t. XIX, 3321 fig. 6. — Peritheciis subglobosis, nigris, levibus, 0,5-1 mm., apice poro pertusis, basi hyphulis paucis cinctis; contextu minute parenchymatico; ascis clavatis, apice obtusis, membrana crassa, 8-sporis, 200-250 \approx 45-60; paraphysibus filiformibus, numerosis, subgelatinosis, diffusis; sporidiis fusoides, 80 \approx 20, primo hyalinis et uniseptatis, exosporio crasso, dein brunneis, 5-septatis, ad septum medium tantum bene constrictis, utrinque hyalino-mucronatis, intus guttulatis.

Hab. in ramis emortuis Coffeæ, Atures Venezuelæ.

4. **Caryospora Langloisii** Ell. et Ev. Journ. Myc. 1888, p. 67. — Peritheciis gregariis, subsuperficialibus, basi matrice subimmersa, depresso-conicis, circ. 1 mm. diam., fusco-nigris; ostiolo distincto, papilliformi; ascis late oblongis vel anguste ellipsoideis, subsessilibus, 120-140 \approx 40-45, 8-sporis, copiose filiformi-paraphysatis; sporidiis confertis, subamygdaliformibus vel acute ellipsoideis, 1-septatis ad septum constrictis, utrinque acuminatis, primo flavido-hyalinis, mox atro-brunneis, 35-45 \approx 16-20.

Hab. in culmis vetustis Arundinariæ, Louisiana Americæ bor. (LANGLOIS).

STUARTELLA Fabre — Syll. II, p. 123.

1. **Stuartella Carlylei** Cooke et Mass. Grev. XIX, p. 86. — Peritheciis gregariis, majusculis, carbonaceis, globosis, superficialibus, $\frac{3}{4}$ mm. diam., nigris, tuberculatis (ut in *Bertia moriformi*), apice pertusis non papillatis; ascis clavato-cylindræis; sporidiis fusoides, 5-septatis, haud constrictis, brunneis, 40-50 \approx 8-10.

Hab. in ligno decorticato, Carlisle Britannicæ (Doct. CARLYLE).

2. **Stuartella sulcata** (Ell.) Sacc. *Melanomma sulcatum* (Ell.) Berl. 3324
et Vogl. Add. Syll. p. 150, *Sphæria sulcata* Ell. in Torr. bot. Club.
1883, pag. 53. — Superficiale, dense gregarium; peritheciis ovatis
330 μ . diam., atris, non expolitis; ostioliis tuberculiformibus, latis,
poro amplo, sæpe circulari pertusis; ascis clavato-cylindraceutis, 130
 \approx 22; paraphysibus copiosis; sporidiis distichis, late naviculari-
fusiformibus, septatis, primo luteis dein brunneis, 35-45 \approx 11-15.

Hab. in caulibus emortuis Artemisiæ, Utah in America boreali
(HARKNESS).

3. **Stuartella Briardiana** Sacc. *Melanomma Briardianum* Sacc. Fun- 3325
gi Gallici Ser. V, n. 2213. — Peritheciis gregariis sæpeque 2-4
arcte confluentibus, globoso-conicis, vix $\frac{1}{2}$ mm. diam., breve, sub-
inde obsolete papillatis, durissimis, atris extus subplicatis; ascis
tereti-clavatis, copiose paraphysatis, apice rotundatis, 160 \approx 16, octo-
sporis; sporidiis oblique monostichis, fusoides, curvulis utrinque
attenuatis, 36-40 \approx 7-8, 3-septatis, ad septum medium constrictis,
loculis mediis sæpe inflatulis 1 guttatisque, olivaceis, extimis paullo
pallidioribus.

Hab. in ramis decorticatis lignoque corrupto Salicis et Ri-
bis, pr. Troyes Gallicæ (BRIARD). — A *St. formosa*, quacum jungit
cl. Berlese, peritheciis et sporidiis multo minoribus differre videtur.

SPORORMIA De Not. — Sacc. Syll. II, p. 123. Cfr. Berl. Ic. I, p. 41.

1. **Sporormia fuegiana** Speg. F. Fung. n. 242. — Peritheciis sparsis, 3326
immersis, globulosis, 200-250 μ . diam., atris, glabris, coriacellis,
contextu opaco indistincto, ostiolo papillulato non v. vix exserto,
areola pallescente cincto, donatis; ascis cylindraceutis, antice obtuse
rotundatis, postice abrupte coarctatis p. sp. 120-130 \approx 25, ac in
pedicellum breve gracile, 10-12 \approx 3-5, productis, 8-sporis, paraphy-
sibus parvis simplicibus obvallatis; sporidiis recte v. oblique disti-
chis, cylindraceutis, 50-55 \approx 10-12, tetrameris, articulis nunquam
secedentibus, opace fuliginis, mucos destitutis.

Hab. in fimo Auchenicæ Guanaci in silvis pr. Slogget bay
Fuegia Amer. austr. — Species *Sp. leptosphærioidi* satis affinis
sed certe distincta ac mox dignoscenda.

2. **Sporormia patagonica** Speg. F. Pat. n. 140. — Peritheciis sparsis, 3327
subsuperficialibus, subglobosis, 200-250 μ . diam., siccis subcupulato-
collapsis, ostiolo minuto vix papillulato donatis, membranaceis, con-
textu parenchymatico, polyhedrico, atro-fuligineo; ascis cylindraceuto-

subclavatis, antice rotundatis, tunica non v. vix incrassatis, postice in stipitem brevem ac crassiusculum cuneato-attenuatis, $95-110 \approx 20$, aparaphysatis, 8-sporis; sporidiis recte v. oblique distichis, cylindræis non v. vix curvulis, utrinque acutiuscule obtusatis, $35-39 \approx 6-7,5$, facillime in articulos centrales, $11-12 \mu$. long. secedentibus, strato mucoso destitutis, opace fuligineis.

Hab. in fimo vetusto putrescente Aucheniæ Guanaci nec non Rheæ Darwinii pr. Mount Entrance ad ostia Rio S. Cruz Amer. austr.

3. **Sporormia obliquisepta** Speg. F. Pat. n. 138. — Peritheciis spar- 3328
sis, lenticulari-globosis, $200-250 \mu$. diam., ostiolo minuto, papillato instructis, atris, glabris, membranaceis, contextu atro-fuligineo; ascis clavatis, antice rotundatis crasseque tunicatis, postice in stipitem modice attenuatis, $115-130 \approx 15-16$, paraphysibus densis filiformibus, rarius torulosis obvallatis, 8-sporis; sporidiis cylindræis, leniter curvulis, $40 \approx 7$, tetrameris ob septa obliqua, loculis subrhomboideis, primitus strato mucoso hyalino vestitis, dein nudis, mox in articulos secedentibus.

Hab. in fimo equino vetusto in valleculis uliginosis pr. Misioneros secus Rio S. Cruz Amer. austr. — Species plurimis affinis, sed septis obliquis loculisque rhombohedricis mox dignoscenda!

4. **Sporormia australis** Speg. F. Pat. n. 141. — Peritheciis minutis, e 3329
globoso conoideis, $150-180 \mu$. diam., sparsis, semiimmersis, atris, glabris, ostiolo vix acutato et perspicuo coronatis; ascis cylindræis v. cylindræo-obclavatis, $75-80 \approx 20$, antice obtusissime rotundatis crassiusculeque tunicatis, postice abrupte in stipitem brevissimum ac nodulosum productis, paraphysibus paucis, filiformibus, valde brevioribus obvallatis, 8-sporis; sporidiis cylindræis, $40-42 \approx 8$, utrinque obtusiusculis, tetrameris, loculis ocellatis, centralibus sphæroideo-cuboideis, strato mucoso, crassissimo, hyalino obvolutis.

Hab. in fimo Caviæ australis prope Misioneros secus Rio S. Cruz, Amer. austr.

5. **Sporormia elegans** Zukal Neue Ascom. p. 4, t. I, f. 4. — Perithe- 3330
ciis solitariis globulosis vel subovatis, semiimmersis, atris, sed sporidiis eructatis, pallidis, glabris, $100-300 \mu$. alt., ostiolo papillato paullo pallidiore; ascis e piriformi saccatis, raro subglobosis, breve stipitatis, $32 \approx 23$ circ.; sporidiis octonis, parallele stipatis, 3-septatis, rectis curvulisve, strato mucoso obductis, $29 \approx 6,5$, brunneis, articulis rotundatis, subæqualibus, $8 \approx 6,5$.

Hab. in fimo equino (decocto), Wien Austriæ. — *Habitus Sp. minimæ* sed fructificatio diversa.

6. **Sporormia evallata** Pass. Fung. nuovi IV, pag. 5. — Peritheciis 3331
sparsis v. approximatis, primo immersis, ostiolo acuto emergente,
tandem superficialibus, ostiolo elapso, globosis 130 μ . diam.; ascis
subclavatis, basi angustatis, sessilibus, aparaphysatis, 8-sporis, 60-75
 \approx 12-15; sporidiis subtristichis, 4-ocularibus, fuscis, 25-27,5 \approx 4-5.

Hab. in stercore vaccino in alveo flum. Baganza ad Vigheffio prope Parma Italiæ. — A *Sp. minima* Auersersw. paraphysum defectu præ ceteris distinguenda; sed sec. Berl. Ic. I, p. 41, discrimen verum non adest.

7. **Sporormia Brassicæ** Grove in Journ. of Bot. 1886, p. 132, t, 266, 3332
f. 1. — Peritheciis gregariis, magnis, usque ad $\frac{1}{3}$ mm. d., globosis,
atris, levibus, nitidis, ostiolo minute papillato, obsolete, inter fibras
nidulantibus, demum pæne superficialibus; ascis subfasciculatis, apa-
raphysatis, clavatis, 50-60 \approx 15-18 μ . (parte sporif.), infra in stipi-
tem filiformem, ascum æquantem v. paullo breviorum, 2-3 μ . crass.
attenuatis, apice rotundatis; sporidiis tristichis, infra monostichis,
linearibus, tetrameris, olivaceis, dein fuscis, 25-35 \approx 4-5, loculis duo-
bus interioribus oblongis, truncatis, 5-7 μ . longis, interioribus sub-
conicis v. oblongis, 8-10 μ . long., non facile secedentibus.

Hab. in caulibus Brassicæ oleraceæ putrescentibus, Streetly pr. Birmingham Brit. — Ascii et perithecia iis *S. octomere* similia, at illi cum sporidiis fere duplo minores.

8. **Sporormia cannabina** Karst. in Hedw. 1889, p. 367. — Peritheciis 3333
plus minus gregariis, immersis v. semiimmersis, subsphæroideis, ostio-
lo conoideo vel papilliformi, levibus, atris, contextu membranaceo,
parenchymatico, atro-fuligineo, vix 200 μ . lat.; ascis cylindræo-
clavatis, brevissime stipitatis, 140-160 \approx 17-19; sporidiis octonis,
di- vel tristichis, curvulis, olivaceis v. demum fuligineo-olivaceis,
3-septatis, circ. 42 μ . long., loculis ultimis conoideis, 11-12 \approx 7-8,
mediis subcuboideis 10-11 \approx 6-7; paraphysibus numerosis, 1-2 μ . cr.

Hab. in fune cannabino vetusto pr. Mustiala in Fennia.

9. **Sporormia pentamera** Oud. Aanw. IX-X, p. 74. — Peritheciis.... 3334
non descriptis; sporidiis tristichis (?), pentameris, 80 \approx 16-17; arti-
culis duobus ultimis obscure conicis, 18-19 μ . longis, tribus inter-
mediis vero 11-12 μ . longis, omnibus fuscis, mucò obductis; ascis
absque pedicello, 190 \approx 38, itaque lanceolatis, obtusis.

Hab. in fimo Cuniculorum in Hollandia (VAN LEDDEN HUL-
SEBOSCH).

10. **Sporormia affinis** Sacc. Bomn. et Rouss. in Bull. Soc. R. Bot. 3335

Belg. 1886, p. 171. — Peritheciis nigris, glabris, ovoideis, semi-immersis, 300 μ . diam., ostiolo brevi, recto, conoideo donatis; ascis cylindraceutis vel leniter claviformibus, 210-246 \times 30-36; sporidiis 8-cellularibus, sæpe curvatis, mucositate late obvolutis, 71-90 \times 12-16 sine mucositate, 96 \times 27-30 cum mucositate, articulis facile dilabentibus, mediis parallelipipedo-rotundatis, 9-15 \times 12-15, extremis rotundatis, 12 \times 10.

Hab. in fimo leporino, Genck Belgii. — Affinis *S. variabili* et *S. commutatae*.

11. **Sporormia Marchaliana** Mouton in Bull. Soc. R. Bot. Belg. 1886, 3336

p. 155. — Peritheciis gregariis, globosis, $\frac{1}{2}$ - $\frac{2}{3}$ mm. diam., immersis vel protuberantibus, atris, ostiolo papilliformi, crasso et brevi, contextu coriaceo; ascis anguste clavatis, stipitatis, octosporis, p. sp. 170-200 \times 20-24; paraphysibus filiformibus, ramulosis; sporidiis superne 1-3-stichis, inferne monostichis, cylindraceuto-fusiformibus, utrinque obtuse rotundatis, leniter curvatis, fuscis, 12-14-cellularibus, articulis facile secedentibus, intermediis latioribus quam longis, strato mucoso, hyalino obvolutis, 60-76 \times 8-9.

Hab. in fimo Cuniculorum in dunis prope Heyst Belgii.

12. **Sporormia antarctica** Speg. F. Fueg. n. 246. — Peritheciis sparsis 3337

v. laxe gregariis, rarius hinc inde 3-5-aggregatis, immersis vel semiexsertis, e conoideo globosis, 350-450 μ . diam., atris, glabris, contextu pellucido, parenchymatico, fuligineo, ostiolo papillulato crasso obtuso coronatis; ascis cylindraceuto-clavatis, antice truncato-rotundatis, postice breviter crasseque attenuato-pedicellatis, 140-150 \times 25-30, 8-sporis, paraphysibus paucis sæpius mox evanescentibus immixtis; sporidiis di-tri-stichis, utrinque obtusiusculis, longitudine variis 45-65 \times 5-6, 11-13-meris, articulis cuboideo-lenticularibus, facillime secedentibus, quarto v. quinto supero aliis crassiore, 4-5 \times 5-6, extremo supero hemisphærico, extremo infero conico 4 \times 3, opace fuligineis, strato mucoso, hyalino, plus minus evoluto obvolutis.

Hab. in fimo Berniclae antarcticae in maritimis arenosis pr. Ushuvaia Fuegia Amer. austr.

13. **Sporormia octolocolata** H. Fab. Sphér. Vaubl. II, pag. 52. — 3338

Peritheciis immersis, ostiolo minuto conoideo instructis; ascis cylindraceutis, breviter stipitatis, 8-sporis, 160-165 \times 21; sporidiis subdi-stichis, octolocolatis, brunneis, 45 \times 7.

Hab. ad fimum ovinum vetustum, Vaocluse Galliae.

14. **Sporormia immersa** Zukal Ein. neu. Pilze Myc. Bakt. p. 8, t. XV, 3339

fig. 1. — Peritheciis globosis, 500-600 μ . altis, coriaceis, nigris, ostiolo distincte papillæformi prominulis; ascis acuminatis, anguste clavatis, longe pedunculatis, octosporis, 240-260 \approx 18-24, p. sp., curvis vel sinuosis; sporidiis bi-tristichis, subimbricatis, 13-15-locularibus, brunneo-nigris, strato mucoso obvolutis, 70-90 \approx 9-11, fusoides, ad septa constrictis.

Hab. in fimo Cuniculorum, Wien Austriæ.

GIBBERIDEA Fuck. — Syll. II, p. 132.

1. **Gibberidea plagia** (Cooke et Masee) Sacc. *Melanomma plagia* 3349
Cooke et Mass. in Grev. XVII, p. 8. — Peritheciis dense confertis, greges oblongos, erumpentes, demum subsuperficiales, in cæspites 5-7,5 cm. long. confluentes efformantibus, globosis, e mutua pressione compressis et deformibus, nigris, nitentibus, levibus; ostiolo minuto; ascis cylindræis; sporidiis 1-2-stichis, lanceolatis, 3-septatis, pallide brunneis, 40-45 \approx 10-12.

Hab. in ramis vivis Cassiniæ aculeatæ, Port Phillip Australiæ (FRENCH). — Habitus *Plowrightiæ morbosæ*.

PSEUDOVALSA Ces. et De Not. — Sacc. Syll. II, p. 135. Cfr. Berl. Ic. I, p. 46.

1. **Pseudovalsa tubulosa** (B. et C.) Sacc. Syll. II, pag. 137. — Huc teste Cooke (Grevillea XIV, p. 48) ducenda est *Calospora tribulosa* (B. et C.) Sacc. Syll. II, p. 232.
2. **Pseudovalsa fusca** Buckn. Fung. Brist. IX, p. 46, t. V, f. 1. — 3341
Pustulis pusillis, numerosis, erumpentibus; peritheciis globosis, fibrillosis, stromate brunneolo, orbiculari immersis; collis elongatis, gracilibus, cylindræis, convergentibus; ostiolis supra discum brunneolum sparsis; ascis clavatis, breviter stipitatis, 65-100 \approx 10; paraphysibus copiosis, filiformibus; sporidiis oblongis, 3-septatis, brunneis, 17 \approx 5.

Hab. in ramis Aceris Pseudoplatani prope Bristol Britannia.

3. **Pseudovalsa Fairmani** E. et E. in Fairm. Contr. Myc. West. N. 3342
Y. p. 49, t. III, f. 1-3, 10-11. — Stromatibus convexo-pulvinatis, 1-1,5 mm. diam., e corticis interioris substantia submutata formati, superficie tantum subcarbonaceo-nigrificata, linea non cinctis, epidermide ostiolis validis, brevibus, cylindræis vel conicis, apice levibus et 4-sulcatis, perforata, tectis; peritheciis in quoque stromate 4-8, confertis, ovoideis vel e mutua pressione subangulosis,

circ. $\frac{1}{2}$ mm. diam., intus albido-ceraceis; ascis p. sp. 75-85 \approx 20, plerumque 6-sporis; sporidiis oblongo-cylindræis, 3- v. rarissime 5-septatis, ad septa subconstrictis, flavidis, 30-40 \approx 5-7.

Hab. in ligno Lyndonville, New York Amer. bor. — Adsunt in stromatibus junioribus sporulæ pycnidicæ, basidiis subæquilongæ.

4. **Pseudovalsa stylospora** Ell. et Ev. Proc. Phil. 1890, p. 223. — 3343

Stromate corticali, convexo, 2-3 mm. diam., epidermide tecto; peritheciis circinatis, in quovis stromate 4-8, globosis, $\frac{3}{4}$ mm. diam., siccis collabentibus, supra in colla brevia ac ostiola minuta, globosa abeuntibus, subseriatim dispositis, per corticem minute fissum erumpentibus; ascis 80-85 \approx 15 p. sp.; sporidiis distichis, oblongo-ellipsoideis, initio hyalinis et granulosis, dein brunneis, 2-septatis, ad septa subconstrictis, 25-30 \approx 10-14; pycnidiis centralibus, stylosporis 40-55 \approx 10-12, basidiis brevibus suffultis.

Hab. in cortice emortuo Aceris spicati, London Canada Amer. bor. (J. DEARNESS).

THYRIDARIA Sacc. Syll. II, p. 140. — Cfr. Berl. Ic. I, p. 45.

1. **Thyridaria texensis** (E. et Ev.) Berl. et Vogl. Add. Syll. p. 164, 3344

Diatrype texensis E. et Ev. in Journ. of Myc. 1886, p. 39. — Stromate subcarbonaceo, atro, suborbiculari, 2-4. mm. crasso, primum plano vel sursum subconcavo, superficie corticis interioris insidente atque epidermidem perforante; peritheciis coriaceis, contextu crasse parenchymatico, globosis vel mutua pressione subangularibus, 6-20 in quoque stromate, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., orificio acutiusculo sed indistincto; ascis clavato-cylindræis, circiter 75 \approx 12, copiose paraphysatis; sporidiis subdistichis, primo luteo-brunneis uniseptatisque, dein obscure brunneis, 3-septatis, ovatis vel oblongo-ellipsoideis, 15-20 \approx 6-7, ad septa vix constrictis, loculis extremis subhyalinis.

Hab. in cortice arboris (Tiliæ?), Houston, Texas Amer. bor.

2. **Thyridaria Comptoniæ** (Ell. et Ev.) Berl. et Vogl. Add. Syll. p. 417, 3345

Ic. Fung. I, t. 33, f. 6, *Diatrype Comptoniæ* Ell. et Ev. in Journ. of Myc. 1886, pag. 89. — Stromate erumpente, subtuberculiformi, minuto, 1-3 mm. diam., subhemisphærico v. elongato, atro, ad basin albescente; peritheciis in stromatibus minoribus singulis et in majoribus, 2-12, tunica subtili, ovoideis v. mutua pressione subangularibus, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., sursum in collum breve, cylindraceum vel subconoideum vix prominulum contractis; ascis clavatis,

75-85 μ . longis, basi stipitatis, paraphysibus copiosis, cinctis, octosporis; sporidiis subfusoides, luteo-brunneis, 3-septatis, leniter curvulis, 12-15 \approx 4-5.

Hab. in caulibus emortuis, partim decorticatis *Comptoniæ asplenifoliæ*, Newfield Amer. bor.

3. **Thyridaria eutypoides** E. et E. Journ. Myc. 1888, p. 78 (ex errore 66) Berl. Ic. I, t. 34, f. 1. — Peritheciis minutis, 110-120 μ . diam., immersis, per corticis substantiam, subcarbonaceo-nigrificatam uniformiter sparsis, sed sæpius prope superficiem valseo-gregariis; ostiolis breviter cylindraceutis, apice subtruncato leniterque incrassato pertusis, numerosissimis, superficiem sub lente pubescentem efficientibus; ascis circ. 35 \approx 7 p. sp. vel stipite brevi incluso, 45 μ . long., paraphysibus copiosis, filiformibus obvallatis; sporidiis distichis, oblongis vel clavato-oblongis, 3-septatis, ad septa subconstrictis, olivaceo-brunneis, subincurvis, utrinque subobtusis, 10-12 \approx 2,5-3.

Hab. in cortice *Meliæ dejectæ*, Louisiana Americæ borealis (LANGLOIS).

4. **Thyridaria Fraxini** Ell. et Ev. Proc. Phil. 1890, p. 223, Berl. Ic. I, t. 34, f. 3. — Peritheciis dense sparsis, cortice intus æqualiter nigrificato immersis, globosis, $\frac{1}{2}$ - $\frac{3}{4}$ mm., coriaceis, pariete crasso, intus nigris et nitentibus, supra in collum breve ac ostiolum erumpens, subhemisphærico-tuberculiforme, plus minus radiato-sulcatum abeuntibus; ascis basi gracili præditis, 90-100 \approx 15-20, polysporis (?); paraphysibus obscuris; sporidiis distichis, vermicularibus, brunneis, 3-6-septatis, 20-26 \approx 4, septis, centrali excepto, parum distinctis; spermogoniis *Cytosporinam Fraxini* E. et E. sistentibus; sporulis filiformibus, pluris 40 μ . long.

Hab. in cortice emortuo *Fraxini*, London Canada Amer. bor. — Sec. Berlese loc. cit., asci sunt octospori.

KALMUSIA Niessl. — Syll. II, p. 142. — Cfr. Berl. Ic. I, p. 44.

1. **Kalmusia rubro-nigra** Cooke Trans. Roy. Soc. Edin. 1887, p. 391. — Sparsa; peritheciis in ligno subimmersis, demum supra nudatis, primitus pulvere rubro conspersis, dein nudis, atris, nitidis, ostiolo brevi; ascis cylindraceutis; sporidiis uniseriatis, ellipticis, tri-septatis, fuscis, 22 \approx 8.

Hab. in ligno in ins. Socotra Afr. orient.

2. **Kalmusia Fici** Pass. Diagn. Fung. nuovi III, n. 25. — Peritheciis subgregariis, stromate corticem dealbante immersis, parvulis, pu-

stuliformibus, atris, ostiolo obtusiusculo vix emerso, nucleo albo; ascis clavatis, copiose paraphysatis, basi longe attenuato-stipitatis 8-sporis, 60-70 \times 8-10; sporidiis distichis, elongatis, rectis, apicibus obtusis, triseptatis, ad septa leniter constrictis, luteo-fuscis, 15 \times 5.

Hab. in ramis siccis Fici Caricæ, Parma Italiæ.

3. **Kalmusia eutypa** (Fr. p. p. De Not.) Sacc. *Sphæria eutypa* Fr. 3350
S. M. II, 478 p. p. et Scler. Suec. n. 448. — Peritheciis sparsis, immersis, globosis, ostiolis in macula nigra prominulis minutis convexis, demum umbilicatis; ascis; sporidiis (teste de Not.) ovoideo-oblongis, medio nonnihil contractis, plurilocularibus, badiis.

Hab. in ramis emortuis Populi, Fraxini etc. in Suecia et Italia.

4. **Kalmusia munda** Pass. Diagn. Fung. nuovi, IV, p. 5, *Melanomma* 3351
Berl. Ic. t. 25, f. 2. — Peritheciis ligno immutato immersis, ostiolo globuloso, atro-nitido, in tuberculum erumpente; ascis tubuloso-subclavatis, paraphysibus filiformibus superantibus, guttulatis, obvallatis, 165 \times 20-25, 8-sporis; sporidiis superne distichis v. oblique monostichis, crasse fusiformibus, primo hyalinis, didymis, varie guttulatis, medio constrictis, dein 5-septatis, flavo-fuscis, loculis guttulatis, altero ex intermediis latiore, circulo hyalino tenui obvolutis, tandem intense fuscis, septis vix perspicuis, 30-40 \times 10-12,5.

Hab. in ligno querneo pr. Parma Italiæ.

5. **Kalmusia Abietis** Pass. in Brun. Mat. myc. Saint. pag. 18. — Pe- 3352
ritheciis ligno v. cortice immersis, sparsis v. approximatis, globosis vel subglobosis, nigris; ostiolo nigro, tuberculiformi-erumpente; ascis cylindraceutis, mox diffluentibus, 75-125 \times 7; sporidiis 1-stichis, elongato-subfusoides, rectis vel subcurvis, vix 3-septatis v. protoplasmate 4-partito, 15-20 \times 5, fuligineis.

Hab. in ramis dejectis Abietis excelsæ, Saintes Galliæ.

TITANIA Berl. Ic. fung. I, p. 49 (1891), (Etym. *Titan* ob sporidia gigantea). — Perithecia 2-4 stromatice acervata, epidermide tecta prominula ostiolisque emergentibus. Asci monospori. Sporidia magna, tereti-fusoidea, transverse septata, colorata.

1. **Titania Berkeleyi** Berl. loc. cit. tab. XXXVII, f. 1, *Pseudovalsa Titan* (Berk.) Sacc. Syll. II, p. 135, *Diatrype Titan* Berk. et Br. N. A. Fungi n. 857. — Asci 180-200 \times 28-32; sporidia 90-110 \times 23-25.

Pyrenopeziza

MELOGRAMMA Tul. — Sacc. Syll. II, p. 144. — Cfr. Berl. Ic. Fung. I, p. 50.

1. **Melogramma Meliæ** Curtis in Herb. (nec Schweinitz) Cooke in Grevillea XIII, p. 103. — Acervulis erumpentibus, atris, subdiscoideis vel oblongis; peritheciis prominentibus, demum subliberatis, rugosis, apice applanato; ascis clavatis, majusculis octosporis; sporidiis sublanceolatis, triseptatis, nec constrictis, rarius quinque-septatis, 38-42 \approx 10, fuscis. 3353

Hab. in ramis Meliæ in Amer. bor.

2. **Melogramma? platyroum** (Berk. et Curt.) Cooke in Grevillea XIII, pag. 103, *Hypoxylon platyroum* Berk. in Herb. — Peritheciis botryoideo-aggregatis, erumpentibus, subeffusis, rarius liberis, pulvere griseo subtus conspersis; ascis clavatis, octosporis; sporidiis fusiformibus, triseptatis, hyalinis, 20-22 \approx 4. 3354

Hab. in ligno denudato in Pennsylvania Americæ borealis. — Habitus sec. Berl. l. c. potius *Lasiosphæriæ*, certe non *Melogramma*.

Sect. 7. Hyalophragmiæ.

MASSARINA Sacc. Syll. II, p. 153.

1. **Massarina eburnea** (Tul.) Sacc. Syll. II, pag. 153. — Var. **Salicis** Karst. in Hedw. 1884, n. 6, p. 1 et Rev. atque Synop. Ascom. fenn. p. 40. — Peritheciis sparsis vel subgregariis, initio cortice innatis, dein emergentibus vel erumpentibus, sphæroideis, papilla obtusa, poro ovali pertusa, atris, 3 mm. lat. vel paullo ultra; ascis cylindræis, breviter stipitatis, 185 \approx 15; sporidiis monostichis v. subdistichis, fusoideo-oblongatis, eguttulatis, chlorino-hyalinis, circulo gelatinoso, 2 μ . crasso circumdatis, 30-33 \approx 9 (sine muco). 3355

Hab. in latere inferiore corticis Salicis cinereæ ad Muustiala Fenniæ. — A typo recedit peritheciis sparsis, exacte sphæroideis, non annulato-impressis sporidiisque vulgo rectis.

2. **Massarina Spartii** Passer. Diagn. F. N. III, n. 26. — Peritheciis subcutaneis, depressis, fuscis, ostiolo obsoleto, contextu celluloso, ochraceo-fusco; ascis paraphysatis, cylindricis, basi abrupte stipitatis, stipite tenui incurvo, 4?-8-sporis, 80-100 \approx 15; sporidiis uniserialibus, ellipticis vel subovatis, didymis, castaneo-fuscis, halone mucilaginoso circumdatis, episporio crasso, 18-22,5 \approx 10-12 (halone excluso). 3356

Hab. in ramulis *Spartii scoparii* pr. S. Maria del Taro in agro parmensi Ital. bor. — Si sporidia constanter castaneo-fusca an potius *Massariæ* species?

3. **Massarina gigantospora** Rehm in Voss. Mat. Pilz. Krains, p. 216, 3357 f. 5. — Peritheciis sparsis, in maculis dealbatis immersis, sphæroideis, atris, haud papillatis, ostiolo vix visibili pertusis, siccis apice collabentibus, 300 μ . diam; contextu e cellulis magnis, fuscis composito; ascis ovoideis, crassis, 120 \approx 75; paraphysibus ramosis, intricatis, circ. 2 μ . cr.; sporidiis octonis, irregulariter dispositis, oblongis v. subfusoideis, obtusis, rectis, hyalinis, 5-ocularibus, superiore parte 24 μ . long. et 2-oculari, loculo secundo plerumque sublato, parte inferiore 3-oculari, loculis omnibus guttatis, sporidiis totis 60-66 \approx 8, gelatina circ. 9 μ . cr. obvolutis.

Hab. in caulibus siccis *Genistæ sagittalis* pr. Adelsberg Carniolæ. — *M. penicillatæ* affinis sed sporidiis 5-septatis et majoribus.

4. **Massarina Dryadis** Rost. Fungi Groenl. pag. 560. — Peritheciis 3358 epiphyllis, sparsis, sphæroideo-depressis, nigris; ostiolo niveo; ascis crasse cylindræis, 90-115 \approx 32-38, brevissime stipitatis; sporidiis octonis, distichis, oblongis, 3-septatis, ad septa præcipue ad medium constrictis, hyalinis, strato mucoso, crassiusculo obductis.

Hab. in foliis emortuis *Dryadis octopetalæ* in Groenlandia.

5. **Massarina micacea** (Kunze) Sacc. *Mass. micacea* Kunze F. select. 3359 n. 95, Wint. Pilze II, p. 542. — Peritheciis gregariis, peridermio paullo obscurato diu tectis, subglobosis, leniter depressis nigris, 300 μ . diam., ostiolo perexiguo erumpente; ascis clavatis, subsessilibus, octosporis, 50-60 \approx 14, serius elongatis, et deorsum tenuatis; sporidiis fusoideis, inæquilateris, 3-septatis, utrinque tenuato-rotundatis, loculo secundo leniter crassiore, hyalinis, 21-23 \approx 4,5; paraphysibus filiformibus copiosis.

Hab. in ramis emortuis *Tiliæ platyphyllæ* in Germania.

METASPHÆRIA Sacc. Syll. II, p. 156.

I. In Dicotyledoneis herbaceis.

1. **Metasphæria rothomagensis** Roum. in Rev. Myc. 1885, pag. 23, 3360 tab. 4, fig. 6. — Peritheciis sparsis, minutis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam. fuligineo-nigris, epidermide tectis, demum erumpentibus, rotundatis, conoideis, ostiolo latiusculo, vix papillato; ascis clavato-cylindræis, breviter stipitatis, paraphysibus filiformibus, tortuosis, coal-

tis obvallatis, 95-100 \approx 15 octosporis; sporidiis oblongis utrinque acutis vel obtusis, leviter curvulis, 28 \approx 6, triseptatis, hyalinis.

Hab. in caulibus Lythri Salicariorum, Seine Inf. Galliarum.

2. **Metasphæria sphærelloides** Passer. Diagn. F. N. III, n. 27. — Peri- 3361
 ritheciis crebre sparsis, punctiformibus, tectis; ascis clavatis tenuissime stipitatis, 8-sporis, aparaphysatis, 42-50 \approx 5-7,5; sporidiis biseriatis, elongato-fusiformibus, in asci lumine flavidis, ejectis subhyalinis, triseptatis, loculis subinde guttulatis, altero ex intermediis tumidulo, 22,5 \approx 2,5-3.

Hab. in ramis Clematidis Vitalbæ, sociis *Sphærellâ vitalbinâ* et *Ophiobolo Clematidis* ad Sala, prov. Parmæ Italiæ bor.

3. **Metasphæria Aquilegiæ** Bres. in Rev. myc. 1890, p. 185. — Peri- 3362
 theciis dense gregariis, minutis, 100-130 μ . diam., epidermide tectis, conoideo-depressis v. demum complanato-collapsis, minutissime ostiolatis; ascis clavatis, 50-70 \approx 8-9; sporidiis octonis, distichis, fusoides, sæpe curvulis, 3-raro 4-septatis, 15-17 \approx 3-3,5, guttulatis.

Hab. in caulibus Aquilegiæ vulgaris pr. Leutschau Hungariæ (V. GRESCHIK). — Differt a *M. sepincola* peritheciis cupularibus, ascis minoribus, forma et magnitudine sporidiorum.

4. **Metasphæria Annæ** Oudem. Contr. à la Flore myc. de Nowaja 3363
 Semlja p. 12, t. I, f. 9. — Peritheciis sparsis, minutis 200 μ . d., depresso globosis, ostiolo vix papillato, laxe parenchymatosis, atris, glabris; ascis paucis, ovato-oblongis, inæquilateris, sessilibus, 30 \approx 50, 8-sporis, membrana (saltem in statu non plene maturo) tumescente; sporidiis, ut videtur, tristichis, fusoides, rectis, utrinque obtusis, hyalinis, ut plurimum 6-septatis, 60 \approx 14 (absque strato mucilaginoso, 3-4 μ . crasso, sporidia obducente), loculis 7 quoad capacitatem a se invicem valde diversis (ut patet e numeris sequentibus, quibus eorum altitudo indicatur, 6, μ ., 7 μ ., 9 $\frac{1}{2}$ μ ., 11 $\frac{2}{3}$ μ ., 11 $\frac{2}{3}$ μ ., 9 $\frac{1}{2}$ μ ., 7 μ .).

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

5. **Metasphæria Trollii** Karst. in Hedw. 1884, n. 6, p. 3 et Rev. at- 3364
 que Synop. Ascom. fenn. p. 43. — Peritheciis in greges minutos sociatis, primitus epidermide tectis, dein denudatis, applanatis, orbicularibus v. ellipsoideis, demum poro pertusis, atris 0,3-0,4 mm. lat; sporidiis octonis, distichis, cylindræis, rectis, 4-guttulatis, hyalinis, 11-15 \approx 1,5-2.

Hab. ad caules Trollii europæi pr. Plenji maris glacialis.

6. **Metasphæria xerophila** Sacc. et Malbr. Fung. Gall. ser. V, p. 2166. 3365

— Peritheciis sparsis, minutis, epidermide initio tectis, depresso-globulosis, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam., breviuscule papillatis, nigris; ascis tereti-clavulatis, breve stipitatis, filiformi-paraphysatis, 95-100 \approx 14, octosporis; sporidiis oblique monostichis v. distichis, oblongis, deorsum acutioribus, lenissime curvis, 27 \approx 5, 3-septatis, hyalinis, non v. vix constrictis.

Hab. in caulibus emortuis *Silenes Otitis*, Rouen Galliæ. — Ab affini *M. rupicola* sporidiis clavulatis, non constrictis etc. distinguenda.

7. **Metasphæria ambigua** Berl. et Bres. Micr. Trid. p. 39. t. III, f. 9. 3366

— Peritheciis sparsis, epidermide tectis, demum eâ inflata prominulis, globoso conoideis, sursum obtusissimis, ostiolo minime papillato pertusis, nigris, rugosulis, contextu crasse parenchymatico, atro; ascis cylindræo-clavatis, paraphysibus coalitis cinctis, 8-sporis, 100-110 \approx 12-13; sporidiis subdistichis, basi monostichis, fusoides, sæpissime curvatis, transverse 1-septato-constrictis, eximie biconoideis, parte superiori crassiore (an demum 3-5-septatis?) mucro crasso obvolutis, 27-30 \approx 5 sine mucro, et 42-45- \approx 8-9 cum mucro, hyalinis.

Hab. in caulibus emortuis *Sambri* Ebulli, Val di Sole pr. Trento.

8. **Metasphæria Origani** Mout. Ascom. Liège. II, p. 13, t. I, f. 15. — 3367

Peritheciis subglobosis, $\frac{1}{5}$ mm. diam., epidermide tectis, ostiolo brevi erumpente fasciculo setularum, 4 μ . cr., coronato; ascis clavatis sursum rotundatis, subsessilibus, octosporis, 90-100 \approx 18-20, paraphysibus filiformibus, ascos subsuperantibus; sporidiis distichis longe oblongis, inæquilateris, utrinque rotundatis v. obtusis, initio mucro obductis et 6-partitis, dein 5-septatis, ad septa leniter constrictis, hyalinis, guttulatis, 26-31 \approx 7-8.

Hab. in caulibus *Origani vulgaris*, Sprimont Belgii. — Affinis *M. brunneæ*.

9. **Metasphæria algeriensis** Sacc. et Berl. in Rev. Myc. 1886, p. 35. 3368

— Peritheciis gregariis vel subsparis, atris, primum tectis, dein epidermide secedente emergentibus, conoideis vel globoso-conoideis; ascis cylindræis, sursum leniter attenuatis, 70-80 \approx 14 breviter-que stipitatis, paraphysibus filiformibus,asco longioribus, curvulis obvallatis; sporidiis distichis, cylindræis, torulosis, 5-ocularibus, 18-20 \approx 5, hyalinis.

Hab. in caulibus exsiccatis *Cirsii gigantei* et *Mesembryanthemi edulis* in Algeria.

10. **Metasphæria Cichorii** Passer. Diagn. F. N. I, n. 59. — Peritheciis 3369
sparsis, tectis, minutis, pustuliformibus; ostiolo punctiformi, atro
emerso; ascis clavatis, sensim basi attenuatis, paraphysibus nume-
rosis filiformibus superatis, 8-sporis; sporidiis biserialibus, clavatis,
4-septatis et constrictis, loculo pænultimo latiore, hyalinis, 20-25
≈ 7,5.

Hab. in caule et ramis siccis *Cichorii Intybi*, Vigheffio
pr. Parme Ital. bor.

11. **Metasphæria humulina** (Peck) Sacc., *Sphæria* Peck 32 Rep. p. 52. 3370
— Peritheciis parvis, subprominulis, epidermide nigrificata tectis;
ostiolis minutis, epidermidem perforantibus; ascis cylindræis; spo-
ridiis monostichis, ellipsoideis, 3-septatis, hyalinis, 15 ≈ 7,5.

Hab. in caulibus *Humuli Lupuli*, Carlisle Amer. bor.

12. **Metasphæria Kali** (Fab.) Sacc. *Leptosphæria Kali* H. Fab. Sphér. 3371
Vaucl. II, pag. 56, f. 22. — Peritheciis sparsis, globoso-deplanatis,
epidermide tectis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. latis; ostiolo brevi, papillulato, erum-
pente; ascis late clavatis, brevissime et crasse stipitatis, paraphy-
sibus filiformibus et longioribus obvallatis, 8-sporis, 100-110 ≈ 15-
18; sporidiis subdistichis, hyalinis, fusoideis, 4-septatis, ad septum
secundum constrictulis, hinc ovoideis, illinc conoideis et longiori-
bus; loculis vix conspicue guttulatis, 25-30 ≈ 7-8.

Hab. ad caules exaridos *Sasolæ Kali*, Vaucluse Galliæ.

13. **Metasphæria Gei** Rich. Cat. Champ. Marn. n. 1357. — Perithe- 3372
ciis subcutaneis, sparsis; ascis clavatis v. cylindræis; paraphysi-
bus septatis; sporidiis mono-distichis, fusoideis, chlorino-hyalinis,
3-septatis.

Hab. in caulibus siccis *Gei urbani*, St.-Amand, St.-Lumier
Galliæ.

14. **Metasphæria primulicola** Pat. in Rev. Myc. 1886, pag. 181. — 3373
Peritheciis minutis, epidermide tectis, atris; ascis subsessilibus, cy-
lindræis, 70-110 ≈ 13-15, apapophysatis; sporidiis hyalinis, fusi-
formibus, 3-4-septatis, 30 ≈ 6,5.

Hab. in caulibus emortuis *Primulæ callianthæ*, Yunnan
Sinarum (ÅB. DELAVAY).

15. **Metasphæria depressula** Sacc. et Roum. in Rev. Myc. 1883, t. 39, 3374
f. 7. — Peritheciis dense gregariis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., initio epi-
dermide velatis, dein denudatis, globoso-depressis, dein collaba-
scendo umbilicatis, ostiolo brevi papillato; ascis cylindræis breve

stipitatis, 80-90 \approx 12, parce paraphysatis, octosporis; sporidiis distichis fusoideis, loculo secundo inflato, 30 \approx 5, utrinque obtusiusculis, subhyalinis.

Hab. in caule Umbelliferarum in Gallia. — Affinis *M. Lathyri*, a qua differt peritheciis majoribus et magis depressis, sporidiorum articulo secundo magis inflato.

16. **Metasphæria Ferulæ** Bacc. et Avett. Contr. Stud. Mic. roman. 3375 p. 5, t. XVI, f. 4. — Peritheciis punctiformibus, sparsis vel interdum in series longitudinales dispositis, 165 μ . latis, primitus epidermide tectis, dein superficialibus, sursum crassis, ostiolo minuto perforatis; ascis cæspitosis, breviter stipitatis, basi valde dilatatis, apice (membrana crassa) obtusis, 80 \approx 15, 8-sporis; paraphysibus filiformibus, ramosis, septatis obvallatis; sporidiis subfusiformibus, in asci parte inferiori congestis, tri-vel quadri-septatis, dimidia superiori parte crassiuscula, 18 \approx 5,5.

Hab. in ramulis emortuis Ferulæ communis in Horto Panisperna Romæ Ital. merid.

17. **Metasphæria Xerophylli** (Ellis) Sacc. *Leptosphæria Xerophylli* 3376 Ellis Amer. Nat. 1883, pag. 316. — Peritheciis sparsis, subglobosis, 150-190 μ . diam., foliorum parenchymate semiimmersis, ostiolo obtuso, late perforato, erumpente; ascis oblongis v. oblongo-clavatis, sessilibus, 55-60 \approx 15, obsolete paraphysatis; sporidiis biserialis, late fusoideis, leniter curvis, 4-nucleatis, 3-septatis, constrictulis, 19-25 \approx 5-6,5, hyalinis (an tandem fuscis?).

Hab. in foliis Xerophylli asphodeloidis, Willow Grove Amer. bor., socio *Coniothyrio Xerophylli* Ell. l. c., peritheciis minutis subsuperficialibus; sporulis oblongo-ellipsoideis, fuligineis, 4 \approx 2.

18. **Metasphæria? macrospora** Speg. F. Pat. n. 132. — Peritheciis 3377 in matrice arescenti-dealbata sparsis, parenchymate immersis, ostiolo papillulato, tantum superficiem attingente, non vel vix exserto donatis, globosis, 200-250 μ . diam., atris, glabris, levibus, crassiuscule membranaceis; contextu parenchymatico, fuligineo-atro; ascis paucis in quoque perithecio saccatis vel ovatis, antice obtuse rotundatis crasseque tunicatis, postice pedicello brevissimo, noduloso donatis, 80-95 \approx 30-40, 8-sporis, aparamphysatis; sporidiis inordinate distichis, fusoideo-ellipticis, 38-42 \approx 12-13, utrinque obtusiusculis, subcurvulis, 7-septatis ac constrictis, loculis dense guttulatis, quarto supero ceteris nonnihil crassiore, primo hyalinis ac tunica mucosa crassiuscula concolore vestitis, dein nudis, dilute fumoso-chlorinis.

Hab. ad folia viva *Azorellæ trifurcatæ* in aridis maritimis, Gregory bay Patagoniæ. — Species pulcherrima notis nonnullis ad *Pleosporam* vergens, anceps etiam inter *Leptosphæriam* et *Sphærulīnam* nutat!

19. **Metasphæria torulispora** Berl. Exc. Frioul p. 12, t. 9, f. 7. — 3378

Peritheciis sparsis, primo epidermide tectis, dein emergentibus et fere superficialibus, globoso-conoideis v. demum sursum complanato-collapsis, ostiolo minuto, pertusello, conoideo præditis, $\frac{1}{2}$ mm. diam., coriacellis; ascis cylindræis vel leniter cylindræo-clavatis, basi in stipitem breviusculum nodulosum attenuatis, sursum late rotundatis foveolatisque, paraphysibus filiformibus cinctis, 150-160 \approx 18-20; sporidiis octonis, sursum distichis, basi oblique monostichis, oblongo-fusoideis, rectis vel sæpius curvulis, utrinque crassiuscule rotundatis, transverse 5-septatis, ad septa, præcipue ad medium valde constrictis, eximie torulosis, loculis crasse 1-guttatis, tertio quartoque ab apice (sed tertio ampliore) ceteris crassioribus, 35-36 \approx 10-12, hyalinis.

Hab. ad caulem exsiccatum plantæ herbacæe cujusdam, Osoppo agri Forojulensis. — *M. brunneæ*, *M. eburneæ* et *M. Cerlettii* affinis.

20. **Metasphæria Arabidis** Johans. Svamp. Island p. 169, tab. XXIX, 3379

fig. 11. — Peritheciis sparsis vel gregariis, depresso-sphæroideis, atris vel cinereo-fuscis, poro rotundo pertusis, 180-200 μ . diam.; ascis cylindræo-clavatis, breviter pedicellatis, paraphysatis, octosporis, 54-60 \approx 10; sporidiis distichis, cylindræo-fusoideis, hyalinis, triseptatis, non constrictis, loculo secundo vix vel levissime inflato, rectis vel curvulis, 22-28 \approx 4-5.

Hab. in foliis emortuis *Arabidis alpinæ*, Eskifjördur Islandiæ orientalis.

21. **Metasphæria? cryptospila** (Berk.) Sacc. *Sphæria cryptospila* 3380

Berk. in Hook. Handb. New Zeal. Flor. p. 636. — Microscopica, punctiformis, nigra, lucens; ascis brevibus; sporidiis linearibus, curvis, 3-4-septatis.

Hab. ad folia *Hyperici*, Nova Zelandia in insula septentr. (SINCLAIR). — Dubia quia sporidiorum color non indicatus.

2. In Dicotyledoneis lignosis.

a. Ramicolæ.

22. **Metasphæria tinctoria** Pass. Diagn. Fung. nuovi I, n. 56. — Peri- 3381

theciis secus matricis strias digestis, minutis, pustuliformibus, tectis,

atris; ostiolo obtuso, vix emerso; ascis clavatis, basi attenuatis, $75 \approx 10$, paraphysibus tenuibus, numerosis obvallatis; sporidiis fusiformibus, rectis vel vix curvis, leniter 3-septatis, non constrictis, utrinque acuminatis, hyalinis, $20 \approx 5$.

Hab. in ramulis siccis Genistæ tinctoriæ, Collecchio pr. Parma Ital. bor.

23. **Metasphæria Spartii** Brun. Champ. Saint. V, p. 3. — Peritheciis 3382 membranaceis, sparsis vel approximatis, epidermide atratula tectis, demum suberumpentibus globuloso-depressis, nigris, ostiolo papillato erumpente; ascis tereti-clavatis, subsessilibus, $80-90 \approx 12$; paraphysibus?.....; sporidiis distichis, oblongis, hyalinis, 4-guttulatis, 3-septatis, $25 \approx 8-9$.

Hab. in caulibus emortuis Spartii juncei, Tonnay-Charente Galliæ.

24. **Metasphæria Liriodendri** Pass. Diagn. Fung. nuovi III, n. 28. — 3383 Peritheciis sparsis vel subgregariis, minutis, sub epidermide turgida nidulantibus, ostiolo vix prominulo; ascis clavatis, paraphysibus tenuibus obvallatis, breviter stipitatis, $75-90 \approx 10$, octosporis; sporidiis distichis, fusiformibus triseptatis, medio leniter constrictis, quadriguttulatis, loculo altero ex intermediis tumidulo, $15-20 \approx 4-5$, hyalinis.

Hab. in ramulis siccis Liriodendri Tulipiferæ, sociâ *Phoma Thümenii*, in horto botanico parmensi Ital. bor.

25. **Metasphæria Myricæ** Peck in 38 Rep. St. Mus. pag. 105, tab. 2, 3384 fig. 24-26. — Peritheciis numerosis, late conoideis, $400-520 \mu$. latis, epidermide adhærente tectis, nigris, intus albis, ostiolis pertusis; ascis clavatis, obtusis, $100-120 \approx 15-20$; sporidiis stipatis oblongis vel subfusiformibus, rectis vel curvulis, primum uniseptatis quadrinucleatisque, septo constrictis, denique triseptatis, $30-40 \approx 10-12$, hyalinis; paraphysibus filiformibus, conglutinatis.

Hab. in ramis emortuis Myricæ Galæs, Caroga Amer. bor.

26. **Metasphæria Robergia** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 3385 Ill. Fung. Slav. n. 858. — Peritheciis subcutaneis, erumpentibus, globulosis, obtuse papillatis, atris, intus pallidis, $\frac{1}{3}$ mm. diam.; ascis teretibus, apice rotundatis, basi brevissime abrupte stipitatis, aparaphysatis (?), octosporis; sporidiis fusoideo-elongatis, subinde curvulis, utrinque obtuse attenuatis, $36-48 \approx 3$, dense 18-20-guttulatis, hyalinis.

Hab. in cortice Aceris campestris pr. Vinkovce Slavoniæ.

— Affinis videtur *Leptosphæriæ Mulleri*.

27. **Metasphæria Massarina** Sacc. in Misc. Myc. I. pag. 22. — Pe- 3386
 ritheciis sparsis, subcutaneis, vix erumpentibus, globoso-depressis, obsolete papillulatis, $\frac{3}{4}$ mm. diam., subcoriaceis; ascis cylindraceis, breve stipitatis, apice rotundato-obtusis, 125-130 \approx 10-11, paraphysibus tenuibus, subinde ramulosis obvallatis, octosporis; sporidiis monostichis, oblongis, rectis, utrinque obtuse rotundatis, 23-28 \approx 8-10, 5-6-septatis, non constrictis, nisi leniter ad medium, hyalinis.
Hab. ad ramulos corticatos Ribis alpini pr. Neuchâtel in Helvetia (MORTHER). — Pulchra species, ad *Massarinam* accedens, sed sporidiorum mucus nullus.
28. **Metasphæria peridermii** Pass. Diagn. Fung. nuovi IV, p. 6. — 3387
 Peritheciis sparsis, tectis, ovalibus, atris; ascis paraphysibus crebre guttulatis, filiformibus, superantibus stipatis, elongatis v. fusiformi-clavatis, rectis v. curvis, 40-62 \approx 10-12; sporidiis distichis, elongatis, utrinque rotundatis, hinc sæpius angustioribus, subcuneiformibus, triseptatis, non constrictis, hyalinis, 20 \approx 8.
Hab. in cortice trunci vivi Pruni avii, Corniglio in Apennino parmensi Ital. bor.
29. **Metasphæria caninæ** Pass. Diagn. Fung. nuovi IV, n. 21. — Pe- 3388
 ritheciis sparsis, tectis, pustuliformibus, atris, nitidulis; ascis paraphysatis, clavatis, 70-85 \approx 12; sporidiis elongato-cuneiformibus, 4-raro 5-septatis, hyalinis, 20-27,5 \approx 5-6.
Hab. in aculeis Rosæ caninæ, Vigheffio pr. Parma Ital. bor.
30. **Metasphæria clypeosphærioides** Bomm. Rouss. Sacc. sp. nov. — 3389
 Peritheciis dense gregariis, globulosis, 300 μ . diam., epidermide atrata fissa tectis, in sicco depressis, contextu atro subinde rubescente, ostiolo brevissimo; ascis cylindræis, 54-75 \approx 6,5-8, octosporis, mox fluxilibus; sporidiis monostichis raro distichis, subfusoides, 10-12 \approx 3,5-4, hyalino-chlorinis; paraphysibus copiosis, ramosis, flexuosis sed parum distinctis.
Hab. in sarmentis Rubi fruticosi, Groenendael Belgii. — Habitus ad *Clypeosphæriam* e. g. *C. Hendersoniæ* accedens.
31. **Metasphæria Fontanesiæ** Pass. Diagn. Fung. nuovi I, n. 60. — 3390
 Peritheciis crebre sparsis, tectis, minutis, pustuliformibus, ostiolo punctiformi, atro, erumpente, contextu fuligineo, minute celluloso; ascis oblongo-clavatis, basi attenuatis, paraphysibus filiformibus stipatis, 8-sporis, 70-85 \approx 10; sporidiis oblique biserialibus, fusiformibus, curvulis, primo medio septatis et arcte constrictis, dein triseptatis, loculo altero ex intermediis tumidulo, hyalinis, 20 \approx 5.

Hab. in ramis siccis Fontanesiæ phyllireoidis in horto botanico parmensi Ital. bor. — A *Metasphæria socia*, cui affinis, characteribus allatis satis diversa videtur.

32. **Metasphæria taxicola** Peck 39 Rep. p. 58. Ita nominanda *Leptosphaeria taxicola* (Peck) — Syll. II, p. 85. — Sporidia ejus, teste Peck loc. cit., sunt hyalina, 20-23 \approx 4-5.

33. **Metasphæria cavernosa** (E. et E.) Sacc. *Sphæria cavernosa* E. 3391 et E. Journ. of Myc. I, p. 91. — Peritheciis tenuiter coriaceo-carbonaceis, atris $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., interdum 2-3 unitis v. primo fibris corticis tectis, parte superiore vix prominulis, ostiolo subtuberculiformi obtuso; ascis clavato-cylindræis, 80-115 \approx 12-15; paraphysibus filiformibus; sporidiis uniseptatis vel sursum partim biseriatis, acuto-ellipticis, plasmate 3-partito, hyalinis, 18-22 \approx 7-9.

Hab. in cortice Taxodii distichi, Darien Ca. Amer. bor. (H. W. RAVENEL).

34. **Metasphæria slavonica** Schulz. et Sacc. in Rev. Myc. 1884, 3392 Schulz. Ill. Fung. Slav. n. 694. — Peritheciis gregariis, ligno immersis, globosis, 0,2-0,3 mm. diam., intus albidis, ostiolo emergente, obtusiusculo, perforato; ascis cylindricis, paraphysatis, octosporis; sporidiis monostichis, oblongo-fusoideis, inæquilateris, utriusque obtusiusculis, 6-guttulatis, non constrictis, hyalinis.

Hab. in ramis decorticatis, superficie infuscatis *Vitis vinifera* var. *silvestris* prope Vinkovce Slavoniæ.

35. **Metasphæria sarmenticola** Pass. Diagn. Fung. nuovi I, n. 55. — 3393 Peritheciis crebre sparsis, sublineari-seriatis, ostiolo minuto, atro, emerso; ascis eximie clavatis, breviter stipitatis, 8-sporis, paraphysibus tenuibus, parvis immixtis, 80-100 \approx 12; sporidiis fusiformibus, distichis, 6-7-septatis, non constrictis, leviter curvis, hyalinis, 25-30 \approx 5.

Hab. in cortice sarmentorum siccorum *Vitis*, Parma Ital. bor.

36. **Metasphæria Sambuci** Pass. Diagn. Fung. nuovi I, n. 57. — 3394 Peritheciis sparsis, tectis, minutis; ostiolo perforante; ascis clavatis, paraphysibus tenuibus stipatis, 70-80 \approx 10; sporidiis fusiformibus, triseptatis, constrictis, hyalinis, loculo subultimo inflato, interdum maximo, et tunc transversim diviso, ideoque sporidiis 4-septatis, 20 \approx 5-7.

Hab. in ramis tenellis *Sambuci nigræ*, Gajone prope Parma Ital. bor.

37. **Metasphæria Forsythiæ** Pass. Diagn. Fung. nuovi, III, n. 29. — 3395 Peritheciis tectis, minutis, pustuliformibus, globosis, atris, ostiolo

papillari per epidermidem perforatam vix emersis; ascis paraphysatis, clavatis, longe attenuato-stipitatis, 8-sporis, $112 \approx 15$; sporidiis fusiformibus, utrinque acuminatis, curvulis, 5-septatis, medio constrictis, loculis guttulatis, septis tenuissimis, chloro-joduri zinci ope tantum perspicuis, $25-30 \approx 5-6$,

Hab. in ramulis siccis Forsythiæ viridissimæ sociis *Phomæ* et *Rhabdosporæ* sp. in agro Parmensi.

38. **Metasphæria constricta** Bres. in Rev. myc. 1890, p. 185. — Peritheciis gregariis, minutis, 80-130 μ . diam., epidermide tectis, globoso-lenticularibus, demum subcollapsis, poro pertusis; ascis clavatis, 80-100 \approx 14-16; sporidiis octonis, distichis, ellipticis vel subclavatis, 3-7-septatis, demum uno alterove septo verticali submuriformibus, medio constrictis, 15-30 \approx 6-8, guttulatis.

Hab. in ramis Evonymi europæi et Rosæ caninæ pr. Leutschau Hungariæ (V. GRESCHIK). — Generi *Winteriæ* ob sporidia muricata affinis sed peritheciis nigris et membranaceis distincta.

39. **Metasphæria conformis** (B. et Br.) Sacc. in Miscel. Myc. I, p. 6, 3397
Sphæria conformis B. et Br. Curr. Spher. Hook. — Peritheciis majusculis $\frac{3}{4}$ mm. diam., tectis, depressulis, papilla acuta erumpente; ascis crasse fusoides, sessilibus, apice obtusis, 60-72 \approx 18-20, octosporis, paraphysatis (an?); sporidiis distichis v. oblique 1-stichis, tereti-oblongis, utrinque rotundatis, curvulis, 3-septatis, non constrictis, 20-24 \approx 7-8, 4-nucleatis v. pluriguttulatis, hyalinis.

Hab. in ramis Alni, Troyes Galliæ, sociis *Cryptospora suffusa* et *Cryptosporio Neesii*, quæ inter se metagenetice vere connexa sunt, non vero cum *Metasph. conformi* neque cum *Ditopella*, quibus (mirum!) a Tulasneo subjunguntur. Eximia species, perperam ab auctoribus ut forma *Ditopellæ fuisporæ* habita. Characteres *Metasphæriæ* sed natura potius *Calosporæ*, tamen vere simplex.

40. **Metasphæria Caricæ** Pass. Diagn. F. N. III, n. 31. — Peritheciis 3398
crebre sparsis, minutis, sub epidermide pustulatim elevata nidulantibus; ostiolo punctiformi, atro, vix emerso; ascis cylindrico-clavatis, basi breviter attenuato-stipitatis, 8-sporis, 85-100 \approx 8; sporidiis subuniserialibus, fusiformibus, rectis v. curvulis, triseptatis, chlorinis, intra ascos flavidulis, 22,5 \approx 5; paraphysibus copiosis, filiformibus.

Hab. in ramo fracido Fici Caricæ rarissima, Parma Ital.

bor. — *M. corticolæ* (Fuck.) proxima, sed peritheciis nunquam erumpentibus et sporidiis exacte fusiformibus, chlorinis distinguenda.

41. **Metasphæria rubida** Ell. et Ev. Proc. Phil. 1890, p. 237. — Peritheciis gregariis, globosis, minutis, 250 μ . diam., ligno subimmersis, ostioli obtuse conicis prominentibus; nucleo superne rubido, inferne albo; ascis clavato-cylindræis 75-80 μ . long., parte sp. 40 \approx 12; paraphysibus copiosisasco longioribus; sporidiis stipato-distichis oblongo-fusoideis, leniter curvis, 3-septatis, articulo secundo inflato, hyalinis, 20-22 \approx 3,5-4,5. 3399

Hab. in trunco dejecto Platani occidentalis, Flatbush, Long Island, New York Amer. bor. (Rev. J. L. ZABRISKIE). — Peritheci apex materie nigra stromatica cinctus. «An potius *Zignoella?*»

42. **Metasphæria Coryli** Celotti Micr. Montp. p. 34, f. 5. — Peritheciis subgregariis, minutis, epidermide tectis, globoso-depressis, ostiolo conico erumpente; ascis clavatis 75-80 \approx 10-12, octosporis; paraphysibus copiosis filiformibus; sporidiis distichis fusoides utrinque acutiusculis, curvulis, 3-septatis, ad septa, præcipue medium, constrictis, hyalinis, 18-22 \approx 5-6. 3400

Hab. in ramulis Coryli Avellanæ var. purpureæ, Montpellier Gallia.

43. **Metasphæria helvetica** Sacc. et Berl. Misc. Myc. II, p. 19, n. 84, tab. X. f. 22. — Peritheciis gregariis, subcutaneis, minutis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., breve papillatis, epidermide supra perithecia sæpe infuscata; ascis cylindricis, breve stipitatis, paraphysatis, octosporis 130-140 \approx 18; sporidiis oblique 1-stichis v. subdistichis, oblongo-clavulatis, deorsum acutioribus, 3-septatis, leviter constrictis, minute pluri-guttulatis, hyalinis, 30-32 \approx 10-11. 3401

Hab. in ramulis Lonicerae Xylostei pr. Neuchâtel Helvetiæ (MORTHER).

44. **Metasphæria Lonicerae** Fautrey in Rev. Myc. 1890, p. 122. — Peritheciis sparsis, majusculis, globosis, dein collapsis, epidermide tectis, ostiolo egregie pertuso erumpentibus; ascis cylindræis, sessilibus, rosulatis, 60-67 \approx 12-14; paraphysibus numerosis, asco æquilongis, articulatis, 3 μ . diam.; sporidiis hyalinis, 3-septatis, loculis duobus, uno paullo crassiore, rectis v. vix curvulis, 25-33 \approx 4. 3402

Hab. in ramulis junioribus recisis Lonicerae Xylostei et Caprifolii, Noidan Côte d'Or Gallia (F. FAUTREY). — *M. corticolæ* et *M. helveticae* affinis.

45. **Metasphæria plagarum** (Cooke et Hark.) Berl. et Vogl. Add. Syll. 3403
p. 154, *Sphæria plagarum* Cooke et Harkn. in Grevillea XIII,
p. 19. — Gregaria, tecta, elevata; peritheciis subglobosis, atris,
carbonaceis, in plagas consociatis, cuticulâ elevatâ convexâ tectis;
ascis clavatis, sessilibus, octosporis; sporidiis lanceolatis, inordi-
natis, triseptatis, hyalinis, 18-20 \approx 4, utrinque acutis.

Hab. in cortice Eucalypti in California (HARKNESS).

46. **Metasphæria subsimilis** Schulz. et Sacc. in Rev. Myc. 1884, 3404
Schulz. Fung. Slav. n. 566. — Peritheciis laxè gregariis, globulosis,
 $\frac{1}{4}$ mm. diam., intus albis, peridermio, pustulatim elevato, tectis,
ostiolo depresso, obtuso, vix erumpente; ascis clavulatis, brevissime
crasseque stipitatis, longe filiformi-paraphysatis, octosporis; spori-
diis distichis ovato-oblongis, 15-20 \approx 6, utrinque rotundatis, 3-se-
ptatis ad septum medium leniter constrictis, hyalinis.

Hab. in ramis corticatis Carpini prope Vinkovce Slavoniæ.
— *Met. depressæ* affinis.

47. **Metasphæria sepincola** (B. et Br.) Sacc. Syll. II, pag. 164, Berl.
Alc. spec. Leptosph. p. 14, t. II, f. 2, *Lept. vagabunda* Sacc. ex
p. (forma hyalospora). — Perithecia 150-200 μ . diam., nucleo
albo; asci 85-100 \approx 12-16, copiose paraphysati; sporidia breve fu-
soidea, recta v. curvula, fere 2 conoidea, typice 4-guttata, 22-24 \approx
6-7, semper hyalina. Nascitur in ramis Rubi, Carpini, Cratæ-
gi, Corni, Vitalbæ, Coryli, Spirææ in tota fere Europa. —
Sec. Starb. Centralbl. 1891, I, p. 261, *S. sepincola* Fr. ex speci-
mine orig. esset *Sphærulina intermixta*.

48. **Metasphæria corticola** (Fuck.) Sacc. Syll. II, pag. 166. — Asci 3405
120 \approx 6-8; sporidia 18-28 \approx 6-7, 3-septata, vix constricta; perithe-
cia $\frac{1}{6}$ mm. lat. (in forma cornicola sibirica). — *Metasphæria*
lejestega (Ell.), *M. depressa* (Fuck.) et *M. cinerea* (Fuck.) forte
ab hac non satis differunt. — Var. **Persicæ** Sacc. et Schulz. in
Rev. Myc. 1884, Schulz. Ill. fung. slav. n. 681. — A typo præci-
pue differt sporidiis distichis, 12-17 \approx 4-6, fusoideis, 3-septatis, haud
constrictis, hyalinis, ascis clavulatis.

Hab. in ramis Persicæ vulgaris pr. Vinkovce Slavoniæ.

49. **Metasphæria annulata** Pat. Bull. Soc. Myc. 1888, p. 114. — Pe- 3406
ritheciis globulosis, nigris, nitentibus, 2-3 mm. diam., profunde im-
mersis, gregariis v. sparsis; ostiolo lato, pertuso, e depressione or-
biculari oriente; ascis clavatis, apice obtusis, basi attenuatis, 8-spo-
ris, 120-140 \approx 15-18; paraphysibus linearibus, distinctis; sporidiis
1-stichis, ex ovoideo fusoideis, hyalinis, 3-septatis, 21-28 \approx 10-12.

Hab. in cortice duriore, Caracas Venezuelæ.

b. Fructi-follicolæ.

50. **Metasphæria Cyparissi** Pass. Diagn. Fung. nuovi, I, n. 62. — 3407

Peritheciis sparsis v. subgregariis, tectis, pustuliformibus, subglobosis, erumpentibus, atris; ascis clavatis, paraphysibus tenuibus obvallatis, 8-sporis, 62-87 \approx 10-12; sporidiis subdistichis, fusoideis, 3-septatis, medio constrictis, loculis guttulatis, hyalinis, 17,5 \approx 5.

Hab. in fructibus Cupressi pyramidalis, Talignano in agro parmensi Ital. bor.

51. **Metasphæria Lieuryana** Malbr. et Le Bret. Exc. Crypt. (Champ.) 3408

p. 9. — Peritheciis globoso-convexis, epidermide pustulatim inflata, nigrificata tectis, sæpe in macula decolorata insidentibus, glabris, ostiolo minuto papillato; ascis cylindræis, sessilibus (?), 135 \approx 8-9; sporidiis monostichis, oblongo-ovalibus, apicibus rotundatis, 3-septatis, hyalinis, 17 \approx 6; paraphysibus nullis.

Hab. in pagina inferiore foliorum emortuorum Ilicis Aquifolii, Grand-Couronne prope Rouen Galliæ. — *M. lejustegæ* affinis, a qua epidermide dense colorata, sporidiis acutioribus, nec non matrice differt. — Socia adest *Venturia ilicifolia*.

52. **Metasphæria Molleriana** (Niessl) Berl. et Vogl. Add. Syll. p. 157, 3409

Leptosphæria Molleriana Niessl Contr. Fl. Myc. Lus. p. 14. — Peritheciis hypophyllis, aggregatis, in foliorum parenchymate nidulantibus, demum vertice erumpentibus, minutis, 0,25 mm. diam., globosis, atris glabris, subcarbonaceis, ostiolo papilliformi; ascis cylindræis, subsessilibus, 8-sporis, 40-50 \approx 6-8; sporidiis distichis, cylindræo-cuneatis seu inferne parum attenuatis, rectis, medio septatis sed vix vel haud constrictis, demum 4-cellularibus, hyalinis, 9-11 \approx 2-2½; paraphysibus paucis, exiguis; sporidiis initio ut in *Sphærella* rite evolutis, perfecte 4-cellularibus.

Hab. in foliis emortuis Eucalypti Globuli, Pinhal de Valle de Canas pr. Coimbra Lusitaniæ.

53. **Metasphæria hederæfolia** (Cooke) Sacc. *Sphæria hederæfolia* 3410

Cooke Grev. XI, pag. 110. — Follicola, gregaria; peritheciis globosis, semiimmersis, atris; ascis clavatis; sporidiis elliptico-lanceolatis vel clavatis, triseptatis, hyalinis, 20 \approx 8.

Hab. in foliis Hederæ Helicis, Aiken Carolina inferiore Amer. bor. (RAVENEL).

54. **Metasphæria alba** Pass. Diagn. Fung. nuovi, I, n. 61. — Maculis 3411

subdiscoideis, epiphyllis, albis, margine fusco-rubiginoso cinctis;

peritheciis sparsis v. gregariis, punctiformibus, atris, epidermidem perforantibus, foventibus; ascis subfusiformibus, sessilibus, octosporis, $42 \approx 7,5-8$; sporidiis fusiformibus, rectis vel curvis, 3-septatis, hyalinis, $20 \approx 5$, loculo pænultimo tumidiusculo.

Hab. in foliis languentibus Populi albæ, Sorbolo in agro parmensi Ital. bor.

55. **Metasphæria pampinea** Passer. Diagn. F. N. I, n. 54. — Peri- 3412
theeciis epiphyllis, in macula ampla exarida crebre sparsis, vix prominulis, tectis; ascis brevibus, subclavatis, basi breviter constrictis, 8-sporis, $45 \approx 10$; sporidiis biserialibus, fusiformibus, æqualibus, 7-9-septatis, rectis, $22-23 \approx 3$, in ascis lumine flaveolis, ejectis, subhyalinis.

Hab. in foliis vivis languidis Vitis, Vigheffio prope Parma Ital. bor.

56. **Metasphæria Cassiopes** Rost. Fungi Groenl. p, 561. — Perithe- 3413
ciis sparsis, semiimmersis; ascis cylindraceo-clavatis, $37-40 \approx 10$, paraphysatis; sporidiis octonis, distichis, fusoideo-oblongis, obtusis, 3-septatis, hyalinis, $12-15 \approx 5$.

Hab. in foliis exsiccatis Cassiopes tetragonæ in Groenlandia.

57. **Metasphæria Macluræ** (E. et E.) Sacc. *Leptosphæria Macluræ* 3414
Ell. et Ev. Proc. Phil. 1890, p. 236. — Maculis suborbicularibus, rufido-brunneis, 4-10 mm. diam., margine saturatoribus, centro deciduis; peritheciis plerumque hypophyllis, innato-erumpentibus, minutis, 75μ . diam., nigris; ascis oblongo-cylindraceis, $50-60 \approx 8-10$; paraphysibus?; sporidiis distichis, fusoideis, circ. 6-guttatis, dein 5-septatis, subincurvis, subhyalinis, $20-22 \approx 3$.

Hab. in foliis Macluræ aurantiacæ, Emma, Saline Co., Montana Amer. bor. (Rev. C. H. DEMETRIO).

58. **Metasphæria papulata** (Mout.) Sacc. Syll. II, p. 168. — ***M. viri-** 3415
darii Sacc. F. Rom. n. 27, f. 4. — Peritheciis dense gregariis, tectis, erumpentibus, atris, breve papillatis; ascis cylindraceis, breve stipitatis, $90 \approx 14$, filiformi-paraphysatis, 8-sporis; sporidiis distichis oblongo-fusoideis, $20 \approx 5$, infra medium constrictis, sæpe curvis, typice 4-septatis, rarius 5-6-septatis, cuboideo-nucleatis, hyalinis.

Hab. in pag. sup. foliorum Evonymi japonici, Villa Corsini, Romæ.

59. **Metasphæria Janiculi** Passer. Diagn. F. N. I, n. 58. — Perithe- 3416
ciis epiphyllis, crebre sparsis, punctiformibus, carbonaceis, ostiolo

papillato, vix prominulo; ascis oblongis, sæpius obclavatis; paraphysibus tenuibus, superantibus intermixtis, 8-sporis, $50-80 \approx 12,5$; sporidiis distichis v. oblique monostichis, fusiformi-ovalibus, 4-5-septatis v. potius endoplasmate 5-6-partito, hyalinis, $20 \approx 7,5$.

Hab. in foliis dejectis *Evonymi japonicæ*, in Gianicolo Roma Italiæ, inter specimina *Mycothecæ universalis* Thümen n. 579, sub nomine *Sphæroopsis Evonymi* (C. BAGNIS). — An satis diversa a præcedente?

60. **Metasphæria Idesiæ** Pass. Diagn. Fung. nuovi, III, n. 30. — Pe- 3417
 ritheciis epiphyllis, punctiformibus sparsis, in macula exarida, cinereo-fusca; ascis paucis, oblongo-tubulosis, aparaphysatis, 8-sporis; sporidiis fusiformibus, triseptatis, chlorino-hyalinis, $17,5 \approx 5$.

Hab. in foliis languidis *Idesiæ polycarpæ*, in horto botanico parmensi Ital. bor.

3. In Monocotyledoneis et Acotyledoneis.

61. **Metasphæria palmicola** Pat. Bull. Soc. Myc. 1888, pag. 114. — 3418
 Peritheciis punctiformibus, minutissimis, nigris, globosis, subepidermicis, dein prominentibus, conferte gregariis; ascis clavatis, utrinque attenuatis, $66 \approx 12$; paraphysibus filiformibus, æqualibus, simplicibus v. ramosis; sporidiis elongatis, utrinque acutis, hyalinis, 5-6-septatis, medio constrictis, $20-21 \approx 3-4$.

Hab. in folio putri *Carludovicæ*, Puerto Zamuro Venezuelæ.

62. **Metasphæria Chamæropis** Pass. Diagn. Fung. nuovi, III, n. 32. — 3419
 Peritheciis globulosis, crebre sparsis, tectis, pustulatim erumpentibus; ascis elongato-clavatis, basi attenuato-stipitatis, 8-sporis, $55-75 \approx 10$; sporidiis subdistichis, oblongo-cuneiformibus, triseptatis, non v. vix constrictis, hyalinis, loculis interdum guttulatis, pænultimo subtumido, $17,5-20 \approx 4-5$; paraphysibus non visis.

Hab. in petiolis siccis *Chamæropis humilis* in horto botanico parmensi Ital. bor.

63. **Metasphæria Cumanella** Sacc. et Berl. Myc. aliq. Guin. p. 3 ex 3420
 Rev. Myc. 1889. — Amphigena sed plerumque hypophylla; peritheciis gregariis, globulosis, innatis, ostiolo perexiguo erumpente, $\frac{1}{8}-\frac{1}{6}$ mm. diam; ascis clavulatis, subsessilibus, apice rotundatis, $45-50 \approx 12$, obsolete paraphysatis; sporidiis inordinate distichis, fusoides, curvulis, utrinque acutiusculis, 3-septatis, ad septum medium magis constrictis, $15-17 \approx 3-4$, hyalinis.

Hab. in foliis emortuis *Musæ*, S. Thomé Nova Moka Afr. oc-

cid. (AD. MOLLER). — Ab affini *M. Cumana* differt ascis sporidiisque minoribus.

64. **Metasphæria Sparganii** Fautrey Rev. Myc. 1891, p. 76. — Peritheciis parvis, sparsis, ostiolo erumpentibus; ascis 80-100 \approx 10-12; paraphysibus septatis; sporidiis hyalinis, fusoides, curvis, 3-septatis, loculo secundo crassiore brevioraque, 20-25 \approx 4.

Hab. in Sparganio erecto, Rivière de l'Armançon, Côte-d'Or Gallia.

65. **Metasphæria minor** Schroet. Hedw. 1890, pag. 59. — Peritheciis sparsis, epidermide tectis, ostiolo globoso-acutato prominentibus, globosis, circ. 200 μ . diam.; ascis numerosis, clavatis, breve stipitatis, 8-sporis, 65-75 \approx 11-13; sporidiis infra 1-stichis, medio distichis, fusoides, 4-septatis, utrinque obtusis, loculis 1-guttatis, secundo plerumque prominulo, membrana hyalina, 22-24 \approx 4-5.

Hab. in Allio moschato, Topcider pr. Belgrad Serbiae. — *M. Bellyneckii* affinis, ascis sporidiisque minoribus diversa.

66. **Metasphæria platyspora** Pass. Diagn. Fung. nuovi, IV, n. 22. — Peritheciis crebre sparsis vel subgregariis, epidermide nigrefacta tectis, erumpentibus, subglobosis, atro-nitidis; ascis elongato-fusiformibus v. obclavatis, 8-sporis; paraphysibus valde superantibus, apicem versus attenuatis; sporidiis tristichis, e fronte elongatis, utrinque rotundatis, medio septatis et constrictis, hyalino-opacis, chloro-joduri zinci ope eximie 5-septatis, 15-17,5 \approx 5; e latere vero fusiformibus, apicibus acutis, 2-2,5 μ . cr.

Hab. in caulibus siccis Geitonoplesii angustifolii, Panisperma Roma Italiae.

67. **Metasphæria borealis** Rost. Fungi Groenl. p. 561. — Peritheciis gregariis, majusculis, sphæroideis, papilla conoidea præditis; ascis cylindræo-clavatis, 70-75 \approx 14-16; sporidiis distichis, cuneato-oblongis, 1-3-septatis, utrinque obtusis, hyalinis, 22-25 \approx 5-6.

Hab. in caulibus siccis Tofjeldiæ borealis in Groenlandia.

68. **Metasphæria Caraguatá** Speg. Fungi Guar. Pug. I, n. 227. — Peritheciis primo tectis, dein erumpenti-superficialibus, basi tantum vix insculptis, conoideo v. globoso-lenticularibus, 150-180 μ . d., atris, glaberrimis, levissimis, coriaceo-membranaceis, contextu fere indistincto, densissime minuteque parenchymatico, ostiolo vix papillulato; ascis clavatis, antice acutiuscule rotundatis, postice breviuscule attenuato-pedicellatis, 65-75 \approx 10-12; paraphysibus filiformibus densissime obvallatis, 8-sporis; sporidiis fusoides v. fusoides-subclavulatis, sursum obtusiuscule rotundatis, deorsum attenuato-

acutiusculis, 25-28 \approx 5-6, 7-9-septatis, ad septa non constrictis, primo hyalinis, dein perdilute chlorinis.

Hab. ad folia languida Bromeliæ serræ (vulgo *Caraguatã*), in silvaticis prope Guarapi Bras.

69. **Metasphæria acorella** (Cooke) Berl. et Vogl. Add. Syll. pag. 158, ³⁴²⁶

Leptosphæria acorella Cooke in Grev. XIII, p. 99. — Sparsa, epiphylla; peritheciis minutis, subglobosis, primo tectis, dein erumpentibus, parte superiore prominulis, vix papillatis, nigris; ascis clavatis, octosporis; sporidiis fusiformibus, distichis, 5-septatis, septo medio constrictis, primum nucleatis, hyalinis, 30-35 \approx 6.

Hab. in foliis Acori Calami, sociâ *Phoma Acori*, Totteridge et Kew Britanniæ.

70. **Metasphæria nervisequa** (Wint.) Berl. et Vogl. Add. Syll. pag. 158, ³⁴²⁷

Leptosphæria nervisequa Winter Contr. Fl. Myc. Lus. V, p. 15. — Peritheciis secus nervos primarios sparsis, immersis, demum parum prominentibus, globosis, ostiolo punctiformi, prominulo instructis, membranaceis, atris, 250-260 μ . d.; ascis e basi ventricosa sursum attenuatis, sessilibus, 8-sporis, 60-70 \approx 23 (in parte inferiori), paraphysibus numerosis filiformibus obvallatis; sporidiis inordinate distichis oblongis, inæqualiter didymis, 4-septatis, medio profunde, ad alia septa parum, constrictis, parte superiore 12-14 \approx 6-7, bi-septata, inferiore 8-9 \approx 4,5-2,5 uniseptata, hyalinis.

Hab. ad Smilacis Pseudochinæ folia arida, rarissime, Coimbra Lusitaniæ (MOLLER).

71. **Metasphæria cumana** (Sacc. et Speg.) Sacc. Syll. II, p. 117. — Var.

luzulina Karst. in Hedw. 1884, n. 1, p. 5 et Rev. atque Synop. Ascom. fenn. p. 44. — Peritheciis hypophyllis, sparsis vel subgregariis, innatis, vix erumpentibus, depresso sphæroideis, demum per-tusis, atris, vix 2 mm. diam.; ascis cylindraceo-oblongatis, subsessilibus apice attenuatis, basi sæpe curvulis, 60-75 \approx 9-12; sporidiis octonis, tristichis, fusoideo-bacillaribus, curvulis, spurie 3-septatis aut 3-(vel pluri-)guttulatis, chlorino-hyalinis, ad septa non constrictis, 20-25 \approx 3-4; paraphysibus parum notabilibus. — In foliis emortuis Luzulæ pilosæ, Mustiala Fenniæ.

72. **Metasphæria sepulta** Pass. Diagn. Fung. nuovi, III, n. 33. — Pe- ³⁴²⁸

ritheciis immersis globosis, ostiolo punctiformi vix erumpente, interdum superficialibus; ascis subclavatis paraphysatis, 75-100 \approx 12,5; sporidiis distichis fusiformibus, 3-septatis, ad septa constrictis, loculis guttulatis, altero ex intermediis tumidulo, 25-30 \approx 7,5 hyalinis, tandem flavidulis.

Hab. in culmis fracidis Scirpi *Holoschœni*, Vigheffio pr. Parma Ital. bor.

73. **Metasphæria mosana** Mout. *Ascom.* Liège. II, p. 14, t. I, f. 3 — 3429

Peritheciis globulosis, 200 μ . diam., sparsis vel subgregariis, poro latiusculo pertusis, immersis, contextu membranaceo fuligineo; ascis tereti-clavatis, paraphysatis, octosporis, 120 \approx 25; sporidiis di-tristichis, oblongis, vulgo rectis, utrinque rotundatis, hyalinis, 3-septatis, constrictis, loculis mediis circ. duplo longioribus, 40-48 \approx 10-12.

Hab. in calamis putrescentibus Scirpi ad ripas Mosæ prope Liège Belgii.

74. **Metasphæria macrotheca** Rost. *Fungi Groenl.* p. 561. — Peri- 3430

theciis gregariis, globoso-depressis; ascis amplissimis, ovato-oblongis, sub apice contractis, stipitatis, 130-135 \approx 30-35; sporidiis inordinate 3-stichis, octonis, 3-septatis, guttulis quaternis cuboideis farctis, hyalinis, 32-35 \approx 12-13.

Hab. in foliis siccis *Caricis hyperboreæ* et *C. rigidæ* in Groenlandia.

75. **Metasphæria ceratotheca** (Cooke) Sacc. *Sphæria ceratotheca* Cooke 3431

Grevillea XI, pag. 109. — Superficialis, subiculo atro conidifero nidulans; peritheciis minimis, atris, opacis, hemisphæricis; ascis lanceolatis, sursum acute cornuto-apiculatis; sporidiis lanceolatis, tri-septatis, hyalinis, 25 \approx 5; conidiis pluri-septatis, muriformibus, brunneis, 45-50 μ . longis.

Hab. in culmis *Zeæ* Maydis, Aiken in Carolina inferiore Americæ borealis (RAVENEL).

76. **Metasphæria Zeæ** Pass. *Diagn. Fung. nuovi*, III, n. 34. — Peri- 3432

theciis sparsis, tectis, dein nudatis, atris, punctiformibus, contextu minute celluloso-fuligineo; ascis lanceolatis v. basi subventricosis, aparaphysatis, 8-sporis, 60 \approx 10; sporidiis distichis vel tristichis, fusiformibus, utrinque acutis, hyalinis, varie guttulatis, tandem triseptatis, non constrictis, 15 \approx 4,5.

Hab. in culmo fracido *Zeæ* Maydis, Fornovo in agro parmensi Ital. bor.

77. **Metasphæria Lolii** Pass. *Diagn. Fung. nuovi*, I, n. 63. — Peri- 3433

theciis sparsis, tectis, subglobosis, atris; ascis paraphysatis, oblongo-cylindricis, vix stipitatis, 35-50 \approx 7-8, 8-sporis; sporidiis distichis, fusiformibus, leniter arcuatis, utrinque acuminatis, 15-20 \approx 2,5-3, tenuissime triseptatis, chlorinis præsertim in asci lumine, ejectis subhyalinis.

Hab. in rachide sicca Lolii perennis, sociâ *Phomâ Lolii* Passer. ined., Vigheffio pr. Parma Ital. bor.

78. **Metasphæria Lindsayana** (Curr.) Sacc. *Sphæria Lindsayana* Curr. 3434

in Linds. Lich. and Fungi of Otago pag. 423, tab. XXX, f. 1-7. — Peritheciis minutis, globulosis, epidermidem circulariter rimose v. stellatim perforantibus; ascis; sporidiis biseriatis, irregulariter cymbiformibus, utrinque acutiusculis, 6-7-septatis leniterque constrictis, 35-45 \approx 6,5-7, hyalinis. — Spermogonia phomiformia, sporulis oblongis, curvulis, hyalinis, 4 \approx 1,5-2.

Hab. in foliis emortuis *Phormii tenacis*, quæ minute nigropunctata fiunt, prope Otago Novæ Zelandiæ. — Perithecia epidermidi tam arcte adhærent, ut natura ostioli vix manifesta.

79. **Metasphæria albescens** Thuem. Pilze d. Reispfl. p. 5. — Peri- 3435

theciis compresso-globosis, subsparsis, nigris, epidermide tectis, mediis, poro unico pertusis; ascis tereti-fusoideis, brevi-pedicellatis v. fere sessilibus, apice obtusatis, 70-85 \approx 16-22; sporidiis distichis oblongo-fusoideis, 3-5-septatis, arcuatis, hyalinis, 18-24 \approx 5-6; paraphysibus perpaucis, ramulosis ascos æquantibus.

Hab. in seminibus vix maturis *Oryzæ sativæ*, Aquileja Friuli.

80. **Metasphæria punctulata** Ell. et Ev. in Journ. Myc. 1888, p. 64. 3436

— Peritheciis sparsis, immersis, in culmo sursum circa ostiola tantum v. demum plus minus omnino nigrificata immersis, globosis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., nucleo albo, firmulo præditis; ostiolo parvo, erumpente, nigro; ascis clavato-cylindræis, 80-110 \approx 20, indistincte paraphysatis; sporidiis fusoides, subincurvis, 3-septatis, hyalinis, 40-50 \approx 6-7.

Hab. in culmis emortuis *Panici Curtisii*, St. Martinsville Louisiana Amer. bor.

81. **Metasphæria insularis** Speg. F. Fueg. n. 221. — Maculis nullis; 3437

peritheciis sparsis, immersis, globulosis, 180-200 μ . diam., coriacellis, atris, glabris, contextu pellucido, subindistincte parenchymatico, fuligineo; ostiolo rotundo-carbonaceo, papillulato, epidermidem perforante, non vel vix exserto; ascis cylindræis, antice rotundatis, subcrassiuscule tunicatis, deorsum breviter attenuatis ac in pedicellum brevissimum crassumque 100-110 \approx 8-10 productis, 8-sporis; paraphysibus densiusculis, filiformibus; sporidiis recte vel alterne distichis, fusoides, utrinque acutiusculis, 19-22 \approx 4, 5-7-blastis vel 5-7-septatis, ad septa parce constrictis, loculo tertio supero sæpius nonnihil crassiore, strato mucoso hyalino, crasso cinctis, hyalinis.

Hab. ad vaginas putrescentes *Poæ Forsteri* in maritimis pr.

Penguin rookery, Staten island Amer. austr. — Ascorum sporidiorumque structura lophiostomacea sed ostiolo rotundo!

82. **Metasphæria recutita** (Fr.) Sacc. Syll. II, p. 176 — Var. **Agropyri** Pass. in Brun. Mat. myc. Saint. p. 18. — Peritheciis globulosis, nucleo albo; ascis sursum attenuatis, brevi abrupte stipitatis, $45 \approx 10$, octosporis, aparaphysatis (?); sporidiis fusoideis, 3-septatis, hyalinis. 3438

Hab. in foliis languidis Agropyri repentis, Saintes Galliæ.

83. **Metasphæria stenotheca** E. et E. Journ. Myc. 1887, p. 127. — Peritheciis sparsis, membranaceis, subovoideis, $\frac{1}{4}$ mm. diam., immersis; apice depresso-conico, prominulo, ostiolo papilliformi excepto epidermide nigrificata tecto; ascis linearibus, 70-80 \approx 4-5, indistincte paraphysatis; sporidiis sæpius oblique monostichis, oblongo-fusoideis, 3-4-nucleatis, dein 3-septatis, subhyalinis, 12-16 \approx 3. 3439

Hab. in vaginis culmorum emortuorum Panici Curtisii, Pointe à la Hache, Louisiana Amer. bor. — Ab aliis speciebus graminiculis dignoscitur ascis linearibus.

84. **Metasphæria Marchaliana** Sacc. in Rev. Myc. 1884. — Peritheciis lineolatum et parallele dense 1-3-seriatis lineaque atra, epidermide sæpe tectis, hinc fere scirrhioides, sed vere discretis, globosis, minutis, 120-130 μ . diam., ostiolo papillato breviter emergente; contextu minute parenchymatico, fuligineo, tenui; ascis tereti-clavulatis, breviter stipitatis, paraphysatis, octosporis, 80-90 \approx 12; sporidiis distichis, fusoideis, rectis v. curvulis, 3-septatis, non constrictis, 12-15 \approx 2-2,5, hyalinis. 3440

Hab. in culmis Phragmitis communis, sociâ *Septoriâ arundinaceâ* et *Ascochyâ donacinâ*. — Dispositione et minutie peritheciolorum et parvitate sporidiorum mox distincta species.

85. **Metasphæria graminum** Sacc. Syll. II, p. 174 — Var. **culmicola**: ostiolo setuloso; sporidiis initio muco obvolutis, 16-18 \approx 4-5. — In culmis graminum in Belgio (WESTENDORP).

86. **Metasphæria nigro-tingens** Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 165. — Peritheciis sparsis, erumpentibus e matrice laticule denigrata, compresso-conoideis, 250-300 μ . diam., vertice obtuso, poro pertuso; ascis tereti-clavulatis, 75-100 \approx 17-20, breve et crasse stipitatis, apice rotundatis, octosporis; paraphysibus ascos æquantibus; sporidiis distichis, hyalinis, fusiformibus, inæquilateralibus v. curvulis, 10-13-septatis, loculo quinto v. sexto omnium crassiore, loculis fere omnibus guttulis duabus, parallelis ornatis, 38-50 \approx 7-8. 3441

Hab. in culmis vetustis *Moliniaæ cœruleæ*, Gomzè in Belgio.

87. ? **Metasphæria leptogiophila** (Minks) Berl. et Vogl. Add. Syll. 3442
pag. 158, *Leptorhaphis leptogiophila* Minks in litt. Winter in
Flora 1877, pag. 211, ? *Leptosphæria leptogiophila* Winter Die
Pilze II, p. 443. — Peritheciis gregariis, thallo omnino immersis,
in pagina inferiore vix prominulis, sphæroideis, ostiolo late per-
tuso, membranaceo-coriaceis, pallidis, sursum obscurioribus; ascis
cylindræis vel subclavatis, apice parum, basi valde attenuatis,
60-70 \approx 9-10; sporidiis late fusiformibus, utrinque acutis, inæquila-
teralibus, hyalinis, crasse 4-guttulatis (an demum 4-ocularibus?),
16-17 \approx 3-4; paraphysibus numerosis, filiformibus.

Hab. in thallo *Physmatis franconici* in Germania.

CERIOSPORA Niessl — Sacc. Syll. II, p. 184.

1. **Ceriospora Ulicis** Pat. in Rev. Myc. 1885, p. 153. — Peritheciis 3443
numerosis, gregariis, superficialibus v. epidermide tectis, atris, glo-
bulosis vel conoideis, apice ostiolatis; ascis cylindræis, basi atte-
nuatis, sursum rotundatis, 136 \approx 7-14; paraphysibus filiformibus,
ramosis cinctis, octosporis; sporidiis distichis, leniter curvulis, fu-
siformibus, uniseptatis, ad septa vix constrictis, crasse 4-guttula-
tis, utrinque ciliatis, 30-36 \approx 5-6 (excluso mucrone), hyalinis.

Hab. in ramis emortuis *Ulicis europæi*, Grand-Quévilly pr.
Rouen Galliæ (LETENDRE).

2. **Ceriospora montaniensis** (Ell.) Berl. Ic. fung. I, p. 29, t. 18, f. 3, 3444
Lophiostoma Ellis Journ. Myc. IV, p. 64. — Peritheciis sparsis v.
subseriatis, erumpenti-superficialibus, tenuissimis, 0,5-0,7 mm. d.,
rugulosis, ostiolo subtuberculoso, subinde subrimoso; ascis cylin-
dræis, 100-112 \approx 7-8 p. sp., filiformi-paraphysatis; sporidiis mo-
nostichis, ellipsoideis, lenissime curvis, medio constrictis, 3-septa-
tis, loculis binis mediis brunneis, extimis hyalinis, setulam rectam
6-8 μ . long., hyalinam gerentibus.

Hab. in caule emortui *Clematidis ligusticifoliæ*, Mon-
tana Amer. bor. (F. W. ANDERSON).

3. **Ceriospora? fuispora** (Duby) Sacc. *Sphæria fuispora* Duby in 3445
Klot. Herb. Myc. n. 1832, Grev. XIX, pag. 72. — Gregaria aut
elongato-seriata demum confluens, primo tecta, demum epidermide
disrupta emergens; peritheciis nigris, opacis, globoso-depressis et
etiam collapsis, nunc solitariis, nunc in series digestis et tunc dif-
formibus, ostiolo nullo; paraphysibus nullis; ascis claviformibus;

sporidiis 8 fusiformibus, utrinque attenuatis, virescentibus, 1-septatis, 2-serialibus.

Hab. ad caules emortuos Clematidis in Helvetia. — Affinis *S. Dulcamaræ*, a qua characteribus laudatis differt et etiam *S. Panacis* Auct. non Fries (quæ *Diplodia*). Duby l. c.

SPHÆRULINA Sacc. Syll. II, p. 186.

1. **Sphærulina islandica** Rostrup Islands Svampe p. 8. — Peritheciis 3446
gregariis, epidermide tectis, globoso-compressiusculis; ascis fusoi-
deo-clavatis, $70 \approx 8-9$; sporidiis cylindraceo-fusoides, 3-septatis,
hyalinis, 28-30 μ . long.

Hab. in caulibus Arabidis alpinæ in Islandia.

2. **Sphærulina Potentillæ** Rostrup Islands Svampe p. 11. — Perithe- 3447
ciis punctiformibus, gregariis; ascis sessilibus, saccato-clavatis, 38-
40 \approx 24-25, aparaphysatis, 6-8-sporis; sporidiis tristichis, obovato-
cylindricis, obtusis, distincte 4-septatis, hyalinis, 15-20 \approx 6.

Hab. in caulibus Potentillæ maculatæ in Islandia.

3. **Sphærulina subglacialis** Rehm in Hedwigia 1885, p. 243. — Pe- 3448
ritheciis dispersis, globosis, demum sessilibus, in epidermide dealbata
caulium, primitus immersis, subpapillatis, poro minimo pertusis,
fuscis, glabris, 0,2 mm. diam., in parenchyma fuscum contextis; ascis
crassis, 60 \approx 30, 8-sporis; sporidiis inordinatis, oblongo-ellipticis,
rarius clavatis, obtusis, rectis, 4-cellularibus, medio non constri-
ctis, hyalinis, 21-27 \approx 9-11; paraphysibus nullis.

Hab. ad caules putridos Trifolii pallescentis ad glaciem
æternam montis Ortler prope Suldën in Tirolia (Doct. REHM).

4. **Sphærulina Giliæ** Speg. F. Pat. n. 131. — Peritheciis in matrice 3449
arescente albo-griseis, sparsis, primo epidermide tectis, dein nudis,
lenticularibus, 120-150 μ . diam., atris, levibus, glabris, apice ostio-
lato-perforatis, membranaceo-coriacellis, contextu grosse celluloso-
parenchymatico, fuligineo; ascis cylindraceis v. cylindraceo-clava-
tis, antice obtuse rotundatis, postice in stipitem brevissimum, cras-
siusculum, nodulosum productis, 40-50 \approx 6-7, 8-sporis, aparaphy-
satis; sporidiis recte distichis, fusoides, utrinque acutiusculis, me-
dio 1-septatis leniterque constrictis, oculis medio septatis, supero
nonnihil brevioribus acutioreque, utrinque acutiusculis, 13-14 \approx 3,
hyalinis.

Hab. ad caules, folia, capsulas exsiccata, putrescentia Giliæ
arcuatæ in Gregory bay, Rio Callego, Rio S. Cruz Patagoniæ.
— Species facillime generi *Metasphæriæ* adscribenda.

5. **Sphærulina Boudieriana** Sacc. et Malbr. Fung. Gall. ser. V, n. 2167. 3450

— Peritheciis sparsis, epiphyllis rarius hypophyllis, globoso-depressis, 100-120 μ . diam. initio epidermide velatis, dein subsuperficialibus facileque secedentibus, denique umbilicatis, poro perexiguo; contextu minute celluloso, fuligineo; ascis rosulato-fasciculatis, crasse clavatis, 50-60 \approx 14-16, brevissime stipitatis, octosporis, paraphysatis; sporidiis 3-stichis, fusoideis, curvulis, utrinque acutiusculis, 25-30 \approx 4, 3-septatis, non constrictis, minute 6-8-guttulatis, hyalinis.

Hab. in foliis emortuis Scabiosæ silvaticæ, Brionne Galliæ. — Subinde adsunt asci sterilescentes paraphyses imitantes. Perithecia, hyphulis fuligineis sæpe basi cincta, ibique parasitatur *Trinacrium torulosum*.

6. **Sphærulina callista** Rehm — Syll. II, p. 188 — Var. **Vossii** Rehm 3451

in Voss Mat. Pilz. Krains X, p. 220. — Peritheciis sparsis, in foliis dealbatis, immersis, papilla conoidea obtusa protuberantibus, sphæroideis, atris, globosis, 300 μ . diam., contextu fusco; ascis ovoideis, 150 \approx 90, paraphysatis; sporidiis octonis, inordinatis, oblongis, obtusis, rectis, parte dimidia, superiore 2-, inferiore 3-locularibus, loculo secundo superiore omnium latissimo, hyalinis, granulis repletis, episporio crasso, 66 \approx 21.

Hab. in foliis siccis Campanulæ cæspitosæ, Grosskahlenberg pr. Laibach Carniolæ.

7. **Sphærulina Coriariæ** Passer. Diagn. F. N. III, n. 35. — Perithe- 3452

ciis sparsis v. subgregariis, tectis, minutis, subglobosis, atris, ostiolo acutiusculo epidermidem sublevantibus et perforantibus; ascis cæspitosis, paraphysatis, obovatis v. elongatis aut clavatis, basi breviter abrupte stipitatis, 35-63 \approx 12-15; sporidiis senis-octonis, fusiformibus vel subclavatis, subtristichis vel stipatis, 3-5-septatis, hyalinis, 12-15 \approx 4-5.

Hab. in ramis siccis Coriariæ myrtifoliæ, Rocca Prebalza pr. Berceto in agro parmensi Ital. bor.

8. **Sphærulina Camelliæ** Pass. Rev. myc. 1887, p. 145. — Perithe- 3453

ciis sparsis v. laxè gregariis, globosis, tectis, atris, ostiolo minuto vix emerso; ascis cylindræis, subclavatis, subsessilibus, paraphysatis, octosporis, 62-70 \approx 10-12,5; sporidiis distichis, subfusoideis, 3-septatis, medio leniter constrictis, septo medio magis distincto, guttulatis, 17,5 \approx 5.

Hab. in ramulis aridis Camelliæ japonicæ in frigidariis Parma. — Septa ope chloro-joduri zinci distinctiora fiunt.

9. **Sphærulina intermixta** (B. et Br.) Sacc. — Syll. II, pag. 187. — 3454

* **constricta** Starb. Ascom. Oeland p. 15, f. 5. — Peritheciis sparsis v. laxe gregariis, vix vel rarissime paralleliter seriatis, ramulos totos ambientibus, primitus tectis, dein epidermide plerumque lineatim fissa deliberatis poroque pertusis; ascis majoribus, 20-30 \times 7, semper medio magis constrictis, dimidia parte superiore latiore, 4-5-septatis, septo uno alterove longitudinali addito.

Hab. in ramis corticatis Rosæ in Oelandia.

10. **Sphærulina Pini** Pass. in Brun. Mat. myc. Saint. p. 18. — Pe- 3455

ritheciis subapproximatis, cortice nidulantibus, tectis dein suberumpentibus, minutis, globulosis, nigris, ostiolo papillato; ascis fasciculatis, aparaphysatis, obovato-fusoideis, 37-50 \approx 15-18, octosporis; sporidiis inordinatis, oblongo-clavatis, 3-5-septatis, hyalinis, 12,5 \times 2,5.

Hab. in ramis dejectis Pini silvestris, Pessines Galliæ.

11. **Sphærulina sambucina** Peck in 38 Rep. St. Mus. p. 106. — Pe- 3456

ritheciis minutis, numerosis, gregariis, inæqualibus vel irregularibus, rotundis, oblongis vel flexuosis, epidermide tectis, erumpentibus, poro vel rima angusta pertusis, atris; ascis clavatis v. subcylindræis, 75-120 \approx 12, aparaphysatis; sporidiis stipatis v. biseriatis, oblongo-clavatis, medio constrictis, 5-7-septatis, 22-30 \approx 7,5-8,5, hyalinis.

Hab. in ramis Sambuci canadensis, West Albany in America boreali.

12. **Sphærulina Staphyleæ** Pass. in Brun. Champ. Saint. V, p. 3. — 3457

Peritheciis approximatis, perexiguis, pustuliformibus, epidermide atrata tectis eique adhærentibus; ascis cito diffluentibus; sporidiis oblongo-fusoideis, 4-guttatis, hyalinis, non v. vix medio constrictis, 12-15 \approx 3,5, obscure 3-septatis.

Hab. in ramis emortuis Staphyleæ colchiæ, Saintes Galliæ. — Septa sporidiorum ope chloro-joduri zinci tantum manifesta.

13. **Sphærulina Acetabulum** (Berk.) Sacc. Sic nuncupanda *Læstadia Acetabulum* Sacc. Syll. n. 1625, nam sporidia 3-septata, 22 \approx 5; asci crasse clavati.

14. **Sphærulina Caricis** Pat. in Rev. Myc. 1886, pag. 82. — Peri- 3458

theciis sparsis, sub epidermide nidulantibus, ostiolo tantum prominente, minutis, nigris; ascis sessilibus, 45 \approx 9-12, pseudo-para-physatis; sporidiis fusiformibus, hyalinis, 3-septatis, ad septa non constrictis, 15 \approx 2-3.

Hab. in foliis siccis Caricis trichostylæ in Japonia.

15. **Sphærulina cetraricola** (Nyl.) Karst. Rev. Monogr. p. 171. Huc ducenda (teste Karsten l. c.) *Metasphæria cetraricola* Sacc. Syll. II, pag. 184.
16. **Sphærulina assurgens** (Cooke) Berl. et Vogl. Add. Syll. p. 418, 3459
Sphærella assurgens Cooke in Grevillea XV, p. 16. — Peritheciis sparsis, semiimmersis, globosis, demum subliberis, submembranaceis, atris opacis, pertusis; ascis clavatis, subsessilibus, aporphysatis, octosporis; sporidiis fusoidis, triseptatis, hyalinis, 20-24 \approx 4.

Hab. in frondibus vivis Trichomanis venosi, New Zealand Australasiæ (COLENZO).

17. **Sphærulina Todeæ** (Cooke) Berl. et Vogl. Add. Syll. pag. 159, 3460
Sphærella Todeæ Cooke in Grevillea XII, p. 85. — Sparsa, amphigena; peritheciis minimis, subglobosis, atris, semiemergentibus vix papillatis; ascis clavatis; sporidiis sublanceolatis, triseptatis, hyalinis, 12 \approx 2,5.

Hab. in foliis Todeæ hymenophylloideæ, Karori New Zealand.

HYPOSPILA Fr. — Syll. II, p. 189.

1. **Hyospila groenlandica** Rostr. Fungi Groenl. p. 561. — Peritheciis parenchymate folii immersis, utrinque epidermide bullatim inflata tectis, gregariis, rostro nigro, cylindræo, laterali; ascis exacte fusoidis, 8-sporis, 95-115 \approx 10-12; sporidiis anguste fusoidis, strictis, pluriguttulatis, 2-septatis, 48-52 \approx 4-5.

Hab. in foliis dejectis Salicis glaucæ in Groenlandia.

LASIOSPHÆRIA Ces. et De Not. — Sacc. Syll. II, p. 191.

1. **Lasiosphæria caudata** (Fuck.) Sacc. Syll. II, p. 200, Winter in Hedwigia 1885, pag. 99. — Sporidia bicellularia, parum curvata, cellula superiori suboblonga, cellula inferiori cylindrica, subrectangulariter curvata et acutata, fuscidula.
2. **Lasiosphæria breviseta** Karst. in Hedw. 1884, pag. 57. — Peritheciis gregariis vel aggregatis, ovoideis, superficialibus, rugulosis, ostiolo obtuso, vulgo obsoleto, pilis rigidis, inarticulatis, fusciscentibus, paucis, undique divergentibus, 150-200 \approx 15 (ad basim) obsessis, 400 μ . diam.; ascis pedicellatis, fusoides-clavatis, 78-105 \approx 8-10; sporidiis octonis, tri-multiguttulatis, chlorino-hyalinis, 32-45 \approx 2,5-3,5.

Hab. ad lignum vetustum Padi? in Mustiala Fennicæ. — *Lasio-sphæricæ caudatæ* et *Las. strigosæ* affinis. An huc *Las. tephro-tricha* Fr.?

3. **Lasio-sphæria stuppea** Ell. et Ev. in Bull. Wash. Lab. Nat. Hist. 3463
1884, pag. 4. — Peritheciis superficialibus, ovatis, gregariis, sub-carbonaceis, circiter 1 mm. altis, setis obscure brunneis vel stup-peo-coloratis, continuis, apice imperfecte denticulatis, 200 \approx 5-6, dense tectis, ostiolis obtusis, latis, 4-sulcatis; ascis 170-200 \approx 18-20, medio latioribus, attenuato-truncatis; paraphysibus granulosis, abundantibus, evanidis; sporidiis stipatis, cylindræis, curvis, obtusis, granulosis, centro crasse uninucleatis, pallide brunneis, 34-38 \approx 9-11.

Hab. in ramis emortuis Tsugæ Pattonianæ in Monte Paddo Amer. bor.

4. **Lasio-sphæria Romeana** Sacc. et Berl. Misc. Myc. II. p. 20. n. 86, 3464
tab. X, fig. 19. — Peritheciis gregariis, superficialibus, globoso-depressiusculis, $\frac{1}{2}$ - $\frac{2}{3}$ mm. diam. obtuse papillatis, atris, pilis cylindricis, subtortuosis, septatis, 200-220 \approx 6, fuligineis, subindivisis, laxiuscule vestitis; ascis tereti-clavatis, deorsum longe attenuato-stipitatis, 200 \approx 20 p. sporif., octosporis, non vel obsolete paraphysatis; sporidiis cylindricis, utrinque obtusiusculis, 55 \approx 6, deorsum curvatis, continuis, hyalinis.

Hab. in trunco putri prope Genève Helvetiæ (ROME). — Sub-affinis *Las. caudatæ*, differt vero sporidiis non caudatis, longioribus.

5. **Lasio-sphæria strigosa** (Alb. et Schw.) Sacc. Syll. II, p. 201, Winter in Hedwigia 1885, p. 99. — Asci elongati, cylindrico-fusifor-mes, deorsum longe attenuati, 8-spori, 120-130 \approx 14.
6. **Lasio-sphæria elegans** Mout. Ascom. Liège. II, p. 16. — Peritheciis 3465
sparsis supra corticem v. lignum superficialibus, atris, pilis concoloribus, simplicibus, pluriseptatis dense undique hirsutis, majusculis, coriaceis, subinde hyphis repentibus insidentibus; ascis elongato-fusoideis, stipitatis, 155 \approx 18; sporidiis distichis, demum stipatis, cylindricis, deorsum valde curvatis attenuatisque, zona basi autem leviter incrassatis, primo diuque hyalinis, continuis, tandem dilutissime fuscis et 1-septatis, 55-70 \approx 4-5.

Hab. in ramis putrescentibus Fraxini, Ulicis et in stipitibus Pteridis aquilinæ, Beaufays, Tilff, Forêt Belgii.

7. **Lasio-sphæria rhynchospora** Mout. Ascom. Liège. II, p. 183, t. I, 3466
f. 2. — Peritheciis atris globoso-ovatis, setis exiguis paucis (an

semper?) conspersis v. subglabris, ostiolo mammoso, $\frac{1}{2}$ mm.; ascis tereti-fusoideis, deorsum attenuato-stipitatis, 8-sporis, $150 \approx 15$; sporidiis primo di-tristichis, demum sæpe stipatis, cylindraceis, basi curvatis et valde attenuatis, imo apicè autem paullulum incrassatis, fuscescentibus, $50-55 \approx 5$, 3-septatis.

Hab. in ligno putrido, Beaufays Belgii.

8. **Lasiothæria subcaudata** Mout. Ascom. Lièg. II, p. 15, t. I, f. 1. 3467

— Peritheciis sparsis, liberis, basi adnatis, atris, globoso-ovatis, ostiolo obtuso, pilis simplicibus rigidis, pluriseptatis, pachydermaticis, brunneis, undique hirsutis, $\frac{1}{2}-\frac{2}{3}$ mm. diam.; ascis elongato-fusoideis, stipitatis, apice truncatis, octosporis, $140 \approx 14$; paraphysibus asco longioribus; sporidiis initio distichis, cylindraceis, sursum rotundatis, basi curvatis sensimque attenuatis, 3-septatis, fuscidulis, $42-48 \approx 4-5$.

Hab. in ramulis decorticatis putrescentibus, Beaufays Belgii.

— Affinis *L. caudatæ*. — Var. **sarmentorum** Mout. l. c.: a typo recedit sporidiis hyalinis, loculis 2-guttatis, pilis subhyalinis crassioribus. In sarmentis Vitalbæ, Beaufays Belgii.

9. **Lasiothæria subvelutina** E. et E. Journ. Myc. 1877, p. 117. — 3468

Peritheciis superficialibus, nigris, conico-hemisphæricis, $150-200 \mu$. diam., pilis raris, patentibus, rectis, parce septatis, obtusiusculis, nigris, supra subdiaphanis, $100-150 \approx 4-5$ vestitis; ascis clavato-cylindraceis, circ. $150 \approx 12$ aparaphysatis; sporidiis fusoideis, hyalinis, distichis, subcurvis, utrinque obtusiusculis, granulosis, dein 3-5-septatis, $22-30 \approx 4-4,5$.

Hab. in ligno putri Magnoliæ, Newfield Amer. bor. — Habitus *Chætosphæriæ atrobarbæ* et *Zignoellæ atrellæ*.

10. **Lasiothæria larvispora** Cooke et Mass. in Grev. XIX, p. 83. — 3469

Peritheciis superficialibus, laxè gregariis, $\frac{1}{2}-\frac{1}{3}$ mm. diam., globosis, indumento farinoso-floccoso, sulphureo obtectis, ostiolo nudo, pertuso; ascis cylindraceo-clavatis, 8-sporis; sporidiis elongatis, fusoideis, rectis v. flexuosis, $160 \approx 10$, primo guttatis, dein 15-19-septatis, hyalinis.

Hab. in cortice, Macedon, Victoria Australiæ.

11. **Lasiothæria crustacea** Karst. Symb. Myc. Fenn. XXVI, p. 28. 3470

— Peritheciis solito in crustam connexis, superficialibus, mycelio filamentoso dematiaceo, nigro vel fusco-nigro oriundis, ovoideis, poro pertusis v. in ostiolum obtusiusculum attenuatis, scabriusculis, atris, fragilibus, facile diffractis, inferne filamentis obsessis subiculi, superne glabrescentibus v. pilis paucis præditis, $0,4-0,8$ mm.

diam.; ascis 150-190 \approx 12-13 p. sp.; sporidiis distichis, cylindræis, utrinque obtusiusculis, deorsum vermiculato-curvatis, continuis, guttulis minutis præditis, hyalinis, 50-70 \approx 5-6.

Hab. ad lignum putrescens Betulæ in parœcia Tyrvis Fennia.

12. **Lasiosphæria Britzelmayri** Sacc. Syll. II, p. 192. — ***L. fennica** 3471

Karst. Rev. myc. 1887, p. 160. — Peritheciis subsparsis, sphæroideis v. conoideo-sphæroideis, vulgo conoideo-papillatis, setulis (alienis?) paucissimis, strictis, atris præditis, atris, 0,2-0,3 mm. latis; ascis subcylindræis, 100-105 \approx 7-8, octosporis; sporidiis distichis, fusoideo-bacillaribus, utrinque acuminatis, pluriguttulatis vel tenuiter 3-6-septatis, ad septa non constrictis, rectis, hyalinis v. lutescente hyalinis, 30-34 \approx 4-5; paraphysibus haud bene discretis.

Hab. in cortice putri Betulæ in prato mustialensi, Myllyperä Fennia (K. STARBAECK).

13. **Lasiosphæria annulata** Karst. Hedw., 1889. — Peritheciis sparsis, 3472

superficialibus, ovoideis vel sphæroideis, carbonaceo-atris, ostiolo obsoleto, superne setulis continuis, atris, diametrum perithecii superantibus, coalitis, anulum membranaceum, flabelliformem deflexum, laciniatum formantibus, coronatis, 0,1 mm. diam. vel paullo ultra; ascis fusoideo-clavatis, circ. 150 \approx 15-17; sporidiis octonis, tristichis, cylindræo-clavatis, rectis v. flexuosis, 13-17-septatis, chlorino-vel flavescente-hyalinis, 60-105 \approx 5-6; paraphysibus filiformibus, circ. 0,5 μ . cr.

Hab. in cortice vetusto in Minas Geraes, Sitio. — Forte typum novi generis sistit.

14. **Lasiosphæria Scopula** (C. et P.) Sacc., *Sphæria* C. et Peck 32 3473

Rep. p. 51 et Grev. XV, p. 82. — Peritheciis villosis, subglobo-sis, atris, $\frac{1}{5}$ mm. diam.; ascis lanceolatis, 8-sporis; sporidiis elongato-fusiformibus, 10-12-septatis, hyalinis, 70 \approx 4.

Hab. in ligno nudo, New York et New Jersey Amer. bor.

15. **Lasiosphæria intricata** (Peck) Sacc. 32 Rep. p. 51. — Perithe- 3474

ciis sparsis v. confertis, plus minus elongatis, obtusis, subventricosis, vulgo basi angustatis, nigricanti-brunneis, tomentoso-pilosis; ascis gracilibus, elongatis; sporidiis confertis, elongatis, linearibus, plus minus curvis v. flexuosis, viridulo-flavis, 40-50 μ . long.

Hab. in ligno dejecto et foliis in uliginosis Sandlake Amer. bor.

16. **Lasiosphæria vilis** Karst. et Har. Rev. Myc. 1890, n. 47. — Pe- 3475

rietheciis sparsis, superficialibus, ovoideis vel subsphæroideis, atris, epapillatis, subcarbonaceis, setulis diametrum perithecii subæquantibus, articulatis, flexuosis v. strictis, griseis v. fusciscentibus, sub

lente dilute brunneis, obsitis, circ. 0,3 mm. diam.; ascis fusoido-clavatis, 90-105 \approx 8-14; sporidiis octonis, filiformibus, rectis, guttulatis, hyalinis, 35-40 \approx 2-3; paraphysibus gracillimis.

Hab. ad squamas conorum Pini silvestris, Méry sur Seine, Aube Galliæ.

17. **Lasiosphæria Sphagni** G. Delacroix Bull. Soc. Myc. Fr. 1890, 3476 fig. IV. — Peritheciis superficialibus, atris, globosis, 240 μ . lat., poro circ. 35 μ . lat., primum præditis, demum late perforatis, mycelio repente hyphis fuscis tortuosis, septatis, 2,5 μ . lat.; ascis cylindræis, 8-sporis, 135 \approx 15; sporidiis oblongo-ovatis, utrinque rotundatis v. interdum parte inferiori paulum attenuatis, primum hyalinis, continuis, guttulatis, dein 1-septatis, dilute olivaceis, demum 3-septatis, ad septa leniter constrictis, fusco-olivaceis, plasmate granulato, 35-50 \approx 10-15; paraphysibus gracilescentibus, hyalinis, ramosis, pluriguttatis.

Hab. in foliis Sphagni, ad fontes Icaunæ, Saone et Loire Galliæ. — A *Leptosphæria muscicola* valde differt.

18. **Lasiosphæria emergens** (Schw.) Cooke Grev. XV, p. 82, *Sphæria* Schw. Sacc. Syll. II, n. 4296, Herb. Berk. n. 9651. — Sporidia continua, flexuosa, nucleata, hyalina, 30-32 μ . long. — *Sphæria cladosporiosa* Schw. — Syll. II, n. 4297 — et *Sph. setosa* Schw. — Syll. II, n. 4289 — teste Cooke Grev. XV, p. 82, sunt *Lasiosphæriae* species, sed (in herb. Berk.) sporidia nulla inventa.

ENCHNOSPHERIA Fuck. — Sacc. Syll. II, p. 205.

1. **Enchnosphæria Pinetorum** Fuck. Sacc. Syll. I, n. 205, Winter in Hedwigia 1885, p. 99. Huc sec. cl. Winter (Confr. Hedwigia l. c.) spectant *Bertia Querceti* et *Lasiosphæria scabra*. — Sporidia triseptata, cellula secunda paullo incrassata, 33-38 \approx 6-7.
2. **Enchnosphæria biformis** (Pers.) Sacc. in Rev. Myc. 1884, Schulz. 3477 Ill. fung. Slav. n. 556. — Sacc. Syll. II, p. 204, sub *Lasiosphæria*. — Peritheciis gregariis, superficialibus, globoso-conicis, atris, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., carbonaceis, ostiolo longiuscule papillato, setulis brevibus laxiuscule vestitis; ascis cylindræis, paraphysatis, subsessilibus, octosporis; sporidiis oblique 1-stichis, oblongo-ovoideis, 10 \approx 3-3,3, guttulatis, dein 3-septatis, vix constrictis, hyalinis.
- Hab.* in ligno Populi prope Vinkovce Slavoniæ, in Suecia et Britannia.
3. **Enchnosphæria? spinulosa** Speg. F. Puigg. n. 278. — Peritheciis 3478 epiphyllis, sparsis, globulosis, 200-250 μ . diam., fuscis, superne ap-

pendicibus pluribus, 5-10, sæpius 6 divaricatis stellato-patulis longiusculis, 250-300 \approx 30-50 canescentibus ornatis; ascis cylindraceutis, octosporis, 80 \approx 15-16, paraphysatis; sporidiis cylindraceutis, majusculis, 7-septatis, hyalinis, 35 \approx 6.

Hab. ad folia viva Sapindaceæ cujusdam in dumetis prope Apiahy Brasiliæ. — Jodi ops nulla; gonidia non visa. Species habitu satis lichenino sed a fungis nullo modo separanda.

ACANTHOSTIGMA De Not. — Sacc. Syll. II, p. 207.

1. **Acanthostigma affine** Sacc. et Berl. Miscell. Myc. II, p. 28, n. 123, 3479 tab. VIII, f. 1. — Peritheciis superficialibus, subsparsis, globoso-conoideis, minutis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., subcarbonaceis, atris, setulis cuspidatis, 100-150 \approx 4, rectis, fuligineis, septulatis parce vestitis; ascis tereti-fusoideis, stipitatis, parce paraphysatis, 110-120 \approx 12-14, octosporis; sporidiis distichis, fusoideis, 32-34 \approx 6, 6-guttatis v. pluri-granulosis, 1-3-septatis, hyalinis.

Hab. in ramis putridis decorticatis, Cervarese Ital. bor. — *Ac. perpusillo* affine, sed satis superque distinctum.

2. **Acanthostigma? imperspicuum** Speg. F. Pat. n. 133. — Peritheciis 3480 in superficie denudata sparsis v. laxissime gregariis, minutissimis, 150-180 μ . diam., e lenticulari conoideis, sæpe e latere compressiusculis, basi matrici insculptis, subcarbonaceis, atris, minute laxaque hirsutis, setulis pusillis, 18-30 \approx 2-3, atris, opacis, contextu indistincto, ostiolo minutissimo pertusis; ascis obclavatis vel subovato-ellipticis, antice rotundato-obtusatis, postice abrupte in stipitem brevem nodulosumque contractis, 25-30 \approx 10-12, aparaphysatis, octosporis; sporidiis recte vel oblique di-tri-stichis, elliptico-fusoideis, utrinque acutiusculis, 9-11 \approx 3-3,5, triseptatis, ad septum medium non v. vix constrictis, loculis duobus centralibus fumosis.

Hab. ad ramos emortuos decorticatos Fagi antarcticæ pro Cabo Negro Patagoniæ. — An melius generi *Chætosphæriæ* adscribenda?

3. **Acanthostigma punctiforme** Bomm. Rouss. Sacc. sp. nov. — Peri- 3481 theciis confertis, superficialibus, perexiguis, 90-120 μ . diam., primitus pilis brevibus, tortuosis, parce vestitis; ascis anguste clavatis, 8-sporis, sessilibus, 75 \approx 8-9; sporidiis distichis, fusoideo-cymbiformibus, 3-septatis, 4-guttatis, 18-20 \approx 4, hyalinis; paraphysibus gracilibus, brevioribus.

Hab. in ramis decorticatis Fagi silvaticæ, Poix Galliæ.

4. **Acanthostigma saccardioides** (E. et M.) Sacc. *Venturia saccar-* 3482

dioides Ell. et Mart. Am. Nat. 1884, p. 60. — Peritheciis hypophyllis, sparsis, brunneo-nigris, sursum collapsis, 150-200 μ . diam., setis 100-140 μ . longis vestitis; ascis obovatis, 4-6-sporis; sporidiis obovatis, triseptatis, medio constrictis, hyalinis, 15-16 \approx 3-3 $\frac{1}{2}$.

Hab. in foliis vivis Magnoliæ glaucæ, New Florida Amer. bor. — Verisimiliter asci, dum perfecte evoluti, octospori sunt.

5. **Acanthostigma nivale** (Str.) Sacc. *Chætomium nivale* Strauss in 3483
Sturm Deut. Flora III, 34. — Peritheciis globosis, undique pilis longis, simplicibus, continuis, divergentibus, strictis vestitis, nigris, hypothallo late effuso, nigro insidentibus; ascis clavatis, sursum rotundatis, basi attenuatis breviterque pedicellatis, tunica crassiuscula præditis, octosporis; sporidiis ovoideo-elongatis, biseptatis.

Hab. in foliis ramulisque e. g. pineis sub nive, in alpinis, Bavarix (KUMMER).

6. **Acanthostigma parasiticum** (Hartig) Sacc. *Trichosphæria parasitica* Hartig Hedw. 1888, p. 12. — Peritheciis globosis, minutis, apice pertusis, superne setulis divergentibus rigidulis vestitis, 0,1-0,25 mm. diam. et cum setulis 0,7 mm. diam.; ascis 50 μ . longis, facile evanescentibus; sporidiis fusoides rectis v. curvulis, fumoso-griseis, 15-20 μ . longis, continuis, mox 2-3-septatis.

Hab. in foliis Abietis pectinatæ, cui valde noxium, in silvis Bavarix.

7. **Acanthostigma? Hederæ** Pat. Journ. Bot. 1889, p. 259. — Epi- 3485
phyllum; mycelio atro-brunneo, hyphis ramosis septatis, moniliformibus intertexto, pelliculiformi secedente; peritheciis sparsis, globosis, 300-600 μ . diam., subastomis (?), brunneis, molliusculis, setulis 6-8 divergentibus, cuspidatis, brunneis, 3-4 μ . cr., perithecio æquilongis conspersis; ascis clavatis sessilibus, 8-sporis, 60 \approx 10, aparaphysatis; sporidiis cylindræis, rectis curvulisve, uno apice attenuatis, 3-septatis v. 4-nucleatis, 12 \approx 3, hyalinis.

Hab. in foliis Hederæ, Nantes Gallix (MENIER). — Habitus *Capnodii*. Verisimiliter aptius ad gen. *Zukaliam* referenda species.

8. **Acanthostigma minutum** (Fuck.) Sacc. Syll. I, p. 209. — Asci 80-90 \approx 16-17; sporidia 19-21 \approx 5-6.

9. **Acanthostigma guaraniticum** Speg. Fungi Guar. Pug. I, n. 228. 3486
— Peritheciis minutis, globosis v. globoso-lenticularibus, 150-200 μ . long., sparsis, epiphyllis, rarius hypophyllis, ostiolo minuto pertusis, superne setulis continuis, rectis, 100-150 \approx 4-5, fuliginæis, opacis, obtusiusculis, laxè vestitis, membranæis, contextu parenchymatico, pellucido, fuliginæo donatis, hypothallo tenuissime mem-

branaceo-subcrustaceo, e cellulis fibroso-radiantibus, ellipticis, crasse 2-guttulatis, sæpe angulosis, 4-10 \approx 5-5,5 olivaceis, pellucidis, composito insidentibus; ascis ovatis vel elliptico-saccatis, sursum attenuatis, apice rotundato-truncatis, crasse tunicatis, deorsum abrupte coarctatis, brevissime noduloseque stipitatis, 50 \approx 18-19, paraphysatis, 8-sporis; sporidiis polystichis, fusoido-clavulatis, 35 \approx 6-6,5, sæpius curvulis, 5-6-septatis, ad septa leniter constrictis, loculis 3 superis crassioribus, apice obtuse rotundatis, basi attenuato-acutatulis, hyalinis.

Hab. ad folia viva Eugeniæ speciei cujusdam in silva subvirginea Caa-guazù Brasiliæ.

10. **Acanthostigma longisetum** Karst. Rev. Myc. 1888. — Peritheciis 3487 sparsis vel subgregariis superficialibus, rotundatis, atris, circ. 0,1 lat., setulis divergentibus, decumbentibus, simplicibus, rigidulis, fuliginosis v. subatris, apicem versus attenuatis, flexuosis et pallidioribus, longissimis, usque ad 0,4 mm. long., ornatis; ascis cylindraceo-clavatis, vix stipitatis, 74-90 \approx 8-9; sporidiis distichis, verisimiliter elongatis et guttulatis v. 3-septatis.

Hab. ad caules putrescentes Urticæ dioicæ in horto mustialensi Fenniæ.

11. **Acanthostigma occidentale** (E. et Ev.) Sacc. *Venturia occidentalis* Ellis et Ev. Journ. of Myc. 1886, p. 43, *Chætomella* (?) *perforata* E. et E. in Journ. of Myc. 1885, pag. 153. — Peritheciis 3488 superficialibus, subglobosis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., apice poro minuto pertusis, setis atris, rigidis, continuis, diametrum peritheciolorum æquantibus ornatis, membranaceis, contextu crasse parenchymatico, subhemisphæricis; ascis subcylindraceis, circiter 75-100 \approx 7-10 (paraphysibus imperfectis?); sporidiis oblongo-fusiformibus, demum 3-septatis, medio v. quandoque etiam ad cetera septa constrictis, subhyalinis, 20-25 \approx 4-5.

Hab. in caulibus Cirsii discoloris, C. altissimi et Artemisiæ Ludovicianæ, Ames Jowa Amer. bor. — Var. **minor** Ellis et Ev. in Journ. of Myc. 1886, p. 43: Ascis minoribus, 50-60 \approx 6-8; paraphysibus gracilioribus; sporidiis 15 \approx 3, ovoideis, medio vix coloratis. In Artemisia Ludoviciana in Amer. bor.

HERPOTRICHIA Fuck. — Sacc. Syll. II, p. 211.

1. **Herpotrichia rhenana** Fuck. — Sacc. Syll. I, n. 3617 et Winter in Hedwigia 1885, p. 99. — Asci obclavati, deorsum stipitiformiter attenuati, 110-150 \approx 17-19; sporidia oblongo-fusoidea, medio con-

stricta, utrinque rotundata, primo bicellularia, hyalina, demum tri-septata, pallide fusca, sæpe curvula, 21-28 \approx 8.

2. **Herpotrichia callimorpha** (Auersw.) Winter in Hedwigia 1885, p. 99, 3489
Enchnoa callim. Auersw. in Fungi europ. 1238, *Chætosphæria callimorpha* Sacc. Syll. II, pag. 95, vix huc reducenda. — Peritheciis plerumque confertis, sarmenta longe lateque obducentibus, globosis, atris, vertice concavo, glabro, ceterum dense fusceque villosa-tomentosis, subiculo late effuso, ex hyphis aliis erectis, aliis repentibus, fuscis formato insidentibus; ascis cylindrico-subclavatis deorsum attenuatis, 8-sporis, 100-110 \approx 12; sporidiis fusiformibus, plerumque curvatis, 3-septatis, cellula secunda parum incrassata, utrinque acutiusculis, appendicula hyalina, brevi, conoidea præditis, 35-38 \approx 6, hyalinis.

Hab. ad sarmenta Rubi in Germania.

3. **Herpotrichia ferox** Winter Grevill. XV, p. 89. — Peritheciis densissime aggregatis, acervulos irregulares, pulvinatos, inæquales aterrimos, velutinos formantibus, subiculo ex hyphis repentibus, fuscis, torulosis ramosisque formato insidentibus, globosis, vertice rotundatis, demum collapsis et concavis, undique vertice excepto setis rigidis, crassis, acutis, opace atris, divergentibus, 360-370 μ . diam.; setis basi 10,5 μ . cr.; ascis anguste clavatis, vertice late rotundatis, deorsum in stipitem sublongum, torulosum attenuatis, 8-sporis, 142-180 \approx 19-20; sporidiis 2-3-stichis, elongato-fusoideis, curvulis, 8-9-septatis, ad septa vix constrictis, fuscis, cellulis extimis pallidioribus, interdum fere hyalinis, 40-60 \approx 9; paraphysibus tenuissime filiformibus, plerumque diffluis.

Hab. ad corticem putridum in Brasilia (ULE).

4. **Herpotrichia albidostoma** (Peck) Sacc., *Sphæria* 32 Rep. p. 51, 3491
 — Peritheciis numerosis, subconfertis, minutis, 300-400 μ . diam., subglobosis, tomento nigro-brunneo insidentibus obductisque, ostiolo nudo, subplano udo albido, sicco obscuriore; ascis cylindraceutis; sporidiis truncatis, oblongo-fusoideis, initio 1-septatis constrictisque 4-6-nucleatis, dein 3-5-septatis, hyalinis, 40-45 \approx 7-9.

Hab. in ramis emortuis Aceris spicati, Catskill Mount. Amer. bor.

5. **Herpotrichia macrotricha** (B. et Br.) Sacc. Syll. II, p. 213, Sterb. Bidr. Sver. Ascom. p. 8. — Filamenta subiculi et peritheciolorum multiseptata, 4-5 μ . cr.; asci 70 \approx 12; sporidia 25-28 \approx 6-8, disticha, primitus simplicia, pluriguttata, dein medio septato constricta, loculo utroque sæpissime guttulis 2 majusculis ornato.

6. **Herpotrichia mucilaginosa** Starb. et Grev. Bidr. Sver. Ascom. p. 8, 3492
t. I, f. 5. — Peritheciis solitariis, epiphyllis, e subiculo ramulos
foliaque conjungente, eminentibus, globosis, basi applanatis, sub-
astomis; hyphis subiculi fuscis, septatis, ramosissimis, 6-7 μ . lat.;
ascis cylindræo-clavatis, sursum rotundatis, deorsum noduloso-
pedicellatis, 84-100 \approx 15-17; sporidiis octonis, distichis, primo sæ-
pissime 4-guttatis, dein uniseptato-constrictis, ellipsoideis v. ellipsoi-
deo-fusoideis, superne latioribus, curvulis v. saltem inæquilateris,
annulo mucoso, bipartito, medio partito præditis, sine annulo 18-
25 \approx 6-8, cum annulo 21-30 \approx 10-12; paraphysibus gracilibus, ascos
superantibus.

Hab. in foliis emortuis Juniperi communis, Jemtland Sue-
ciæ (GREVILLIUS).

7. **Herpotrichia nigra** Hartig Hedw. 1888, p. 13, Bot. Centr. 1888, 3493
III, p. 187. — Mycelio atro-brunneo, late repente, haustoriis præ-
dito, tenui, folia viva occupante et dein necante; peritheciis globu-
losis, atris, 0,3 mm. diam. deorsum villo deflexo longo vestitis;
ascis elongatis, 76-100 \approx 12; sporidiis distichis, medio constrictis,
1- mox 3-septatis, 4-guttatis.

Hab. in foliis Abietis excelsæ, Juniperi communis,
J. nanæ in Germania et Norvegia. — «An potius *Enchnosphæ-
ria?*».

8. **Herpotrichia Molleriana** Wint. Cont. Flor. myc. Lus. Ser. VI, 3494
p. 9. — Peritheciis sparsis, hypophyllis, globosis, ostiolo papilli-
formi, pertuso, demum collapsis umbilicatisque, membranaceis, fu-
sco-atris, pilis brevibus, fuscis, flexuosis ubique obsitis, 250-260
 μ . diam.; ascis cylindræis, deorsum longe attenuatis, substipita-
tis, 8-sporis, 105 \approx 9-10; sporidiis distichis, elongato-fusifor-
mibus, parum curvatis, 7-septatis, ad septum medium profunde constrictis,
guttulatis, hyalinis, 30-33 \approx 5; paraphysibus copiosis, filiformibus.

Hab. in foliis vivis Quercus Suberis, Rica-fe' prope Bra-
yanca in Lusitania (MOLLER).

9. **Herpotrichia calospora** Winter in Rev. Myc. 1885, p. 207. — Pe- 3495
ritheciis laxè gregariis, superficialibus, subiculo tenuissimo, crusta-
ceo, atro-cinereo, effuso, maculas magnas, sæpe caulem ambientes et
longe lateque obducente efficientes ex hyphis ramosissimis, fuscis
valde intertextis, repentibus, torulosis, septatis, 4-5 μ . crassis for-
mato, setis sparsis, rigidis fuscis (an conidiiferis?), obsito insiden-
tibus, hemisphæricis, basi applanata, vertice obtusis, minutissime pa-
pillatis, atris, opacis, $\frac{6}{10}$ mm. latis; ascis amplis, late clavatis, bre-

viter stipitatis, apice late rotundatis, 8-sporis, 166-192 \approx 35-44; sporidiis subdistichis vel inordinatis, late fusoideis, utrinque acutiusculis, parum inæquilateralibus, medio subconstrictis, 3-septatis, olivaceis, 52-65 \approx 14-15; paraphysibus copiosis, tenuissime filiformibus conglutinatis.

Hab. ad caules culmosve siccos, Carapegua Paraguay Americæ australis.

10. **Herpotrichia antarctica** Speg. F. Fueg. n. 233. — Peritheciis li- 3496
gno insidentibus, cortice tectis eoque secedente nudis, superficialibus, laxe gregariis, globulosis, 200-250 μ . diam., atris, molliter fusco-lanuginosis, pilis gracilibus, 100-600 \approx 2, continuis, apice obtusiusculis, non ramosis, noduloso-verruculosis, fuligineis, dense intricatis vestitis, coriaceo-membranaceis, contextu opaco, atro, indistincto, ostiolo impresso, concolore pertusis; ascis cylindraceutis vel cylindraceuto-subclavatis, antice obtuse rotundatis, deorsum in pedicellum subbreviusculum crassum attenuatis, 55-75 \approx 7-8, 8-sporis, densiuscule paraphysatis; sporidiis recte distichis vel oblique monostichis, elliptico-obovatis, utrinque obtusiuscule acutatis, 14 \approx 4, 3-septatis, ad septum medium constrictulis, fuligineis, loculis 2 mediis non vel vix obscurioribus.

Hab. in ramis emortuis v. languentibus Chilitrichi ameloidis in Staten island Patagoniæ.

11. **Herpotrichia chætomioides** Karst. Hedw. 1888. — Peritheciis 3497
gregariis, superficialibus, rotundato-conoideis, undique setis longis decumbentibus obsitis, papilla minuta, pallida ornatis, atrofuscis, 0,2 mm. diam.; ascis cylindraceuto-clavatis, circ. 75 \approx 8; sporidiis distichis, fusoideo-bacillaribus, rectis v. subrectis, initio guttulatis, dein 3-raro 5-septatis, loculo tertio inflato, ad septa plus minus constrictis, chlorino-hyalinis, 24-30 \approx 3-4; paraphysibus coalescentibus.

Hab. in caulibus aridis Epilobii angustifolii prope Mustiala Fenniæ.

12. **Herpotrichia antarctica** Speg. F. Fueg. n. 222. — Peritheciis 3498
sparsis, ligno immersis v. basi tantum insculptis, e conoideo globosis, magnitudine ludentibus, 400-900 μ . diam., atris carbonaceis, glabris levibus, contextu indistincto, ostiolo crasso, acuto, rigido, sæpe deciduo, breviusculo instructis; ascis cylindraceutis, apice truncatis, crasse tunicatis, 1-foveolatis, deorsum breviter crasseque attenuato-pedicellatis, 130-150 \approx 6, 8-sporis; paraphysibus densissimis, filiformibus; sporidiis recte monostichis, cylindraceuto-ellipticis,

utrinque rotundatis, $15 \approx 4,5$, primo 3-blastis, dein 2-septatis, ad septa constrictis, loculis grosse 1-guttulatis, hyalinis.

Hab. ad ramos dejectos *Pernetiæ mucronatæ*, *Empetri rubri* et *Escalloniæ serratæ* non rara in Staten island Fuegiæ.

ZIGNOELLA Sacc. Syll. II, p. 214.

1. *Eu-Zignoella* Sacc.

1. **Zignoella jurana** Sacc. et Berl. Misc. Myc. II, p. 19, n. 83, t. X, 3499 f. 23. — Peritheciis superficialibus, subsparis, globoso-depressis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., denique collabescendo umbilicatis, atris, brevipapillatis; ascis tereti-clavatis, 90-100 \approx 14, breve stipitatis, paraphysatis, octosporis; sporidiis distichis, fusoideis, utrinque acutiusculis, 3-septatis, non v. vix constrictis, 20-22 \approx 6, hyalinis.

Hab. in ligno indurato *Loniceræ* in m. Jura Neuchâtel in Helvetia. — Affinis *Z. fallaci*, a qua peritheciis eximie collabentibus differt.

2. **Zignoella papillata** (Fuck.) Sacc. Syll. II, p. 219, Winter in Hedwigia 1886, p. 100, — Perithecia gregaria vel sparsa, superficialia e globoso breve conoidea, ostiolo distincto, papilliformi, atra, carbonacea, 260 μ . diam.; asci anguste cylindranei, deorsum longe attenuati, 108 \approx 7-9; sporidia irregulariter mono- vel subdisticha, oblongo-fusoidea, primitus continua, dein distincte uni- vel indistincte triseptata, 3-4 μ . crassa.
3. **Zignoella Haynaldii** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 3500 Ill. Fung. Slav. n. 937. — Peritheciis late et dense gregariis, in ligno denigrato superficialibus, globulosis, verruculosis, carbonaceis, atris, intus pallidis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., ostiolo minuto obtusiusculo; ascis clavulatis, stipitatis, paraphysatis, octosporis; sporidiis subtristichis, cylindraneo-fusoideis, utrinque rotundatis, 3-septato-torulosis, 20-22 \approx 4-5, hyalinis.

Hab. in ligno Carpini Betuli prope Vinkovce Slavoniæ — *Zignoellæ rhytidodi* affinis.

4. **Zignoella ramenticola** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 3501 Ill. Fung. Slav. n. 157. — Peritheciis dense gregariis, ligno, superficie denigrato, basi infossis, globoso-depressulis, $\frac{1}{5}$ - $\frac{1}{3}$ mm. diam., atris, levibus, ostiolo obtuso, conico, minute pertuso; ascis tereti-clavulatis, subsessilibus, paraphysatis, octosporis; sporidiis distichis

fusoideo-oblongis, 20 \approx 6, triseptatis, ad septa constrictis, 4-guttulatis, hyalinis.

Hab. in ligno putri dejecto Carpini prope Vinkovce Slavoniæ.

5. **Zignoella Ebuli** Malbr. et Brun. Champ. ajout. Saint. p. 244. — 3502

Peritheciis erumpentibus, subsuperficialibus, basi subinfossis, sparsis vel approximatis, nigris, carbonaceis, conoideo-subglobosis, exiguis, papillatis; ascis clavatis, octosporis, 90-100 \approx 12; sporidiis distichis, fusoideo-lanceolatis, utrinque subacutis, medio vix constrictis, rectis vel curvulis, 3-5-septatis, 6-nucleatis, 34-37 \approx 6, hyalinis.

Hab. in caulibus emortuis Sambuci Ebuli, Saintes Galliæ.

6. **Zignoella Campi-Silii** Sacc. — Syll. II, p. 219 — **metasphærioides** 3503

Sacc. in Mout. Not. Ascom. pag. 76. — Peritheciis gregariis, subglobosis, $\frac{1}{4}$ mm. immersis vel plus minus protuberantibus, ostioli conoideis; ascis paraphysatis, 8-sporis, teretibus, deorsum attenuato-stipitatis, 70-80 \approx 7; sporidiis distichis, fusoideo-oblongis, hyalinis, 14-16 \approx 4, medio septatis et constrictis, 4-guttatis.

Hab. in ramulis decorticatis Sambuci nigræ, Beaufays Belgii.

7. **Zignoella Bizzozzeriana** Cocc. et Mor. Enun. F. Bol. IV, pag. 12, 3504

t. III, f. 5-9. — Peritheciis in soros minutos dense aggregatis, subsuperficialibus, globulosis, leviter papillatis, 150-160 μ . diam., contextu subparenchymatico amœne cæruleo-brunneo; ascis teretibus, clavatis, 48 \approx 12-13, octosporis; sporidiis fusoideis, curvulis, 3-septatis, leniter constrictis, 16-18 \approx 4-6; paraphysibus cylindricis ascos æquantibus.

Hab. in sarmentis siccis Vitis viniferæ, Pontecchio agri Bonon. — «Fere absque dubio forma *Gibberellæ pulicaris*».

8. **Zignoella Hanburiana** Penz. et Sacc. F. Mort. p. 6, t. IV, f. 1. — 3505

Peritheciis sparsis, subsuperficialibus, majusculis, aterrimis, carbonaceis, $\frac{1}{3}$ mm. diam., hemisphæricis, ostiolo minutissimo, haud prominente; ascis clavato-cylindræis, breve stipitatis, 140-160 \approx 30-35, octosporis; paraphysibus numerosis filiformibus ascorum longitudine; sporidiis distichis, elliptico-fusoideis, utrinque attenuatis, triseptatis, ad septa leviter constrictis, 4-guttulatis, hyalinis, 35-38 \approx 10-12.

Hab. in ligno vetusto Oleæ sativæ, Mortola Ital. bor. (O. PENZIG).

9. **Zignoella herbana** Pass. Fung. nuovi, IV, n. 23. — Peritheciis su- 3506

perficialibus, minutis, atris, globoso-subdepressis; ascis clavatis, pa-

raphysibus copiosis longissimis, crebre nucleolatis obvallatis, $50 \approx 10$, 8-sporis; sporidiis subdistichis, fusiformibus, 3-septatis, hyalinis, endoplasmate granuloso, $17,5-20 \approx 5-6$.

Hab. in cortice vetusto Oleæ, Orvieto Italiæ.

10. **Zignoella sequanica** Sacc. et Malbr. Fung. Gall. ser. V, n. 2169. 3507

— Peritheciis laxè gregariis, globulosis, basi ligno leviter insculptis, superficialibus, nigris, intus evacuatis, rosellis, $\frac{1}{2}$ mm. diam., carbonaceo-molliusculis, hinc denique umbilicatis, ostiolo brevissimo obtuso; ascis teretiusculis, breve stipitatis, apice rotundatis, $130-140 \approx 16-18$, paraphysibus ramulosis obvallatis, octosporis; sporidiis oblique monostichis, fusoideis, utrinque acutiusculis, $32-36 \approx 7-9$, 3-septatis leniterque constrictis, hyalinis, faretis, initio strato mucoso obductis.

Hab. in ramis decorticatis emortuis dejectis Salicum ad ripas Sequanæ prope Rouen Galliæ. — Accedere videtur ad *Z. rhodobapham*, ex eo magis quod matrix leniter rubescat; sed differt quia sporidiis conspicue majoribus, ad septa constrictis, peritheciis dein umbilicatis etc.

11. **Zignoella salicicola** H. Fab. Sphér. Vaubl. II, p. 52, f. 25. — Pe- 3508

ritheciis sparsis, conoideis, opaco-atris, rugosiusculis, ligno putrido plus minus infixis, ostiolo prominulo, nunc brevi, nunc elongato, $\frac{1}{3}-\frac{1}{2}$ mm. diam.; ascis..... non visis; sporidiis oblongis, utrinque obtusis, hyalinis, 3-septatis, loculis 1-magni-guttatis, $24-30 \approx 6-7$.

Hab. ad lignum cariosum et semiputre Salicis albæ, Vauclose Galliæ.

12. **Zignoella Mori** (Fab.) Sacc. *Trematosphæria Mori* H. Fab. Sphér. 3509

Vaubl. II, pag. 53, f. 28. — Peritheciis superficialibus, nunc sparsis, nunc approximatis, ligno denudato et semiputri insidentibus, globosis, vertice planiusculis et poro minutissimo pertasis, $\frac{1}{2}-\frac{2}{3}$ mm. latis; ascis cylindraceo-clavatis, breve stipitatis, paraphysibus densis et longioribus obvallatis, 8-sporis, $100-120 \approx 12$; sporidiis subdistichis, hyalinis, fusoideis, curvulis, subtile 3-septatis, medio constrictis, loculo altero intermedio crassiori, $25-33 \approx 4-5$, articulo inflato, 7μ . lat.

Hab. ad lignum semiputre et cavum Mori albæ, Vauclose Galliæ. — Cfr. Berl. F. moric. t. 28, f. 7-11.

13. **Zignoella longispora** Speg. F. Fueg. n. 227. — Maculis late ef- 3510

fusis, indeterminatis, atris; peritheciis sparsis vel laxè gregariis, superficialibus, e globoso obovatis, $220-350 \mu$. diam., atris, glabris, carbonaceis, contextu indistincto, opaco, ostiolo minutissimo vix

papillulato donatis; ascis e fusoido subclavatis, antice rotundatis, non vel vix crasse tunicatis, late 1-foveolatis, deorsum brevissime crasseque attenuato-pedicellatis, 110-120 \approx 6-7, 8-sporis; paraphysibus paucis, filiformibus, crassiusculis, guttulatis; sporidiis di-stichis acicularibus v. fusoido-elongatis, non vel vix superne incrassatulis, sæpius subcurvulis, utrinque acutis, 50-60 \approx 2-4, grosse 6-guttulatis, hyalinis.

Hab. in ramis putrescentibus Berberidis ilicifoliæ in Port Tom, Schyring island Fuegiæ.

14. **Zignoella leptosperma** Speg. F. Fueg. n. 226. — Maculis nullis; 3511
peritheciis sparsis vel hinc inde 2-4-gregariis, globosis, 350-400 μ . diam., superficialibus, levibus, glabris, carbonaceis, atris, contextu indistincto, ostiolo impresso pertusis; ascis cylindraceo-fusoidis, apice truncatis, deorsum breviuscule ac tenuiter cuneato-pedicellatis, 150-206 \approx 10-14, 8-sporis, aparaphysatis; sporidiis oblique mono- v. di-stichis, cylindraceo-fusoidis, utrinque acutiusculis, 45-48 \approx 5-6, 6-blastis, hyalinis.

Hab. in ramis decorticatis putrescentibus Pernettiæ mucronatæ in Wallamatu Beagle channel Fuegiæ.

15. **Zignoella patagonica** Speg. F. Pat. n. 134. — Maculis indeter- 3512
minatis, albis, magnitudine ludentibus; peritheciis hinc inde laxiuscule 3-10-aggregatis, macularum centro insidentibus, ex ovoideo conoideis, 200-250 μ . diam., carbonaceis, atris, opacis, glabris, apice ostiolo submajusculo perforatis; ascis cylindraceo-subfusoidis, apice truncato-rotundatis, basi in stipitem breviusculum attenuato-productis, 90-110 \approx 9-12, 8-sporis; paraphysibus filiformibus, simplicibus; sporidiis distichis, subfusoidis, utrinque acutiusculis, 16-20 \approx 5-6, subinæquilateralibus, 3-septatis, ad septum medium non vel vix constrictis, hyalinis.

Hab. ad truncum denudatum vetustum Fagi antarcticæ in silvis prope Punta Arenas Patagoniæ. — Species plurimis characteribus Lichenibus accedens, iodi ope tamen nulla.

16. **Zignoella australis** Speg. F. Fueg. n. 224. — Peritheciis in ma- 3513
trice dealbata sparsis v. hinc inde laxè gregariis, e globoso conoideis, 180-200 μ . diam., vix basi insculptis, carbonaceis, atris, levibus; ascis cylindraceis, apice truncatis, crasse tunicatis, minute 1-foveolatis, basi breviter crasseque attenuato-pedicellatis, 75-80 \approx 6-7, 8-sporis, aparaphysatis, iodi ope nulla; sporidiis elliptico-elongatis, parce inæquilateralibus, 16-17 \approx 3-3,5, utrinque obtuse rotundatis, grosse 4-6-guttulatis, 3-septatis, ad septa non constrictis, hyalinis.

Hab. in ligno putrescente Fagi betuloidis in Staten island Fuegiæ.

17. **Zignoella adjuncta** Pass. Diagn. Fung. nuovi, III, n. 36. — Peritheciis gregariis v. subsparsis, globosis, opacis, rugosulis, minute papillatis, basi vix insculptis; ascis paraphysibus tenuibus subæquilongis stipatis, cylindricis, 65-75 \times 5-6, 8-sporis; sporidiis uniserialibus, fusiformi-elongatis, apicibus rotundatis, hyalinis, 3-septatis, ad septa crassiuscula, fuscidula non constrictis, 12-15 \times 4. 3514

Hab. in ramo fracido denudato Coryli Avellanæ, Vigheffio pr. Parma Ital. bor. — «Habitus *Melanommatis Pulveris-pyrii* (Pers) vel *Teichosporæ obducentis* Fuck.

18. **Zignoella translucens** Karst. in Hedw. 1888. — Peritheciis sparsis, innatis, demum vertice prominulis, rotundato-applanatis, glabris, opacis, nigrescentibus, humectatis rufescentibus, poro sat lato orbiculari pertusis, intus rufo-pallidis, 0,1-0,2 mm. lat.; ascis sessilibus, oblongatis v. elongatis, inæquilateralibus paullulumque curvatis, 40-51 \times 12; sporidiis octonis, di- v. tristichis, ovoideo-oblongatis, utrinque attenuatis, tenuiter 3-5-septatis, chlorino-hyalinis, 16-18 \times 5; paraphysibus filiformibus. 3515

Hab. in ligno Piceæ excelsæ pr. Vasam Fennicæ. — *Zignoellæ minutissimæ* affinis.

19. **Zignoella immersa** Karst. Symb. Myc. Fenn. XXVI, pag. 29. — Peritheciis gregariis v. subsparsis, rotundatis, innatis, dein vertice emergentibus, perforatis, subinde subpapillatis, atris, nudis circ. 0,2 mm. lat.; ascis clavatis, 160-170 \times 20; sporidiis distichis, fusoidis, rectis v. subrectis, 1-septatis, dein sæpe obsolete 3-septatis, ad septum medium constrictis, hyalinis v. luteolo-hyalinis, 36-40 \times 6-8; paraphysibus filiformibus 2 μ . cr. 3516

Hab. in assere pineo fabrefacto, intemperiiis exposito ad Muustiala Fennicæ.

20. **Zignoella Oudemansii** Karst. Rev. atque Synop. Ascom. fenn. pag. 42. — Peritheciis dispersis, erumpentibus, applanatis, depressis, atris, poro pertusis, 2-4 mm. diam.; ascis cylindræo-clavatis, 75-95 \times 9-12; sporidiis subdistichis, fusoides-oblongatis, 1-3-septatis, hyalinis, 18-22 \times 4-6; paraphysibus parcis. 3517

Hab. in ligno pineo prope lacum Susijärvi in Lapponia rossica.

21. **Zignoella paraguayensis** Speg. Fung. Guar. Pug. I, n. 229. — Peritheciis primo epidermide tectis, dein nudis, basi tantum matrici insculptis, 170-180 μ . d., lenticulari-conoideis, microthyriaceis; ostio- 3518

lo latiusculo perforatis, atris, glabris, levibus, coriacellis, contextu subindistincte parenchymatico, densiusculo, fusco vel cœrulescentifusco; ascis cylindraceo-obclavatis, antice rotundato-truncatis, crasse tunicatis, postice subcoarctatis, brevissime noduloseque stipitatis, 50-65 \approx 12-15, paraphysibus parvis filiformibus obvallatis, 8-sporis; sporidiis distichis, obovato-elongatis, 13-15 \approx 5-7, 3-septatis, ad septa plus minusve constrictis, loculis 2 superis crassioribus, rectis vel sæpius inæquilateralibus, hyalinis.

Hab. ad aculeos ramorum *Xanthoxyli* speciei cujusdam in silvaticis Paraguay Bras.

22. **Zignoella minutissima** (Karst.) Sacc. *Sphæria minutissima* Karst. 3519

in Hedw. 1883, pag. 41. — Peritheciis sparsis, prominulis, applanato-rotundatis, glabris, atris, opacis, minutissimis, latit. circ. 0,1 mm., demum ostiolo umbilicato impresso, irregulari, rotundato dehiscentibus sæpeque vertice collabentibus; ascis cylindraceo-clavatis, 66 \approx 11; sporidiis octonis, distichis, ovoideo-oblongatis, rectis, tenuiter 3-septatis, sæpe simplicibus v. 1-septatis, chlorinis, 9-11 \approx 4-5; paraphysibus numerosis, filiformibus, gracilibus, flexuosis, ramosis.

Hab. in ligno vetusto ad Aboam Fenniae. — Var. **clavispora** Karst. in Medd. af Societ. pro Faun. et Fl. Fenn. 11, 1884, p. 140. — Peritheciis laxè gregariis, erumpenti-superficialibus, lentiformibus, atris, opacis, demum ore latiusculo pertusis, 2 mm. circ. lat.; ascis cylindraceo-clavatis, subsessilibus, flexuosis vel curvatis, 40-66 \approx 9-12; sporidiis octonis, distichis, claviformibus vel ovoideo-elongatis, vulgo rectis, spurie tenuiter 3-septatis, chlorino-hyalinis vel hyalinis, 15-18 \approx 5-6; paraphysibus filiformibus, parce ramosis 2-2,5 μ . crass. ad lignum putrescens in par. Padasjoki Fenniae (EDW. WAINIO). — Var. **juniperina** Karst. l. c.: Peritheciis innatis, demum vertice nudatis; ascis 80-100 \approx 12; sporidiis 3-septatis, hyalinis, 14-22 \approx 7-8. In ligno *Juniperi communis* prope Mustiala Fenniae.

23. **Zignoella intermedia** Pass. in Martelli Flor. Bog. p. 144. — Pe- 3520

ritheciis superficialibus, subgregariis, globosis, atris, basi setis rigidis, brevibus cinctis; ascis clavatis, basi attenuatis, paraphysibus filiformibus obvallatis, octosporis, 60-100 \approx 15-20; sporidiis bi-tristichis, fusiformibus, crebre 9-pluriseptatis, hyalinis, rectis vel curvulis, utrinque acutis, 30-33 \approx 5-6.

Hab. in ligno carioso, Keren Abyssiniae (BECCARI). — Peritheciorum setis ad *Zign. macrosporam*, fructificatione vero ad *Z. dolichosporam* appropinquat.

24. **Zignoella pachyspora** Sacc. Bomm. et Rouss. in Bull. Soc. R. 3521
Bot. Belg. 1886, p. 173. — Peritheciis irregulariter gregariis, subinde confluentibus, nigris, subglobosis vel ovoideis, rugulosis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., ostiolo obtuso, parum prominulo; ascis cylindraceutis, octosporis; sporidiis hyalinis, oblongo-cymbiformibus, monostichis, 3-septatis, 4-guttulatis, 25-33 \approx 9-11.

Hab. in ligno Populi submerso, Genck Belgii.

25. **Zignoella Vincentii** Cooke in Grevill. XV, p. 81, *Sphæria ma-* 3522
crostomella? forma Cesati Fungi Born. — Superficialis, denudata; peritheciis subglobosis, atris, glabris, ostiolo lateraliter compresso, platystomoido (?); ascis clavatis, 8-sporis; sporidiis lanceolatis, rectis, hyalinis, uniseptatis, dein tenuiter triseptatis, 35 \approx 4.

Hab. in ligno denudato, Sarawak Borneo.

26. **Zignoella ignobilis** (Karst.) Sacc. *Sphæria ignobilis* Karst. in 3523
Hedw. 1883, p. 42. — Peritheciis gregariis, adnato-superficialibus, rotundatis, demum ore pertusis, nudis, atris, opacis, circ. 0.2 mm. lat.; ascis angustis; sporidiis elongatis, rectis, 1-septatis, subinde simplicibus v. tenuiter? 3-septatis, chlorinis, 11-16 \approx 2-4.

Hab. ad corticem vetustum, Olenji in Lapponia rossica.

27. **Zignoella hysterioides** Currey in Grevill. XVI, p. 32. — Peri- 3524
theciis gregariis, semiimmersis, atris, lateraliter compressis, hinc hysteriiformibus, ostiolo pertuso, poriformi; ascis clavatis; sporidiis fusiformibus, utrinque acutis, 1-5-septatis, hyalinis, 30-35 \approx 5.

Hab. in ligno putri Chislehurst Britannicæ.

28. **Zignoella Matthiolæ** Cooke in Grevill. XVI, p. 92. — Peritheciis 3525
sparsis vel gregariis, erumpentibus, dein subsuperficialibus, atris, pertusis; ascis clavatis; sporidiis fusiformibus, 5-septatis, hyalinis, 20 \approx 4.

Hab. in caulibus Matthiolæ incanæ pr. Marseilles Gallicæ (Roux).

2. *Zignoina* Sacc.

29. **Zignoella groenendalensis** Sacc. Bomm. et Rouss. in Misc. Myc. 3526
I, pag. 17. — Peritheciis gregariis, subglobosis, exiguis, $\frac{1}{6}$ mm., breve papillatis, carbonaceis, fragilibus, atris, basi hyphis fuliginosis filiformibus, tortuosis, cinctis, ceterum subglabris; ascis cylindraceutis, modice stipitatis, paraphysatis, octosporis, 110-120 \approx 7, apice lumine subbifoveolato; sporidiis monostichis, elliptico-oblongis, subinæquilateralibus, 16-18 \approx 6-7, 1-2-guttatis granulosisque, hyalinis.

Hab. in ligno fagineo putri, Groenendael prope Bruxelles in

Belgio. — Fructificatione ad *Ceratostomellam dubiam* admodum accedit, sed rostellum peritheci deest.

30. **Zignoella subcorticalis** Cooke in Grevill. XIV, p. 12. — Sparsa; 3527
peritheciis semiimmersis, pertusis, atris, opacis; ascis cylindricis, octosporis; sporidiis ellipticis, hyalinis, continuis, $12 \approx 4$.

Hab. in parte interna corticis emortui arborum in Australia.

31. **Zignoella sociabilis** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 3528
Ill. fung. Slav. n. 935. — Peritheciis gregariis, superficialibus, atris, carbonaceis, globulosis, superficie inæqualibus v. colliculosis, intus pallidis, circ. $\frac{1}{2}$ mm. diam., ostiolo obtusiusculo; ascis clavatis, deorsum attenuatis, $94 \approx 14-18$, aparaphysatis (?), octosporis; sporidiis subdistichis, tereti-fusoideis, curvulis, utrinque obtusiusculis, $32-40 \approx 5-7$, $4-6$ -guttatis, non constrictis, hyalinis.

Hab. in trunco decorticato Carpini Betuli, sociâ *Trichosphæriâ pilosâ* in Slavonia.

32. **Zignoella diaphana** (C. et Ell.) Sacc. — Syll. II, p. 220. — Var. 3529
gracilis Ell. et Kell. Journ. Myc. 1889, p. 144. — Peritheciis globoso-conicis vel subrostratis, quam in typo acutioribus, $120-240 \mu$. diam.; ascis $75-87 \approx 6-9$; sporidiis acute ellipsoideis, $3-4$ -nucleatis, hyalinis, $11-12,5 \approx 5-6$.

Hab. in trunco dejecto, Manhattan, Kansas Amer. bor. (KELLERMAN et SWINGLE).

33. **Zignoella dealbata** Cooke in Grevill. XV, p. 110. — Peritheciis 3530
maculis nigris insidentibus, ligno immersis, dein erumpentibus, conicis, nigris, 0,3 mm. diam., apice pertusis; ascis subcylindraceutis; sporidiis octonis, anguste ellipsoideis, continuis, hyalinis, $7 \approx 4$,

Hab. in ramis decorticatis, Frant, Sussex Britannicæ (E. G. BAKER).

34. **Zignoella sexnucleata** Starb. Ascom. Oeland. p. 15, f. 7. — Pe- 3531
ritheciis majusculis, basi insculptis, demum a matrice se solventibus, in ostiolum conicum attenuatis, atris, trans lucem rufescentibus, discretis v. sparsim gregariis, filamentis ostiolum versus concurrentibus contextis; ascis anguste cylindraceutis v. cylindraceuto-clavatis, sursum rotundatis v. subdetruncatis, paullum curvatis, subsessilibus, $160-180 \approx 11$, aparaphysatis; sporidiis octonis, submonostichis, oblongis, inæquilateralibus, obtusiusculis, initio guttulis plurimis irregulariter ornatis, dein $5-8$ -magninucleatis et spurie septatis, $25-28 \approx 7-8$.

Hab. in ligno carioso arborum frondosarum (*Quercus*?), Ottenbylund Oelandiæ.

35. **Zignoella obliqua** Rom. Fung. aliq. Suec. p. 24. — Peritheciis 3532
sparsis, erumpenti-superficialibus, molliusculis, vix carbonaceis, minutis, vix $\frac{1}{4}$ mm. diam., subsphæroideis, ostiolo papillato v. breviter subconoideo, demum sæpissime a latere vel oblique collapsis et tunc primo obtutu conoideis, glabris, levibus, atris; ascis anguste clavatis, deorsum attenuatis, 100-120 \approx 7-9; sporidiis fusoideo-allantoideis, utrinque obtusis, curvulis, hyalinis, 3-9-guttulatis, non constrictis, 25-40 \approx 4, continuis (jugiter?).

Hab. in cortice emortuo Salicis Upsaliæ Sueciæ. — A *Zign. collabente*, peritheciis sporidiorumque forma abunde diversa.

3. *Trematostoma* Sacc.

36. **Zignoella megalospora** (Fab.) Sacc. *Trematosphæria megalospora* 3533
H. Fab. Sphér. Vaubl. II, p. 52, f. 26. — Peritheciis superficialibus, sparsis v. parce coalescentibus, ligno denudato et putrescente insidentibus, globoso-cylindroideis, vertice obsolete umbilicatis vel deplanatis, poro hiante pertusis, $\frac{2}{3}$ latis; ascis clavatis, sensim in stipitem attenuatis; paraphysibus longioribus et filiformibus dense circumdatis, 8-sporis, 150-180 \approx 20; sporidiis subdistichis, hyalinis, fusoideis, rectis vel curvulis, 5-7-septatis, ad dissepimenta præsertim ad medium constrictulis, loculis dense guttulatis, subintermedio nonnihil crassiori, 60-65 \approx 65.

Hab. ad *Quercus pubescentis* annosos caudices, Vaocluse Galliæ.

37. **Zignoella Britzelmáyri** Sacc. Add. Syll. pag. 165, *Lasiosphæria Britzelmáyri* Sacc. Syll. II, p. 192, *Trematosphæria paradoxa* Winter in Hedwigia 1886, p. 102. — Sporidia elongato-fusiformia, deorsum magis attenuata, transverse 5-10-septata, hyalina, 28-35 \approx 3,5-4.

38. **Zignoella subvestita** (Ell. et Ev.) Berl. et Vogl. Add. Syll. p. 418, 3534
Sphæria subvestita Ell. et Ev. in Journ. of Myc. 1886, p. 100. — Peritheciis ligno vel cortice insidentibus, basi matrice insculptis, ovato-conoideis, $\frac{1}{6}$ mm. diam., $\frac{1}{3}$ mm. vel amplius altis, atris, rugosis, ostiolo levi, sublucido, brevi, cylindræo vel subconoideo, late pertuso, subtruncato ornatis; ascis clavato-cylindræis, 50 \approx 6-7, copiose paraphysatis, basi in pedicellum gracilem desinentibus; sporidiis fusiformibus, hyalino-luteolis, vix curvulis, 3-septatis, vix ad medium constrictis, 12-15 \approx 2 $\frac{1}{2}$ -3, stipato-distichis.

Hab. in ligno sicco putri *Vaccinii*, Newfield Amer. bor.

39. **Zignoella populina** Br. et Har. Rev. Myc. 1891, p. 16. — Peri- 3535

theciis sparsis vel gregariis, cortice subimmersis, globoso-conicis, leniter rugulosis, nigrescentibus, ostiolo papillato, $\frac{1}{2}$ mm. diam.; ascis clavatis, apice rotundatis, basi in stipitem plus minus longum attenuatis, 8-sporis, $92-108 \approx 18-20$ p. sp.; paraphysibus numerosis, filiformibus; sporidiis distichis, fusoideis, 5-7-septatis, obtusiusculis, rectis vel subcurvis, hyalinis, $32-44 \approx 8-10$, loculis 1-guttatis, 1-2 intermediis majoribus.

Hab. in cortice Populi, Méry-sur-Seine, Aube Galliaë. — *Habitus Trematosphæriæ errabundæ.*

40. **Zignoella fuegiana** Speg. F. Fueg. n. 225. — Peritheciis in ma- 3536
trice dealbata immersis, vix superne parce exsertis, e globoso-compressulis, $350-400 \mu$. diam., sparsis v. hinc inde laxè gregariis v. subseriatis, atris, glabris, superne membranaceis, contextu parum distincto, pallide olivaceo, ostiolo vix papillulato, crasso, obtuso, late pertuso, rotundo, carbonaceo donatis; ascis leniter obclavatis, antice rotundato-truncatis, crassiuscule tunicatis, late 1-foveolatis, deorsum rotundato-coarctatis, pedicello brevissimo, crasso, noduloso suffultis, $55-65 \approx 15-20$, 8-sporis; paraphysibus parcis, filiformibus; sporidiis di-tristichis, obovatis, superne obtusiusculis, inferne acutiuscule rotundatis, $19-20 \approx 6-7$, 3-septatis, ad septa non constrictis, hyalinis.

Hab. in truncis fagineis decorticatis putrescentibus pr. Ushuvaia et Slogget bay Fuegiæ.

41. **Zignoella querceti** Cooke et Mass. in Grevill. XVI, p. 91. — Pe- 3537
ritheciis sparsis gregariisve, ligno semiimmersis, lateraliter compressis, hysteriiformibus, atris, ostioli papilla demum decedente, pertusis; ascis clavato-cylindricis; sporidiis biseriatis, lanceolatis, 4-nucleatis, demum 3-septatis, hyalinis, $35 \approx 8$.

Hab. in ligno nudo quercino South Carolina Amer. bor. (Dr. CURTIS). — *Z. hysterioidi* affinis sed peritheciis majoribus et magis immersis.

42. **Zignoella antarctica** Speg. F. Fueg. n. 223. — Peritheciis in ma- 3538
trice canescenti-fuscescente sparsis vel gregariis, globulosis, $350-400 \mu$. diam., e latere nonnihil compressis, carbonaceis, glaberri-
mis, levissimis, basi insculptis, contextu indistincto, ostiolo crassiusculo, rigido, obtuso, umbilicato-scutato coronatis; ascis clavatis mox diffluentibus; paraphysibus filiformibus, densis obval-
latis; sporidiis elliptico-elongatis, utrinque rotundatis, $20-30 \approx 5$, triseptatis, ad septa non constrictis, loculis non vel guttulatis, hyalinis.

Hab. ad truncos putrescentes decorticatos Fagi betuloidis in Staten island Fuegiæ.

43. **Zignoella australica** Cooke et Mass. Grevill. XIX, p. 47. — Peritheciis sparsis, semiimmersis, subconicis, basi ligno insculptis, pertusis, atris, $\frac{1}{2}$ mm. diam.; ascis cylindraceis, substipitatis, 8-sporis; sporidiis arcte fusiformibus, 5-7-septatis, hyalinis, $40 \approx 4$, ad septa non constrictis.

Hab. in ligno nudo, Victoria Australiæ (Mrs. MARTIN).

WINTERIA Rehm — Syll. II, p. 225.

1. **Winteria tuberculifera** Ell. et Ev. Proc. Phil. 1890, pag. 240. — Peritheciis gregariis superficialibus, $\frac{1}{2}$ mm. diam., depresso-globosis, infra angustatis, tuberculoso-rugosis, siccis collabascendo cupulatis, nigris; ascis elongatis, $35-40 \approx 5-6$; sporidiis stipato-distichis, fusoideo-oblongis, hyalinis, 2-4-nucleatis (demum 1-3-septatis?), $6-8 \approx 2-2,5$.

Hab. in cortice Prunorum, London Canada Americæ borealis (DEARNESS). — Teste Wint. Pilz. II, p. 280, *Winteria* est hyalodictya.

CERATOSPHERIA Niessl — Sacc. Syll. II, p. 227.

1. **Ceratosphæria pusilla** (Fuck.) Sacc. Syll. II, pag. 227, Winter in Hedwigia 1886, p. 101. — Ascii cylindracei, deorsum parum attenuati, sessiles, $115-125 \approx 8-9$; sporidia 5-septata, $21-28 \approx 5-5,5$.
2. **Ceratosphæria rhenana** (Auersw.) Berl. et Vogl. Add. Syll. p. 164, *Gnomonia rhenana* Auersw. *Ceratostomella rhenana* Sacc. Syll. I, p. 409. Sec. cl. Winter (Confr. Hedwigia 1886, p. 101) sporidia sunt 3-septata, $18-21 \approx 5-5,5$; ascii cylindracei, in stipitem sublongum, tenuem attenuati, $130 \approx 9$ p. sp. 93-105.
3. **Ceratosphæria æruginosa** Rehm — Sacc. Syll. II, pag. 228, *Ceratosphæria immersa* Winter, delenda est (Confr. Hedwigia 1885, pag. 101), nam, teste auctore, eadem est ac *C. æruginosa*.
4. **Ceratosphæria mycophila** Winter in Hedwigia 1886, p. 101. — Peritheciis sparsis seu gregariis, superficialibus vel plus minusve immersis, demum liberis, globosis, nigris, glabris, nitidis, firmis, collo conico, acuto, perithecio duplo brevior, demum deciduo præditis, vertice collo destitutis, late pertusis, $300-370 \mu$. diam.; ascis elongato-cylindraceis, vertice subincrassato, late rotundato, deorsum stipitiformiter attenuatis, 8-sporis, $180-210 \approx 9$; sporidiis subdistichis, elongato-fusiformibus curvulis, 9-septatis, hyalinis, $38-44 \approx 3,5-4$; paraphysibus numerosis, tenuibus, filiformibus.

Hab. ad *Polyporum putridum* prope Arnstadt Thuringiæ.

5. **Ceratosphæria microdoma** E. et E. Journ. Myc. 1888, p. 78 (ex 3542 errore 66). — Peritheciis cortice vix tectis, dense gregariis, minutis, usque ad $\frac{1}{6}$ mm. diam.; ostiolo prominulo, tomento brunneo (an fortuito?) prædito, cylindræo, $\frac{1}{3}$ mm. long., aspero; ascis oblongo-cylindræis v. clavato-cylindræis, 50-55 = 7-8, subsessilibus, validiuscule filiformi-paraphysatis; sporidiis distichis v. confertis, oblongis v. clavato-oblongis, 3-septatis, ad septa leniter constrictis, olivaceo-brunneis, 11-12 = 2,5-3.

Hab. in cortice dejecto *Sambuci*? St. Martinsville, Louisiana Amer. bor. (LANGLOIS).

6. **Ceratosphæria æruginosa** Rehm — Sacc. Syll. II, pag. 238. — f. 3543
minor Rehm Ascom. Ill. n. 789. — Peritheciis parenchymaticis, viridi-flavis, rostris carentibus sed ostiolis plerumque punctiformibus, v. subelevato-clavatis; ascis tenuibus, clavatis, 8-sporis, 120 = 12; sporidiis distichis, bacillaribus, obtusis, rectis v. sæpius subcurvulis, initio 2-ocularibus, hyalinis, dein grosse 2-3-guttatis, demum 6-ocularibus, dilute brunneolis, 40 = 6; paraphysibus tenuibus, filiformibus.

Hab. in asseribus fabrefactis, Augsburg Germaniæ.

CRYPTODERIS Auersw. — Syll. II, p. 229.

1. **Cryptoderis oligotheca** Starb. et Grev. Bidr. Sver. Ascom. p. 9, 3544
 t. I, f. 6. — Peritheciis sparsis, immersis, globulosis, in ostiolum conoideum altitudine perithecii dimidio brevius, epidermidem oblique perrumpens, attenuatis, 150-200 μ . diam.; ascis perpaucis 1-4, ovoideo-ellipsoideis, deorsum amplioribus, sursum rotundatis, membrana incrassata, inæquilateralibus, sessilibus, 100-115 = 40-59; sporidiis octonis, in asco conglobatis, bipartitis, elongato-ellipsoideis, utrinque obtusis v. obtuse acutiusculis, velo mucilaginoso, lato, præditis, hyalinis, sine annulo 36-50 = 12-15, dein 2-septatis, æque hyalinis, demum extra ascos attenuatim ellipsoideis, utrinque rotundatis, 3-septatis, fuscescentibus, velo deliberatis, 56-60 = 19,5-25,5; paraphysibus nullis.

Hab. in caulibus aridis *Thalictri alpini* ad Storlien Jemtland (GREVILLIUS).

CALOSPORA Sacc. — Syll. II, p. 231.

1. **Calospora minuta** Bomm. Rouss. Sacc. sp. nov. — Stromate corticali, valsoideo, nigra linea haud limitato; peritheciis circinan-

tibus, distichis, rarius monostichis, globulosis, ostiolo brevi, obtuso, haud prominulo, epidermide non decolorata tectis; ascis octosporis, clavatis, breve stipitatis, apice obtusis, $90-105 \approx 15$; paraphysibus copiosis sed vix distinctis; sporidiis biseriatis, fusoides, obtusis, 1-septatis, valde constrictis, 4-guttatis, demum 3-septatis $24-27 \approx 6-7$, subinde 5-6-guttulatis, hyalino-chlorinis.

Hab. in ramulis junioribus, gelu tactis Fraxini excelsioris, Groenendael Belgii.

2. **Calospora alnicola** Cooke et Mass. XVI, pag. 47. — Peritheciis 3546 paucis, circinantibus, sub cortice elevato, ostiolis brevibus demum perforato nidulantibus; ascis clavatis, 8-sporis; sporidiis cylindraceis, obtusis, subincurvis, 3-septatis, hyalinis, $2,5 \approx 8$.

Hab. in ramis Alni autumnalis in horto Kewensi Britanniae.

3. **Calospora arausiaca** (Fabr.) Sacc. *Pseudovalsa arausiaca* H. Fab. 3547 Sphér. Vaubl. II, p. 56, fig. 35. — Peritheciis globosis, $\frac{1}{3}$ mm. latis, cortici infossis, 4-12 et ultra absque stromate aggregatis, acervulos valsiformes, irregulares, $\frac{1}{2}$ -1 mm. latos, peridermium pustulatim inflantes et epidermide fissa cinctos, efformantibus, vertice pustularum poro unico vel multiplici perforato; ascis clavatis, brevissime stipitatis 8-sporis, $125 \approx 25$; sporidiis subdistichis vel inordinatis, elliptico-fusoides, hyalinis, 3 et rarius 1-septatis, ad septa non constrictis, $45-55 \approx 12$.

Hab. ad ramos deciduos Quercus pubescentis, Orange (Arausio) Vaocluse Galliae. — *Calosporæ capsulari* affinis videtur.

4. **Calospora ambigua** Pass. Diagn. F. N. IV, n. 31. — Pustulis sub- 3548 corticalibus e peritheciis subcircinantibus formatis, ostiolis in disco atro, pustulas terminante vix visibilibus; ascis clavatis, aparaphysatis, 8-sporis, $125-150 \approx 17-18$; sporidiis fusiformibus, subdistichis, 3-septatis, chlorino-hyalinis, $35-45 \approx 7-8$.

Hab. in ramulis siccis dejectis Quercus, Collecchio in agro parmensi Ital. bor. — A *Pseudovalsa longipede* (Tul.) Sacc. cui affinis, ostiolis vix perspicuis sporidiisque crassioribus haud fucatis distinguenda videtur. An ob sporidia chlorino-hyalina (pale green), *Valsa arcuata* Curr. Linn. Trans. XXII fig. 167 huc ducenda?

Sect. 8. Dictyosporæ.

PLEOMASSARIA Speg. — Syll. II, p. 239.

1. **Pleomassaria Kirkiana** (Linds.) Sacc. *Sphæria* Linds. Notes on 3549 some Afr. Lich. and Fung. p. 380, t. V, f. 6 in Trans. Bot. Soc.

vol. VIII. — Peritheciis cortice immersis, subglobosis, apice applanatis, ostiolo destitutis; sporidiis distichis, pallide brunneis, plerumque 7-septatis, interdum probabiliter septo longitudinali præditis, loculis sæpius seriatim 3-guttatis, 35-40 μ . long.

Hab. in ramulis, sociâ Verrucariâ epidermidis var., Angola Africæ orient.

KARSTENULA Speg. — Syll. II, p. 340.

1. **Karstenula Philadelphi** Oud. Contr. Mycol. XIII, p. 32. — Peritheciis crassiusculis, ostiolo albido; ascis 105 \approx 18, paraphysatis; sporidiis octonis, oblongis, melleis, transverse 7-septatis, ad septa constrictis, loculis polaribus extus rotundatis, indivisis, reliquis disciformibus, septo longitudinali æqualiter divisus. 3550

Hab. in cortice ramorum Philadelphi coronarii, Loosduinen Hollandiæ (DESTREE).

2. **Karstenula dumorum** Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 158, tab. IV, fig. 10. — Peritheciis gregariis, sub peridermio pustulatim elevato nidulantibus, depressis, $\frac{1}{2}$ mm. diam., ostiolo brevior, denudato, albido-pruinoso; ascis cylindræis, paraphysatis, breve et crasse stipitatis, octosporis, 160-170 \approx 9-10, p. sp. 140-155; sporidiis oblongo-ellipsoideis, utrinque obtusis, vulgo 3-septatis, ad septum medium constrictis, loculis intermediis septulo longitudinali divisus, 19-24 \approx 7,5-8,5, fuscis. 3551

Hab. in ramis exsiccatis Pruni spinosæ et Coryli, Dolembreux, Beaufays in Belgio.

PLEOSPORA Rab. — Sacc. Syll. II, p. 241 *).

I. *Eu-Pleospora* Sacc.

1. Sporidia sub-3-septata.

1. **Pleospora calida** Penz. et. Sacc. Funghi Mort. p. 7, t. IV, f. 2. — Peritheciis laxè gregariis, epidermide tectis dein prorumpentibus, globosis, haud papillatis, contextu parenchymatico, nigro; ascis clavatis, breviter stipitatis, crasse tunicatis, 110-140 \approx 20-23; paraphysibus numerosis, deliquescentibus; sporidiis subdistichis, 3552

*) Quoad genera *Pleosporam*, *Clathrosporam* et *Pyrenophoram* cfr. optimam eorum monographiam cl. prof. A. N. Berlese tabulis eximiis illustratam (Firenz. 1888). Species tantum novas ibi datas hic refero; species reformatas v. deletas videas l. c.

ellipticis, triseptatis, ad septa leniter constrictis, cellula una alterave longitudinaliter divisa, brunneolis, 22-26 × 11-14, muco hyalino, evanido cinctis.

Hab. in squamis exsiccatis *Dracænæ* indivisæ, Mortola in Italia boreali (O. PENZIG).

2. **Pleospora pezizoides** Cesati. Cfr. Hedw. 1885, pag. 262. — Peri. 3553
 theciis sparsis, quippe sed passim distincte seriatis, quia præcipue nervis foliorum prominentibus impositis, subcutaneis, erumpentibus, vertice ad maturitatem depresso, fere patellari, poro pertuso, nigris, opacis, diametro 1 mm., haud raro minoribus sterilescensibus; ascis facile diffluentibus, non observatis; sporidiis primitus navicularibus obsolete 3-septatis, 30 ≈ 8, dein leviter soleiformibus, altero polo obtuso, altero breviter attenuato, viridulis, pluri-septatis, incomplete muriformibus, 30 ≈ 10-12.

Hab. in foliis vetustis *Dracænæ* australis in horto botanico Neapolitano Ital. mer. (CESATI).

3. **Pleospora gummipara** Oud. in Hedwigia 1883. — Peritheciis in 3554
 propinquitate acervulorum *Corynei gummipari* in corticis parenchymate libere nidulantibus, aterrimis, glabris, perfecte globosis, $\frac{1}{6}$ - $\frac{1}{4}$ mm, diam., contextu membranaceo, conidia pauca coryneoida sessilia nonnunquam gerentibus; ascis aparaphysatis, oblongo-ovatis, curvatis, brevissime stipitatis, 90 ≈ 18-20, octosporis; sporidiis distichis, triseptatis, septulo unico longitudinali, et tum 6-ocularibus, divisis, 24 ≈ 12, ovoideis vel p. m. obovatis, medio ut plurimum profundius, ad altera septa minus constrictis, obscure fuscis, in eodem asco non semper omnibus rite evolutis.

Hab. in rimis grumulosis *Acaciæ* cujusdam gummiferæ ex Senegal et Arabia.

4. **Pleospora lactucicola** Ell. et Ev. in Journ. Myc. 1888, p. 64. — 3555
 Peritheciis sparsis, suberumpentibus, depresso-hemisphæricis, 175-200 μ . diam.; ostiolo papilliformi; ascis clavato-cylindræis, 90-100 ≈ 10-12; sporidiis oblique 1-stichis v. raro supra subdistichis, oblongis, subconstrictis, 3-septatis, loculis mediis septo longitudinali divisis, utrinque subacutis et subobliquis, 14-16 ≈ 6-7.

Hab. in caulibus dejectis *Lactucæ canadensis*, Newfield, New Jersey Amer. bor. — *P. Bardanæ* affinis sed peritheciis minoribus, sporidiis minoribus et saturatius coloratis dignoscenda.

5. **Pleospora mendax** (De Not.) Sacc. *Sphæria mendax* De Not. Comm. 3556
 pag. 484. — Sparsa, superficialis; peritheciis minutis, e basi sphæroidea, in verticem obtuse mammatum tenuatis, osculo minuto,

hiantibus, carbonaceis, fragilibus, atris, superne papuloso-scabridis, basi fibris dematiaceis, copiosis hirtis; ascis grandibus, e basi tenuata cylindræis, octosporis; paraphysibus, filiformibus, flaccidis; sporidiis grossis, oblongis, 4-locularibus, ad medium sæpe constrictis, loculo uno alterove ad longitudinem oblique diviso, fuligineo-lutescentibus.

Hab. in foliis marcescentibus *Saxifragæ bryoidis*, M. Turlo Italia boreali (CARESTIA).

6. **Pleospora Cassiæ** E. et Ev. in Journ. of Myc. 1886, pag. 41. — 3557

Peritheciis $\frac{1}{4}$ mm. diam., epidermide pustulatim inflata, non nigrescente, ostiolo papilliformi perforata tectis, demum collapsis; ascis subcylindræis, basi abrupte contractis, 75-80 \approx 10-12; sporidiis distichis, luteo-brunneis, oblongo-ellipsoideis, triseptatis, ad medium constrictis, leniter curvulis, loculis uno vel duobus intermediis septo longitudinali divisus.

Hab. in caulibus emortuis *Cassiæ*, Houston, Texas Amer. bor., sociâ *Leptosphæriâ cassiæcolâ* (H. V. RAVENEL).

7. **Pleospora diaportheoides** Ell. et Ev. Proc. Phil. 1890, p. 238. — 3558

Peritheciis sparsis, depresso-hemisphæricis, circ. 200 μ . diam., erumpenti-superficialibus, ostiolo valido, cylindræo; ascis clavato-cylindræis, 75-85 \approx 12-15, valide paraphysatis; sporidiis subdistichis, oblongo-ellipsoideis, flavo-brunneis, 3-septatis, loculis uno v. pluribus longitudinaliter 1-septatis, ad septa non constrictis, 14-18 \approx 7-8.

Hab. in caulibus vetustis *Petroselini*, Newfield, New Jersey America boreali.

3. Sporidia sub-4-septata.

8. **Pleospora Sparganii** Cooke in Grevill. XIX, p. 8. — Peritheciis 3559

sparsis, parenchymate immersis, epidermide tectis, minusculis, globosis, minute papillatis; ascis clavatis; sporidiis distichis, lanceolatis, 3-4-septatis, constrictis, loculo medio longitudinaliter diviso, flavido-brunneis, 30 \approx 8.

Hab. in *Sparganio*, N. Wootton Britannia.

9. **Pleospora alpina** Rostrup Islands Svampe p. 7 (1885). — Perithe- 3560

ciis subgregariis, sphæroideo-conoideis, siccis corrugatis, atris, nitidis; ascis 70-80 μ . long.; sporidiis flavis, oblongis, utrinque acutiusculis, 4-septatis, loculis intermediis uno vel binis longitrorsum 1-septatis, 20-26 \approx 6-7, sæpe inæquilateralibus; paraphysibus filiformibus.

Hab. in caulibus *Viscariæ alpinae*, Kalmanstunga Islandiæ.

10. **Pleospora quadriseptata** Cooke et Harkn. in Grev. XIV, p. 10. 3561
 — Peritheciis subgregariis, convexis, atris, nitidis, initio epidermide velatis, parvulis; ascis clavatis, octosporis; sporidiis subellipticis, distichis, quadriseptatis, vix constrictis; cellulis una alterave longitudinaliter divis, brunneis, 20-22 \approx 8.

Hab. in scapis *Leucoji* in California (HARKNESS). — Affinis *P. Asperulæ*.

11. **Pleospora gallegensis** Speg. F. Pat. n. 144. — Peritheciis in matrice canescenti-arescente sparsis, parenchymate innatis, subepidermicis, lenticulari-convexis, 180-200 μ . diam., ostiolo papillulato, epidermidem perforante, non v. vix prominulo donatis, atris, glabris, coriaceo-membranaceis; contextu dense parenchymatico, fuligineo-atro; ascis mox diffluentibus, non visis; sporidiis ellipticis v. ovoideis, inferne acutiusculis, superne obtusiusculis, 16-20 \approx 8-9, 4-septatis, ad septa constrictiusculis, oculis centralibus septo altero longitudinali percursis, dilute fusco-brunneis.

Hab. ad folia dejecta putrescentia *Stipæ* cujusdam secus Rio Gallego Patagoniæ.

12. **Pleospora Shepherdæ** Peck 40 Rep. p. 71. — Peritheciis sparsis, 350-450 μ . lat., epidermide tectis, erumpentibus, nigris; ascis cylindræis, 150-200 \approx 15; sporidiis monostichis, oblongis, plerumque 3-septatis, raro 5-septatis, longitudinaliter 1-2-septatis, medio constrictis, coloratis, 20-25 \approx 7,5-10.

Hab. in ramis *Shepherdæ* canadensis, Port Henry Amer. bor.

3. Sporidia sub 5-6-septata.

13. **Pleospora abbreviata** Fuck. Reis e nach Nordpolarm. III, et Oudemans Contr. Fl. Myc. Now Seml. p. 152, tab. II, fig. 8. — Peritheciis sparsis, demum subliberis, aterrimis, pro ratione minutis, globoso-conicis; ascis oblongo-ovatis, stipite laterali, brevi, 8-sporis, 88 \approx 34; sporidiis stipatis, oblongo-ovatis, inæqualiter didymis, medio constrictis, 5-septatis, cum septis longitudinalibus, primo aureis dein fuscis, 24 \approx 12.

Hab. in calycibus et leguminibus exsiccatis *Phacæ* frigidæ, Nowaja Semlja.

14. **Pleospora Patella** H. Fab. Sphér. II, pag. 67, f. 50. — Peritheciis sparsis, fibrillis corticalibus obtectis dein nudis, deplanato-globosis, mox vertice collabascente patellariformibus, subtile papillatis $\frac{1}{3}$ mm. latis; ascis clavatis, breve et crasse stipitatis, aliis

4-sporis, $72 \approx 16$, aliis 8-sporis, $90-100 \approx 12-16$; sporidiis faretis, in ascis 8-sporis distichis et in 4-sporis oblique monostichis, fusoides hinc crassioribus, illinc angustioribus, 5-6-septatis, medio constrictulis, luteis; septulis longitudinalibus 1-3 vel nullis, $22-27 \approx 7-10$.

Hab. ad caules exaridos Rutæ montanæ et Linariæ striatæ, Vaucuse Galliæ. — *Pleosporæ vaganti* subaffinis.

15. **Pleospora misera** Speg. F. Fueg. n. 256. — Peritheciis sparsis, 3566 subsuperficialibus, primo epidermide velatis, dein nudis, lenticulari-hemisphæricis, $200-250 \mu$. diam., coriacellis, atris, glabris, contextu parenchymatico, fuligineo, ostiolo latiusculo impresso pertusis; ascis cylindræis vel cylindræo-subclavatis, $65-80 \approx 18-20$, antice rotundato-subtruncatis, crassiuscule tunicatis, non foveolatis, 8-sporis, aparaphysatis; sporidiis distichis, ellipticis, utrinque obtusiusculis, $20-25 \approx 10$, horizontaliter 5-rarius 4-septatis, loculis 2 internis septo altero verticali, continuo divisis, rectis v. leniter inæquilateralibus, subfuligineis.

Hab. in scapis emortuis putrescentibus Osmorrhizæ chilensis pr. Iandagaia Fuegiæ.

16. **Pleospora antarctica** Speg. F. Pat. n. 148. — Peritheciis sparsis, 3567 e conoideo globosis, $250-300 \mu$. diam., superne tantum matrice exsertis, atris, ostiolo, setulis conico-cylindræis, $40 \approx 3$, atris, opacis coronatis, ceterum glabris, levibus, subcarbonaceis, contextu opaco indistincto; ascis cylindræo-subclavatis, apice subtruncato-rotundatis crasseque tunicatis, basi in stipitem brevem crassiusculumque productis, $70-75 \approx 9-10$, 8-sporis, paraphysibus paucis, crassiusculis, guttulatis obvallatis; sporidiis recte distichis, elliptico-subclavulatis, sæpius nonnihil inæquilateralibus, $14-16 \approx 5-6$, medio 1-septato-constrictis, loculo supero crassiore obtusioraque 1-rarius 2-horizontaliter et 1-verticaliter septato, infero acutiusculo graciliore 2-horizontaliter, non v. 2-verticaliter septato donatis, primo flavidis, dein obscure fuligineis.

Hab. ad folia emortua putrescentia Azorellæ cujusdam in Gregory bay Patagoniæ.

17. **Pleospora magellanica** Speg. F. Pat. n. 146. — Peritheciis sparsis 3568 v. laxe gregariis, immersis, ostiolo papillulato tantum matricis superficiem attingente non v. vix exserto donatis, globosis, $200-230 \mu$. diam., atris, glabris, subrugulosis, subcarbonaceo-membranaceis; contextu parenchymatico, subopaco, atro; ascis cylindræis, pachydermaticis, antice obtuse rotundatis, postice abrupte in

pedicellum brevissimum crassumque desinentibus, 80-95 \times 20, paraphysatis, 8-sporis; sporidiis recte distichis v. oblique monostichis, elliptico-obovatis, 25-28 \times 10-14, non v. vix subinæquilateralibus, medio 1-septatis non v. vix constrictis, loculo superiore 3-horizontaliter, 2-verticaliter septato (septis alternis), infero acutiore sæpius 2-horizontaliter et 1-verticaliter septato, primo flavis, dein opace fuligineis.

Hab. ad folia emortua Azorellæ trifurcatæ in Gregory bay Patagoniæ.

18. **Pleospora globularioides** (Cr.) Sacc. Syll. II, p. 260, Celotti Mic. Montp. pag. 35. — Asci 95-100 μ . long.; sporidia 22-25 \approx 9-12. In foliis Abietis Montpellier.

19. **Pleospora Aucubæ** (West.) C. De Not. — Syll. II, p. 259 — var. 3569 **gallica** Bruu. Champ. Saint. 1887, p. 429. — Peritheciis globosis, nigris, sparsis, magnitudine media, tectis, dein erumpentibus et sub-superficialibus, macula oblonga, griseolo-brunnea, brunneo-marginata insidentibus; ostiolo pertuso, papillato; ascis cylindraceo-clavatis, 8-sporis, 75-80 \approx 17-18; sporidiis distichis, raro oblique monostichis, ellipsoideis v. oblongis, interdum medio constrictis, 5-septatis, muriformibus v. longitudinaliter 1-septatis, 20-25 \approx 8-10, flavido-fuligineis.

Hab. in foliis languentibus Aucubæ japonicæ, Saintes Galliæ.

20. **Pleospora Triglochinis** Har. et Br. in Rev. Myc. 1890, n. 47. — 3570 Peritheciis sparsis, subepidermicis, nigris, punctiformibus, $\frac{1}{5}$ - $\frac{1}{4}$ mm. diam.; ascis clavatis, sessilibus v. breviter stipitatis, 8-sporis, 90-130 \approx 28-32; paraphysibus crassis, septatis; sporidiis distichis, ovoideo-oblongis, 5-septatis, ad septa constrictis, muriformibus, flavis, 32-36 \approx 14-16.

Hab. in caulibus et foliis emortuis Triglochinis palustris, Clermont-Ferrand (HÉRIBAUD).

21. **Pleospora Typhæ** Pass. in litt. Brunaud Liste Sphærops. p. 20. 3571 — Peritheciis sparsis, punctiformibus, primo tectis dein liberis, atris; ascis clavatis, non paraphysatis, octosporis; sporidiis oblongo-ellipsoideis, subdistichis, 5-septatis, septulis longitudinalibus vix distinctis, luteis, 27-30 \approx 12-13.

Hab. in foliis emortuis Typhæ latifoliæ, Rochefort Galliæ.

22. **Pleospora hydrophila** Karst. in Hedwigia 1883, p. 2. — Peri- 3572 theciis sparsis, innatis, sphæroideis, glabris, nigris, 0-2 mm. latis, ostiolo papilliformi, distincto, erumpente; ascis oblongatis, subses-

silibus, $80 \approx 22$, octosporis; sporidiis tristichis, oblongato-fusoideis, inæquilateralibus vel leviter curvulis, 5-septatis, loculo tertio protuberante septuloque longitudinali præditis, ad septa leviter constrictis, luteolo-fuscescentibus, $22-30 \approx 6-10$.

Hab. in foliis Acori Calami putrescentibus prope Aboam Fenniæ. — *Pl. deflectenti* affinis, forte tantum ejus subspecies vel varietas.

23. **Pleospora Arctagrostidis** Oudem. Cont. à la Flore myc. de Nowaja Semlja pag. 9, tab. I, fig. 1. — Peritheciis in foliis hypogænis, epidermide pro maxima parte tectis, 1 mm. diam., atris, poro pertusis, glabris; ascis cylindræis, primitus saltem quam maxime stipatis, $116 \approx 30$, 8-sporis; sporidiis distichis, obovato-oblongis, primitus mellei coloris, pellucidis, postea fuscescentibus, semipellucidis, medio parum constrictis, horizontaliter 6-septatis, loculis plurimis septo verticali murali-divisis, $35 \approx 12$.

Hab. in Arctagrostide latifolia, Nowaja Semlja.

24. **Pleospora Harknessii** Berl. et Vogl. Add. Syll. pag. 174, *Leptosphaeria straminis* Cooke et Harkn. in Grevill. XIV, pag. 10 nec S. et Sp. — Culmicola; peritheciis sparsis vel subgregariis, maculis effusis, nigrefactis insidentibus, erumpentibus, atris, convexis pertusis; ascis cylindrico-clavatis, octosporis; sporidiis lanceolatis quinquesepatis, leniter constrictis, fuscis, loculis binis centralibus longitudinaliter divisis, $32-35 \approx 6-8$.

Hab. in culmis Tritici in California (HARKNESS).

25. **Pleospora palustris** Berl. Monogr. Pleosp. p. 67, t. II, f. 10, *Pl. Heleocharidis* Plowr. et Cooke, nec Karst. — Peritheciis sparsis, minutis, 250 μ . diam., globosis, ostiolo papillato, pertuso, longiusculo præditis; ascis oblongis vel oblongo-clavatis, sursum late rotundatis, basi in pedunculum nodulosum, subinde longiusculum abeuntibus, tunica crassa præditis, $110-130 \approx 24-30$, octosporis; sporidiis distichis v. medio subtristichis, oblongis, utrinque primo 5-6-pseudoseptatis, loculis nonnullis septulo longitudinali divisis, dein distincte septatis, $36-40 \approx 13-15$, e melleo fuscidulis.

Hab. in Junco conglomerato pr. Rasstatt in Baden. — *P. vaganti* var. *arenariæ* affinis.

26. **Pleospora juncigena** Cooke in Grevill. XIX, p. 8. — Peritheciis sparsis, erumpentibus, globosis, nigris, papillatis, demum fractis epidermidemque excutientibus; ascis cylindræis, 8-sporis; sporidiis 1-stichis, ellipsoideis, medio constrictis, 5-septatis, muriformibus, succineis, $25-30 \approx 10-12$.

Hab. in Juncis, N. Wootton in Britannia et California (HAR-
KNES).

27. *Pleospora longispora* Speg. F. Fueg. n. 254. — Maculis nullis 3577
v. indeterminatis, fuscescentibus; peritheciis sparsis, immersis, glo-
bulosis, 300-350 μ . diam., atris, glabris, contextu dense parenchy-
matico fusco-fuligineo, ostiolo papillulato, conico, exsertulo donatis;
ascis cylindraceo-clavatis, antice rotundatis, crassiuscule tunicatis,
non v. vix subfoveolatis, deorsum attenuatis, brevissime crasseque
stipitatis, 180-200 \approx 25, 8-sporis, paraphysibus filiformibus, guttu-
latis, densis obvallatis; sporidiis distichis, clavulatis, 40-45 \approx 13-15,
6-septatis, ad septa leniter constrictis (ad medium validius), segmen-
to supero crassiore atque obtusiore (biseptato), infero longiore et
graciliore, loculis (2 extimis exceptis) septis valde tenuioribus re-
ticulatis, flavidis.

Hab. ad vaginas putrescentes Hierochloæ antarcticæ pr.
Penguin rookery Staten island Fuegiæ.

28. *Pleospora Forsteri* Speg. F. Fueg. n. 257. — Maculis nullis; pe- 3578
ritheciis innato-erumpentibus, sparsis vel 2-3-seriatis, globulosis,
e latere compressiusculis, 250-300 \approx 150-200, subcarbonaceis, con-
textu indistincto, opaco, atris, glabris v. hyphis paucis repentibus,
tenuibus basi cinctis, ostiolo papillulato, minuto coronatis; ascis
cylindraceo-subclavatis, antice attenuato-truncatis, postice cuneato-
attenuatis ac pedicello brevissimo crassissimoque suffultis, 80 \approx 15,
8-sporis, parce paraphysatis; sporidiis oblique distichis, fusoideis
vel fusoideo-subovatis, utrinque attenuato-rotundatis, 24 \approx 8, rectis
v. inæquilateralibus, horizontaliter 5-septatis, ad septa constrictu-
lis, loculis 2 (rarius 3) intimis septo verticali alternatim (non con-
tinuo) divisis, flavis.

Hab. ad folia culmosque Festucæ magellanicæ in Staten
island Fuegiæ.

29. *Pleospora fuegiana* Speg. F. Fueg. n. 251. — Maculis nullis; 3579
peritheciis sparsis vel subseriatis, hypophyllis, globulosis, 180-200
 μ . diam., immersis submembranaceis, atris, contextu parenchyma-
tico olivaceo, ostiolo non vel vix papillulato pertusis, glabris vel
hyphis paucis ramosis intricatis, 3-4 μ . cr., fuliginis laxè vesti-
tis; ascis cylindraceis, apice obtusiuscule rotundatis, tunica non v.
vix incrassata, basi plus minusve attenuato-pedicellatis, 75-100 \approx
13-15, 8-sporis; paraphysibus crassis, paucis, nodulosis; sporidiis
fusoideis, utrinque plus minusve acutatis, 24-26 \approx 5-6.5, horizonta-
liter 5-, rarius 7-septatis, vix (ad medium validius) constrictulis,

loculo extimo supero tantum septo verticali (rarius deficiente) diviso, melleis vel pallide fuligineis, strato mucoso, hyalino, tenui obvolutis, in prima juventute sæpe utrinque minute hyalino-apiculatis.

Hab. in foliis dejectis Poæ Forsteri in scopulosis pr. Chair island Fuegiæ. — Species pulchella partium fructificationis fabrica fere lophiostomacea, ostiolo tamen rotundo recedens.

30. **Pleospora Engeliana** (Sauter) Winter Die Pilze II, p. 493, *Da-* 3580
campia Engeliana Saut. — Peritheciis gregariis, sæpe stipatis, initio immersis et ostiolo vix emergente, denique ad medium exertis sphæroideo-conoideis, vertice poro amplo pertuso denique amplius hiantibus, nigris, majusculis; ascis cylindraceutis, elongatis, deorsum attenuatis, octosporis, 160-165 \approx 10-11; sporidiis oblongis, medio profunde constrictis, utrinque acutiusculis, 3-5-septatis, addito sæpe septo longitudinali, flavo-brunneis, monostichis 21-25 \approx 8-9; paraphysibus copiosis.

Hab. in thallo Solorinæ saccatæ in Germania. — An eadem ac *Pl. Solorinæ*.

31. **Pleospora Collematum** Zukal Neue Ascom. p. 6, t. I, f. 3. — Stro- 3581
mate nullo; peritheciis rufo-brunneis, gregariis, ampulliformibus, coriaceo-membranaceis, immersis, ostiolo levi, glabro, subumbilicato, tantum prominentibus, 150-250 \approx 100-160; ascis late clavatis, apice rotundatis, distincte stipitatis, circ. 26 \approx 14; sporidiis fusoides, rubente-brunneis, transverse 3-5-septatis, longitudinaliter 1-2-septatis, circ. 13 \approx 4; paraphysibus simplicibus, filiformibus.

Hab. in Phymate compacto aliisque Collematibus, Kalenderberg prope Mödling et Raabs in Thaya Austriæ infer. (HEEG). — Adsunt pycnidia peritheciis tertio minora et sæpius saturate colorata, stylosporibus 2 μ . long., fusoides, cirriformiter exeuntibus.

4. Sporidia sub-7-septata.

32. **Pleospora herbarum** (Pers.) Rab. — Sacc. Syll. II, p. 247. — 3582
***P. moricola** Pass. in litt. Berl. Fungi Moric. fasc. II, t. I, f. 7-12. — Peritheciis subsuperficialibus, sparsis, globosis vel globoso-conoideis, ostiolo brevi, conico vel crasso, atris, opacis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. latis; ascis cylindraceutis-rotundatis, amplis; paraphysibus fasciculatis, obvallatis, sessilibus, rectis vel arcuatis, octosporis, 130-145 \approx 21 (sec. clar. Passerini 150-200 \approx 25-28); sporidiis biserialibus, raro oblique uniserialibus, ellipticis, 7-septatis, loculo uno, duobus,

raro tribus, septis longitudinalibus divisis, ad septum medium paullo constrictis, parte superiore vix crassiore, 35-42 \approx 13-17, flavis.

Hab. in foliis emortuis putrescentibus Mori albæ, Parma Italiæ borealis. — Var. **Brassicæ** (Lasch) Sacc. in Bull. Soc. myc. V, p. 120: peritheciis amphigenis, sparsis, e globoso-depressis, non v. vix collabascentibus, centro minuto pertusis, epidermide diu velatis, nigris, 300 μ . lat., membranaceo-solidiusculis; ascis clavatis, apice rotundatis, brevissime obtuse stipitatis, 120-130 \approx 18-24, octosporis; sporidiis subdistichis, elongato-obovatis, 7-septatis, septis longitudinalibus 2-seriatis, muriformibus, medio tantum constrictis, apice crassioribus obtusioribusque, rufo-fuliginis, 26-28 \approx 12-13, strato mucoso dein obvolutis. In foliis emortuis Brassicæ oleraceæ, Driesen Germaniæ. — A typo differt peritheciis minoribus, vix collabascentibus sporidiisque minoribus. — Var. **Symphoricarpi** Passer. Diagn. F. N. IV, n. 24: peritheciis sparsis, minutis, tectis; ascis clavatis, paraphysatis, 8-sporis, 75-120 \approx 15-22; sporidiis superne distichis, elliptico-oblongis, medio subconstrictis, inferne angustioribus, 5-7-septatis, loculis septo longitudinali unico divisis, flavis, 25-35 \approx 10-11. In ramulis vivis Symphoricarpi racemosi, Parma Ital. bor. — Teste Berl. *Pl. Clarkeana* Ell. et Ev., *Pl. Cheiranthi* Cocc. et Mor. et *Pl. Verbasci* Rabenh., in Add. Syllog. descriptæ, a typo *Pl. herbarum* non differunt.

33. **Pleospora arctica** Fuckel in Die Zweite Deutsch Nordpolarf. II. 3583 p. 25, t. 1, f. 2. — Peritheciis in caulibus aridis, sub epidermide cinerescente nidulantibus et epidermidem pustulatim inflantibus, sparsis, media magnitudine, globosis, atris, ostiolis papilliformibus, perforatis, prominulis; ascis oblongis, plerumque curvatis, tunica crassa, breviter crasseque stipitatis, 8-sporis, 132 \approx 36; sporidiis imbricato-distichis, oblongo-ovatis, medio constrictis, 6-7-septatis muriformibusque, primo hyalinis, demum aureis, postremo atro-olivaceis, subopacis, 28 \approx 14; paraphysibus (seu pseudoparaphysibus) linearibus, septatis, multiguttulatis, hyalinis.

Hab. in caulibus aridis Epilobii latifolii, Kaiser-Franz-Joseph-Fjord in Groenlandia. — Status conidiophorus **Cladosporium arcticum** exhibens: cæspitulis minutis, maculæformibus, olivaceis, velutinis; hyphis subsimplicibus, cylindratis, septatis, sub lente fuscis, apice conidiophoris; conidiis oblongo-ovatis vel subclavatis, 1-2-septatis, quandoque oblique pedicellatis, flavo-fuscis, 24 \approx 8. In valvis aridis capsularum ejusdem Epilobii, ibidem.

34. **Pleospora Briardiana** Sacc. in Rev. Myc. 1885, p. 158. — Peri- 3584

theciis subsparsis, epidermide secedente subsuperficialibus, globoso-depressis, papillatis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., atris, duriusculis, mox collapso-scutellatis; ascis clavatis, subsessilibus, 72-96 \approx 14-16, octosporis; paraphysibus filiformibus, articulatis; sporidiis subdistichis, fusoideis, rectis v. curvulis, 7-septatis constrictisque, lutescentibus 28 \approx 7-8, loculis mediis longitudinaliter 1-seriato-divisis.

Hab. in caule sicco Verbasci pr. Troyes Galliæ (BRIARD). — Affinis *Pl. duræ*, a qua peritheciis collapso-scutellatis mox dignoscitur. Sec. Berl. est forma calva *P. coronatæ*.

35. **Pleospora scopulicola** Speg. F. Fueg. n. 259. — Maculis nullis; 3585
peritheciis superficialibus, epidermide velatis, e globoso lenticularibus, 300-350 μ . diam., atris, glabris, coriacellis, contextu indistincto, opaco, ostiolo non v. vix papillulato donatis; ascis paucis (10-12) in quoque perithecio, subclavatis, antice rotundatis, postice attenuatis, stipite crassiusculo, breviusculo suffultis, 120-130 \approx 30, tunica undique (præcipue in parte supera) crassa donatis, aparamphysatis, 8-sporis; sporidiis distichis, elliptico-obovatis, utrinque latissime obtusatis, 30 \approx 14, horizontaliter 7-septatis, ad septa non v. vix constrictis, loculis omnibus septis 1-3 verticalibus alternatim divisis, primo flavis, dein fusciscentibus, mucos destitutis.

Hab. in caulibus emortuis *Drabæ magellanicæ* et *Perremondicæ* sp. pr. Ushuvaia et in Aicina insula Fuegiæ.

36. **Pleospora freticola** Speg. F. Pat. n. 147. — Peritheciis sparsis, 3586
epidermide tectis, prominulis, e conoideo-globosis, 250-300 μ . diam., atris, levibus, glabris, duris, ostiolo papillulato pertusis, subcarbonaceis, contextu parenchymatico, subindistincto, opaco, atro; ascis cylindræo-subclavatis, pachydermatis, sursum obtuse rotundatis, deorsum modice attenuato-stipitatis, 105-130 \approx 20-23; paraphysibus paucis, crassis, fluxilibus obvallatis, 8-sporis; sporidiis recte distichis, elliptico-obovatis, utrinque obtusis, 27-30 \approx 10-11, medio 1-septatis, non v. vix constrictis, loculis 3-horizontaliter 1-2-verticaliter septatis, primo flavidis, dein olivaceis ac vix pellucidis.

Hab. ad ramos dejectos putrescentes *Armeriæ andinæ* in Gregory bay Patagoniæ. — In ascis sporidia muralia gerentia adsunt etiam sæpe sporidia nonnulla bilocularia tantum, obscure fuliginea eadem magnitudine!

37. **Pleospora anceps** Berl. et Sacc. Myc. Sib. p. 17, f. 17. — Peri- 3587
theciis sparsis, 250-300 μ . diam., rugulosis, epidermide tectis, globosis, demum complanato-collapsis, ostiolo minuto præditis, contextu minute parenchymatico, dense fuligineo, mycelio fibrilloso cin-

ctis; ascis ovoideo-clavatis, rectis v. curvatis, sursum late rotundatis, basi in stipitem crassum, brevissimum, nodulosum abeuntibus, 90-110 \approx 25-32; paraphysibus coalitis, ramosis, asco longioribus obvallatis, 8-sporis; sporidiis distichis v. basi oblique monostichis, oblongo-ovoideis, sæpe inæquilateralibus, transverse demum 7-septatis, septis tribus primariis crassioribus, loculis septis non v. rarius duobus longitudinalibus divisis, parte superiori crassiore, 24-27 \approx 12, primo flavo-rufulis, dein castaneo-lutescentibus, muco obvolutis.

Hab. in caulibus exsiccatis *Tragopyri lanceolati* in lapidosis pr. Krivaja Sibiriaë. — Habitus omnino *Pyrenophoræ* sed glabra. An forma decalvata *Pyrenophoræ hispidæ* var. *alpinæ* cui analogæ? Inter *Pleosporas* genuinas nulla vere affinis.

38. **Pleospora fibrillosa** Berl. Monogr. Pleosp. p. 80, t. III, f. 10. — 3588

Peritheciis sparsis, atris, conoideis vel depresso-conoideis, subinde collapsis, ostiolo minuto, obtusiusculo, perforato donatis, epidermide primo tectis, dein erumpentibus, 250-300 μ . diam., basi filamentis fuliginis, rigidulis, septatis, subinde sinuosis cinctis, sursum levibus; ascis clavatis v. oblongis, sursum late rotundatis, basi in stipitem brevissimum, nodulosum abeuntibus, sæpe curvis, tunica crassa præditis, 60-70 \approx 20-25, octosporis; paraphysibus filiformibus; sporidiis oblongis, utrinque rotundatis, parte superiore crassiore, transverse 7-septatis, septis 8 primariis crassioribus, ceteris parum irregularibus, subinde non optime distinctis, loculis septis 1-2 longitudinalibus divisis, 23-26 \approx 12-14, luteis, in senectute fuscescentibus sed numquam nitide olivaceo-fuliginis.

Hab. in caulibus exsiccatis *Calaminthæ* pr. Parmam Ital. bor. (PASSERINI). — A *P. aculeorum*, cui affinis, magnitudine atque fabrica sporidiorum, nec non colore distinguenda.

39. **Pleospora gibbosa** Berl. Monogr. Pleosp. p. 87, t. IV, f. 3. — 3589

Peritheciis sparsis, depressis v. globoso-depressis, atris, ostiolo minuto, pertuso donatis, 300-350 μ . diam., epidermide tectis, ostiolo tantum prominulis, levibus; ascis clavatis v. clavato-subcylindraceis, sursum attenuato-rotundatis, basi in stipitem brevissimum, nodulosum abeuntibus, 90-100 \approx 15-18, octosporis; sporidiis sursum distichis, basi oblique monostichis, ellipsoideo-oblongis, inæquilateralibus, curvulis, ad septa, præcipue ad medium constrictis, gibbosulo-torulosis, transverse 7-septatis, loculis nonnullis mediis septo longitudinali divisis, 21-24 \approx 8-9, rufo-fuliginis.

Hab. in caulibus siccis *Trifolii angustifolii*, Vigheffio pr.

Parmam Ital. bor. (PASSERINI). — *P. Gilletianæ* et *P. spinosellæ* subaffinis.

40. **Pleospora Passeriniana** Berl. Monogr. Pleosp. p. 84, t. IV, f. 5. 3590

— Peritheciis sparsis, minutis, 200-250 μ . diam., globoso-conoideis, atris, apice ostiolo subinde crassiusculo, pertuso, papillato donatis, glabris, epidermide tectis, nitidis; ascis clavatis, sursum late rotundatis, basin in pedunculum crassum, brevem, nodulosum abeuntibus, 8-sporis, 80-90 \approx 15-20; sporidiis irregulariter distichis, fusoido-oblongis, sæpe curvis, parte superiore crassiore, utrinque acutiusculis, transverse 7-septatis, ad septa vix, ad medium magis, constrictis, loculis mediis fere omnibus septulo longitudinali divisis, 25-28 \approx 8-10, fuligineis.

Hab. in caulibus exsiccatis *Poterii Sanguisorbæ*, Parma Ital. bor. (Prof. J. PASSERINI). — *P. australi* affinis sed sporidiis minoribus.

41. **Pleospora coronata** Niessl — Syll. II, p. 283 — Var. **Evonymi** 3591

Passer. Diagn. F. N. IV, n. 25. — Peritheciis sæpius epiphyllis, plus minus crebre sparsis, tectis, globosis, subinde vertice depressis, ostiolo papillato, fasciculo setarum luteo-sordidarum coronato, basi fibrillosis, pustulam fuscam, centro albidam, formantibus; ascis clavatis, curvis, basi sensim attenuatis; paraphysibus filiformibus, crebre nucleatis stipatis, 8-sporis, 70-88 \approx 15; sporidiis distichis, fusoides, medio constrictis, 7-septatis, parte superiore crassiore et brevioribus, loculis nonnullis intermediis longitrorsus divisis, primo flavis, tandem fuscis, 25-32,5 \approx 9-10.

Hab. in foliis fracidis *Evonymi japonici*, sociâ *Diplodiâ Evonymi*, Livorno Italiæ. — An, invito cl. Berlese, potius *Pyrenophoræ species*?

42. **Pleospora aculeorum** Berl. Monogr. Pleosp. p. 79, t. III, f. 9. — 3592

Peritheciis sparsis, minutis, 200-250 μ . diam., atris, epidermide tectis, basi hyphis mycelicis densis, repentibus, fuscis, cinctis, conoideis, sursum in ostiolum late conoideum, pertusum abeuntibus; ascis clavatis v. cylindræo-clavatis, sursum rotundatis, basi breviter noduloso-stipitatis; paraphysibus filiformibus,asco paullo superantibus, pseudo-septatis, simplicibus obvallatis, 8-sporis, 80-90 \approx 16-20; sporidiis distichis v. basi subinde irregularibus v. oblique monostichis, ovoideis v. ovoideo-oblongis, utrinque rotundatis, parte superiore crassiore, transverse primo 5-dein 7-septatis, septis primariis crassioribus, loculis nonnullis mediis et extimis septo longitudinali divisis, 18-24 \approx 9-11, luteo olivascentibus.

Hab. in aculeis exsiccatis Rosæ, Parmæ Ital. bor.

43. **Pleospora Spegazziniana** Sacc. Syll. II, p. 257. — Var. **betulina** 3593

Sacc. et Briard in Rev. Myc. 1885. — Peritheciis numerosissimis gregariis, primo cortice immersis, dein prominentibus epidermidemque eis adhærentem elevantibus, $\frac{1}{2}$ mm. diam., ostiolo papillato, rugoso, nigro; ascis oblongo-cylindræis, apice rotundatis, breviter stipitatis, 8-sporis, 192-200 \approx 26-32; paraphysibus filiformibus, septatis, quandoque apice incrassatis; sporidiis uniseriatis, obliquis v. subdistichis, ovato-oblongis, melleis, 7-septatis, muralibus, ad septa constrictis, 36-42 \approx 16-18.

Hab. in ramulis siccis Betulæ albæ prope Troyes Galliæ (BRIARD).

44. **Pleospora pustulans** Ell. et Ev. in Journ. Myc. 1888, p. 64. — 3594

Peritheciis gregariis, membranaceis, ovato-globosis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., ostiolo papilliformi corticem conico-pustulatim elevante erumpentibus; ascis clavato-cylindræis, basi breve stipitatis, circ. 100 \approx 15, copiose paraphysatis; sporidiis monostichis vel subdistichis, ex ovoideo oblongis v. oblongo-ellipsoideis, initio pallide brunneis et 3-4-septatis, utrinque acutis, mox 5-7-septatis, obscurioribus, utrinque obtusis, loculo uno alterove septo longitudinali divisus, demum loculis omnibus (apicali excepto) longitudinaliter septatis.

Hab. in corticis superficie interiore Fraxini, Clyde New York Amer. bor. (O. F. COOK). — *P. Saccardianæ* affinis.

45. **Pleospora brachyasca** Pass. in litt. Berl. Fungi Moricolæ fasc. II, 3595

tab. I, fig. 1-6. — Peritheciis amphigenis, minutis, 150-200 μ . diam., sparsis, globulosis, quandoque ostiolo obtuso, brevi donatis, atris; ascis amplis, saccatis vel sursum leniter attenuatis, basi abrupte breviterque stipitatis, foveola perspicua instructis, paraphysibus filiformibus, mox evanescentibus obvallatis, 110-120 \approx 24-27, octosporis; sporidiis ellipsoideis, parte superiore vix crassiore, 7-septatis, ad septa medium et pænultima leniter (Chloro-joduri-zinci ope distincte) constrictis, loculis hinc inde septulis uno, duobus raro tribus, longitudinalibus divisus, 24-30 \approx 10-12, luteis.

Hab. ad folia dejecta, putrida Mori albæ, Parma Italiæ borealis.

46. **Pleospora Convallariæ** Cocc. et Mor. Enum. F. Bot. IV, p. 13, 3596

t. III, f. 1-4. — Peritheciis sparsis v. laxè approximatis, erumpentibus, papillatis, membranaceis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; ascis cylindraeco-clavatis, breviter stipitatis, 8-sporis, 110-130 \approx 24-30; sporidiis subirregulariter ovoideis, dense muriformibus, transverse 7-septa-

tis, segmentis singulis, 1-4-ocularibus, flavescenti-brunneis, 29-33 \approx 14-15.

Hab. in pedunculis fructiferis *Convallariæ majalis*, Bologna Italiae.

47. **Pleospora Pustula** Berl. et F. Sacc. Contr. Myc. Lus. p. 5, t. 83, 3597

f. 6. — Peritheciis aggregatis, pustulas elevatas, epidermide circa ostiolum nigrificata tectas hinc inde formantibus, globosis, coriaccellis, 300-400 μ . diam., contextu crasso; ascis clavatis, longe pedicellatis, 70-80 \approx 20-22, sursum late rotundatis, 8-sporis, stipite 60-80 μ . long., paraphysibus filiformibus; sporidiis late fusoides, sæpe inæquilateris, transverse diu 3-septatis, dein septis 2-4 secundariis tenuioribus accedentibus et tum 7-septatis, oculis mediis septulo longitudinali divisis, 25-30 \approx 8-10, ad septa primaria tria, multo crassiora distincte constrictis, opace fuliginis, mucro crasso obvolutis.

Hab. in foliis emortuis *Fourcroyæ longævæ*, Coimbra Lusitanie. — *P. giganteæ* affinis, sed parvitate valde recedens.

48. **Pleospora laxa** Ell. et Gall. Journ. Myc. 1889, p. 66. — Peri- 3598

theciis sparsis, subglobosis, nigris, 150-170 μ . diam., basi ex una, apice ex altera foliorum pagina prominentibus; ascis 6-8 in quovis perithecio, inflato-oblongis, supra late rotundatis, basi in stipitem brevem contractis, 150-200 \approx 35-55, obscure paraphysatis; sporidiis octonis, obovatis, oblongis, 6-8-septatis, grosse muriformibus, pr. medium profunde constrictis, stramineis, 35-45 \approx 15-20.

Hab. in foliis et culmis *Graminacearum* quarundam, Montana Amer. bor. (ANDERSON).

49. **Pleospora Maydis** Malbr. et Brun. Champ. ajout. Saint. p. 244. 3599

— Peritheciis sparsis v. approximatis, tectis, dein erumpentibus, globosis vel globoso-depressis, nigris, ostiolo papillato; ascis clavatis, breve stipitatis, 8-sporis, 100-150 \approx 25-40; sporidiis apice distichis, deorsum oblique monostichis, ellipsoideo-fusoides, utrinque obtusis, 7- raro 8-9-septatis, septis primariis constrictis, oculis 1-2 longitudinaliter septatis, 30-34 \approx 7-9, flavis.

Hab. in culmis emortuis *Zeæ Maydis*, Saintes Gallie.

50. **Pleospora Lolii** Karst. et Har. Rev. Myc. 1890 Oct., *Pleospora* 3600

herbarum A. *Lolii* Desmaz. Crypt. de France n. 1779 (1^{re} éd.). — Peritheciis sparsis, tectis, spherioideo-depressis, in statu sicco, ostiolo papillato erumpente, glabris, atris, contextu parenchymatico, vix 0,3 mm. diam.; ascis cylindraceutis, dein cylindraceuto-clavatis, basi in stipitem brevissimum desinentibus, usque ad 150 μ .

long. et 30 μ . cr.; sporidiis octonis, distichis, basin versus monostichis, elongatis, medio v. ad septum tertium leviter constrictis, parte superiore crassiore, utrinque rotundatis, 6-7-septatis, loculis septis duobus longitudinalibus divisus, melleis, demum fuliginis, 27-30 \approx 9-10; paraphysibus articulatis, 2-3 μ . cr.

Hab. in Lolio, Luc-sur-Mer Galliæ (ROBERGE). — Ab affini *Pl. herbarum* peritheciis cuticula semper tectis sporidiisque ut plurimum 6-septatis et vix muco involutis præ ceteris recedit.

51. **Pleospora patagonica** Speg. F. Pat. n. 145. — Peritheciis spar- 3601
sis, matricis subimmutatæ parenchymate innatis, lenticulari-hemisphæricis, 200-250 μ . diam., ostiolo rotundo minutissimo perforatis, atris, glabris, levibus, carbonaceo-membranaceis, contextu indistincto; ascis cylindræo-saccatis, apice subtruncato-rotundatis crasseque tunicatis, basi abrupte in pedicellum brevissimum crasseque productis, 65-70 \approx 25-30, aparamphysatis, 8-sporis; sporidiis recte-di-v. tri-stichis, elliptico-ovoideis, 24-28 \approx 10, non vel vix subinæquilateralibus, utrinque obtusiuscule acutatis, horizontaliter 7-septatis, septis 3-verticalibus percursis, ad septum medium constrictis, primo hyalinis, dein pallide chlorino-flavescentibus.

Hab. ad culmos dejectos putrescentes Stipæ cujusdam secus Rio Gallego Patagoniæ.

52. **Pleospora insularis** Speg. F. Fueg. n. 258. — Peritheciis spar- 3602
sis, parenchymate immersis, atris, glabris, globulosis, 150-180 μ . diam., coriaceo-membranaceis, contextu dense parenchymatico olivaceo, ostiolo vix papillulato donatis; ascis cylindræis vel cylindræo-subclavatis, apice rotundatis, crassiuscule tunicatis, minute 1-foveolatis, deorsum non v. vix attenuatis, pedicello crasso brevissimo suffultis, 80 \approx 15, octosporis, parce paramphysatis; sporidiis distichis, biconico-obovatis, utrinque obtusiusculis, 25-28 \approx 8, horizontaliter crasse 7-septatis, loculis omnibus (extimo infero excepto) septo verticali, continuo divisus, diu hyalinis, dein sordide pallideque melleis.

Hab. in culmis emortuis Hierochloæ antarcticæ in Staten island Fuegiæ.

53. **Pleospora antarctica** Speg. F. Fueg. n. 248. — Peritheciis ma- 3603
trice nigrificata immersis vel semiimmersis, epidermide velatis e globoso conoideis, 180-200 μ . diam., atris, glabris, coriacellis, crassiusculis, contextu olivaceo, parum distincto, ostiolo acutiusculo brevi coronatis; ascis cylindræis, antice rotundato-subtruncatis, non vel vix crassiuscule tunicatis, non foveolatis, postice brevissi-

me crasseque attenuato-stipitatis, 80-90 \approx 10-14, parcissime paraphysatis, 8-sporis; sporidiis oblique monostichis v. recte distichis, elliptico-subfusoideis, utrinque acute obtusatis, 20-25 \approx 5-6, inæquilateralibus vel subcurvulis, horizontaliter 7- rarius 3-5- septatis, ad septa (medio validius) leniter constrictulis, loculis 4 (rarius 8) internis septo altero verticali divisio, dilute olivaceis, loculis extimis pallidioribus.

Hab. in culmis putrescentibus Graminacearum pr. Sham-macus Fuegiæ.

54. **Pleospora muscicola** Cooke et Mass. Grevill. XVII, pag. 76. — 3604

Peritheciis sphæroideis, basi applanatis, breve papillatis, nigris, subnitidis, levibus; ascis clavatis, 8-sporis, brevissime stipitatis; sporidiis distichis, ellipsoideis, utrinque rotundatis, medio constrictis, 5-7-septato-muralibus, saturate fuligineis, 30-35 \approx 12-15.

Hab. in Bryo pendulo, Dumb-bell Bay 82° Nord. (FIELDER).

5. Sporidia 8-pluriseptata.

55. **Pleospora stenospora** Schroet. Einig. Pilz. Labrad. p. 17. — Pe- 3605

ritheciis circ. 200-300 μ . lat., collo conico, prominente, glabro præditis; ascis 90 \approx 26; sporidiis 33-38 \approx 11-14, utrinque valde attenuatis, transverse 8-septatis, longitudinaliter pluriseptatis, atrobrunneis.

Hab. in foliis vetustis et petiolis Anemones parvifloræ, Nayn, Okak, Labrador Amer. bor. — *P. Herbarum* affinis sed sporidiorum forma et colore diversa.

56. **Pleospora islandica** Johans. Svamp. fran Island. pag. 170, tab. 3606

XXIX, fig. 12. — Peritheciis sparsis, globosis vel globoso-depressis, breviter papillatis, sub epidermide nidulantibus, demum per epidermidem fissam erumpentibus, atris, glabris, plerumque basi filamentis paucis, fuligineis, obtusis cinctis, majusculis, 290-380 μ . diam.; ascis cylindræo-clavatis, in stipitem brevem attenuatis, octosporis, paraphysibus numerosis, articulatis v. guttulatis, simplicibus v. sparse ramosis, ascos superantibus, 125-150 \approx 23-27; sporidiis distichis, fusoideo-oblongis, sæpe inæquilateralibus, rotundatis vel acutiusculis, rectis, transverse 7-10-septatis, medio constrictis, flavis, sepimento in longitudine uno (alterove) percurrente, loculis ultimis integris et sæpe pallidioribus, muco hyalino obvolutis, 34-45 \approx 10-14.

Hab. in culmis et vaginis Poæ cæsiæ, Holar Islandiæ bor. 3607

57. **Pleospora Prostii** Pass. et Roum. in Rev. Myc. 1885, p. 169.

— Peritheciis sparsis, epidermide velatis, scutellatis, centro minute papillulatis, atris, glabris, contextu carbonaceo, obscure celluloso; ascis clavatis vel gibboso-saccatis, membrana crassa præditis, 86-120 \times 25, octosporis; sporidiis subdistichis vel oblique monostichis, oblongo-ellipticis, obscure 7-9-septatis, muriformibus e flavo fuscescentibus, nullibi constrictis, primitus strato mucoso, tenui obvolutis, 25-28 \times 10-12; paraphysibus non visis.

Hab. in leguminibus fracidis *Mimosæ Julibrissin* in caldariis Horti Mimatensis, Lozère Galliæ.

58. **Pleospora gigaspora** Karst. Hedwigia 1884, p. 37. — Peritheciis in matrice haud mutata sparsis vel subgregariis, epidermide primitus tectis, dein ea perfossa nudatis, conoideo-sphæroideis vel lenticulari hemisphæricis, basi applanatis, vertice obtusis vel umbonatis, levibus, glabris, atris, 300-400 μ . diam.; sporidiis octonis, distichis, ovoideo-oblongatis vel ellipsoideis, supra medium constrictis, rectis, superne obtuse subattenuatis, parte dimidia inferiori angustiore apiceque rotundata, transverse 10-13-septatis, murali-divisis, septulis 3-4, longitudinalibus hinc inde interruptis, obsoletioribus, saturate melleis, demum dilute fusco-melleis, 60-70 \times 24-34.

Hab. in caulibus emortuis herbarum majorum in insula Maris glacialis Kildin.

59. **Pleospora amplispora** Ell. et Ev. in Bull. Wash. Lab. Nat. Hist. 1884, p. 4. — Peritheciis sparsis, superficialibus, nigris, subglobosis vel hemisphæricis, $\frac{1}{3}$ mm. diam., siccitate collapsis; ostiolis brevibus, cylindræis vel subconoideis; ascis oblongis, 250 \times 75; paraphysibus.....? sporidiis oblongis, utrinque obtusis, medio leniter constrictis, 12-16-septatis, muriformibus, 60-75 \times 20-24, flavo-brunneis, demum brunneis.

Hab. in caulibus emortuis *Lupini* in monte Paddo Americæ borealis. — Sec. Berlese vix differt a *P. gigaspora*.

60. **Pleospora fenestrata** Niessl et Berl. Monogr. Pleosp. pag. 142, t. VIII, fig. 6. — Peritheciis sparsis vel leniter gregariis, primo epidermide tectis, dein prominulis, rugosis, globoso-conoideis, atris, sursum in papillam cylindræam, longiusculam, truncatam, apice pertusam abeuntibus, 250-350 μ . diam.; ascis crasse clavatis, sursum late rotundatis, basi in stipitem brevem, nodulosum desinentibus, 150-170 \times 30-35, octosporis; sporidiis irregulariter distichis, lanceolatis, utrinque subattenuatis, ad medium vix constrictis, transverse pluri-(17)-septatis, loculis septulis longitudinalibus crebris divisis, 1-guttulatis, 40-50 \times 14-17, flavo-olivascentibus, mucosè obvolutis.

Hab. in culmo putri Zeæ Maydis, sociâ *Pleospora rubicundâ* in ejusdem maculis rubris prope Brünn Moraviæ. — *P. Straminis* affinis sed septorum numero diversa.

61. **Pleospora multiseptata** Starb. Sverig. Ascom. p. 207, t. IV B, 3611

f. 1. — Peritheciis in matrice nigrescente et rubescente gregariis, ex epidermide erumpentibus, hemisphæricis, paullo depressis sed numquam collapsis, 250 μ . diam., atris, glabris, ostiolo prominulo, obliquo; ascis oblongo-clavatis, breviter stipitatis, 130-140 \approx 25-27; sporidiis octonis, dense 2-3-stichis, inæquilateris vel curvatis pr. medium paullo constrictis, soleiformibus, obtusis, transverse 13-18-pluriseptatis, longitudinaliter 3-4-septatis, oculis omnibus guttulis, strato hyalino, mucoso, plus minus manifesto obvolutis, flavidis, demum brunneis, 47-54 \approx 14-18; paraphysibus hyalinis, ascos superantibus.

Hab. ad caules aridos Artemisiæ vulgaris in insula Roslagiæ Sandön Sueciæ, rarissima. — A peraffini *P. fenestrata* N. et B. videtur differre peritheciis hemisphærico-depressis.

62. **Pleospora Saccardoi** Berl. Monogr. Pleosp. p. 127, t. VII, f. 2. 3612

— Peritheciis sparsis, 300-350 μ . diam., prominulis, aterrimis, submembranaceis, globosis, ostiolo minuto, papillato instructis; ascis crassissimis, sursum late rotundatis, basi in stipitem nodulosum attenuatis, tunica crassa præditis, 160-180 \approx 50-55, octosporis; sporidiis 3-stichis, stipatis, oblongis, apice subrotundatis, inferne leniter attenuatis, ad medium lenissime constrictis, transverse 7-8-septatis, oculis mediis, subinde omnibus (raro etiam extimo superiore), septo longitudinali divisis, protoplasmate guttuligero farctis, 55-70 \approx 22-25, e latere non vel vix conspicue compressis, dilutissime flavis, muco obvolutis.

Hab. in calamo exsiccato putri Scirpi lacustris in Gallia. — Magnitudine sporidiorum atque septorum numero a *P. scirpicola* mox distinguenda.

6. Sporidiorum septa numero ignoto.

63. **Pleospora Salicorniæ** Dang. Bull. Soc. Myc. 1888, p. XXV. — 3613

Pseudostromatibus immersis; peritheciis nunc immersis, nunc superficialibus, globosis, magnitudine varia, plerumque 300 μ . diam.; ostiolo vix perspicuo; ascis 4-8-sporis; sporidiis septatis.

Hab. in caulibus Salicorniæ herbacææ var. procumbentis pr. Portbail et Carteret Galliæ. — Adsunt conidia muriformi-

septata, 40-50 \approx 9. Sporidiorum et ascorum dimensiones ignotæ, hinc species vix recognoscenda.

64. **Pleospora Paronychiæ** Cooke in Grevillea XII, pag. 38. — Epi- 3614
phylla, sparsa; peritheciis globosis, prominulis, papillatis, semiimmersis, minimis; ascis clavatis; sporidiis fusiformibus, centro constrictis, multiseptatis muriformibusque, atro-fuliginis, demum opacis, 30 \approx 10.

Hab. in foliis emortuis Paronychiæ serpyllifoliæ, Luchon Galliæ.

7. Species reformatæ.

65. **Pleospora infectoria** Fuck. Huc teste Berl. spectant *Pl. Alternariæ* G. et G. et verisimiliter *Pleos. Chrysanthemi* E. Niel F. Gall. exs. n. 4455.
66. **Pleospora oblongata** Niessl. Huc, teste Berl., *Pl. Sedi* (R. et Br.) Berl. et Vogl. Add. Syll. p. 170.
67. **Pleospora phragmospora** (D. et M.) Ces. et De Not. — Huc, teste Berl., *Pl. ovoidea* Niessl, Add. Syll. p. 174.
68. **Pleospora Karstenii** Berl. et Vogl. Add. Syll. p. 175. Ita denominanda est *Pleospora arctica* Karsten Fungi Spetsb. n. 31 et Sacc. Syll. II, p. 271, nam *Pleospora arctica* Fuck. est anterior.

II. Catharinia Sacc.

69. **Pleospora hyalospora** Ell. et Ev. Proc. Phil. 1890, p. 238. — 3615
Peritheciis sparsis, depresso-hemisphæricis, 75-80 μ . diam., initio immersis, dein plus minus erumpenti-superficialibus; ostiolo papilliformi; contextu grosse parenchymatico; ascis oblongis, 75-85 \times 35-40; sporidiis octonis, oblongis v. subovato-oblongis, 3-5-septatis (sæpius 5-septatis), longitudinaliter plus minus distincte 1-pluriseptatis, subhyalinis, utrinque obtuse acuminatis vel rotundatis, ad septa (præcipue ad medium) constrictis, 25-40 \approx 12-15.

Hab. in foliis Lathyri sativi et Pisi sativi, Starkville Missouri Amer. bor. (S. M. TRACY). — *P. Pisi* subaffinis.

70. **Pleospora Dryadis** (Starb.) Sacc. *Sphærulina Dryadis* Starb. 3616
Bidr. Sverig. Ascom. p. 10, t. I, f. 7. — Peritheciis sparsis vel 2-3 gregariis seriatisve, conico-sphæroideis, semiimmersis, glabris, 70-90 μ . alt., 50-70 μ . lat., ostiolo brevi latoque erumpente; ascis paucis (3-5) ellipsoideis v. late cylindræco-saccatis, inæquilateris, 40-50 \approx 20-25, octosporis; sporidiis conglobatis, oblongis superne crassioribus rotundatis, inferne paullo angustioribus, inæquilateris,

5-7-septatis septisque 2-4 longit. uniseriatis divisis, ad septum II vel III leniter constrictis, hyalinis, 25-31 \approx 10-14; paraphysibus nullis.

Hab. in pagina superiore foliorum Dryadis octopetalæ ad Skurdalsporten prope Are in Jemtlandia (GREVILLIUS). — Si paraphyses absolute desunt, verisimiliter genus novum.

71. **Pleospora guaranitica** Speg. Fung. Guar. Pug. I. n. 230. — Pe. 3617
 ritheciis globulosis, minutissimis, 70-90 μ . diam., primo epidermide tectis, dein erumpenti-subsuperficialibus, sparsis, atris, glabris, levibus, tenui-membranaceis, contextu crasse parenchymatico-celluloso, olivaceo-fusco; ascis cylindraceo-clavatis, 60-80 \approx 25-30, 2-3 in quoque perithecio, tenui-tunicatis, antice obtusissime latissimeque rotundatis, postice brevissime noduloseque stipitatis, aparamphysatis, 8-sporis; sporidiis ellipticis, 25-35 \approx 12-14, rectis vel vix inæquilateralibus, primo crasse muco vestitis dein nudis, septis 5 transversis, ad medium tantum constrictis, 1-2-(rarissime 0 v. 3-) longitudinalibus donatis, utrinque acutiusculis, hyalinis, loculis 3 superis crassioribus.

Hab. ad folia emortua, exsiccata, adhuc pendula Leguminosæ herbacæe cujusdam, Paraguay Bras.

72. **Pleospora sphærelloides** Speg. F. Fueg. n. 247. — Maculis am- 3618
 phigenis, indeterminatis, superne canescentibus, inferne pallide roseo-aurantiis; peritheciis immersis, laxe gregariis v. subseriatis, atris, glabris, globulosis, 170-200 μ . diam., coriacellis; contextu indistincto, opaco, ostiolo vix papillulato epidermidem perforante sed non exserto donatis; ascis cylindraceis v. cylindraceo subobovatis, 50-60 \approx 12-14, antice late rotundatis, crasse tunicatis, 1-foveolatis, postice abruptiuscule cuneato-pedicellatis, 8-sporis, aparamphysatis; sporidiis distichis, obovato-subfusoides, utrinque obtuse acutatis, 13-15 \approx 4-5, 5-septatis, loculis 1- v. sæpius 2 centralibus, septo altero verticali divisis (rarissime deficiente), hyalinis.

Hab. ad folia vaginasque Poæ Forsteri pr. Port Cook in Staten island Fuegiæ. — Species ob maculas pulchras, carneo-aurantias, superficiem internam vaginarum latiuscule ambientes distinctissima.

73. **Pleospora maritima** Bomm. Rouss. Sacc. nov. sp. — Peritheciis 3619
 subglobosis, 60-100 μ . diam., nigris, glabris, subcutaneis, poro aper-
 tis; ascis oblongis, sessilibus, 54-60 \approx 15-18, octosporis; paraphy-
 sibus copiosissimis, filiformibus, simplicibus ascos æquantibus; spo-
 ridiis oblongo-fusoides, distichis, subinde subtristichis, 5-septatis,

loculo uno binisve longit. divisis, 16-25 \times 4,5-6, chlorino-hyalinis, strato mucoso crasso (intra ascum) obvolutis.

Hab. in foliis *Psammæ arenariæ*, Ostende Belgii.

74. **Pleospora Vogliniana** Sacc. in Rev. Myc. 1885, tab. LV, fig. 3. 3620

— Peritheciis subsparsis, peridermio dealbato tectis, globoso-depressis, $\frac{1}{4}$ mm. diam., dein leniter emergentibus, ostiolo inconspicuo; ascis tereti-clavatis, breve distichis, oblongo-fusoideis, 5-septato-muriformibus, ad septa leniter constrictis, 14-18-7, hyalinis.

Hab. in cortice *Betulæ albæ* circa Lutetiam Galliæ (FÉVILLÉAUBOIS). — Habitus lichenoideus.

75. **Pleospora argyrospora** Harkn. New Calif. Fungi pag. 25. — 3621

Peritheciis minutis, nigris, erumpentibus, sparsis; ascis 8-sporis, clavatis, sessilibus, crasse tunicatis, 60-65 \times 20; paraphysibus filiformibus; sporidiis hyalinis, distichis, elliptico-lanceolatis, 3-septatis, septis 1-2 longitudinalibus, 18 \times 8.

Hab. in ramis emortuis *Dendromeci rigidi*, Tamalpais in California.

CLATHROSPORA Rabenh. in Hedw. 1852, p. 116, em. Berl. Monogr.

Pleosp. p. 194 (Etym. *clathron* claustrum). — Perithecia et asci *Pleosporæ*. Sporidia quidem *Pleosporæ* sed conspicue compresso-applanata. — Ad hoc genus spectant: *C. permunda* (Cooke) Berl. loc. cit. (Syll. II, p. 243) [= *Pl. baccata* Ell., *Pl. aurea* Ell. et *Pl. compressa* Harkn. teste Berl.], *C. platyspora* (Sacc.) Berl. l. c. (Syll. II, p. 264), *C. pyrenophoroides* (Sacc.) Berl. l. c. (Syll. II, p. 267), *C. Donacis* Berl. l. c., *C. punctiformis* (Niessl) Berl. l. c. (Syll. II, p. 271), *C. Elynæ* Rabenh. (Syll. II, p. 273) et sequentes:

1. **Clathrospora planispora** (Ell.) Berl. loc. cit., *Pleospora planispora* 3622

Ell. in Torr. bot. Club. 1883, p. 53. — Peritheciis gregariis, siccitate collapsis, 250-330 μ . diam., epidermide vix decolorata tectis; ascis 114-120 \times 25-28; sporidiis distichis, oblongo-ellipsoideis, applanatis, 5-septatis, loculis extimis septo longitudinali præditis, luteis, demum brunneis, 30-40 \times 15-20 e latere 11 μ . crassis; paraphysibus copiosis.

Hab. in culmis putrescentibus verisimiliter *Elymi*, in America boreali. — Affinis *P. aureæ*, a qua mycelio non abundante, sporidiis latioribus, constanter 5-septatis distinguenda.

2. **Clathrospora Passeriniana** Berl. Monogr. Pleosp. Clathr. et Pyr. 3623

pag. 199, t. IX, f. 4. — Peritheciis sparsis, minutis, 200-250 μ . diam., globoso-conoideis v. globoso-depressis, ostiolo minuto, ob-

tuso donatis, epidermide tectis, vertice vix prominulis, atris, levibus; ascis clavato-cylindræis, sursum latiuscule rotundatis, basi in stipitem brevissimum, nodulosum attenuatis, 70-80 \approx 18, octosporis; sporidiis subdistichis, ovoideis, utrinque rotundatis, ad medium vix constrictis, valde compressis, transverse 4-septatis, loculis mediis centro septo longitudinali divisis, guttuligeris, 23-26 \approx 11-13, e latere 7 μ . cr., luteis.

Hab. in caulibus emortuis *Asperulæ Cynanchicæ*, Chieti Ital. bor., sociâ *Pleosporâ Asperulæ* (PASSERINI). — *Cl. planisporæ* affinis sed sporidia 4-septata.

PYRENOPHORA Fr. — Sacc. Syll. II, p. 277.

1. **Pyrenophora depressa** Peck in Torr. bot. Club. 1884, pag. 28. 3624

— Peritheciis 250-350 μ . diam., depressis v. collapsis, primo epidermide tectis, demum erumpentibus vel liberis, nigris, sæpe basi filamentis mycelicis parcis, appressis, nigris, radiantibus cinctis, apice setis brevibus, parcis, erectis vel divergentibus, rigidis præditis; ascis cylindræis vel subclavatis, 110-150 μ . longis; sporidiis stipatis vel oblique monostichis, oblongis vel subobovatis, tri-septatis, uno vel duobus septulis longitudinalibus divisis, 28-35 \approx 15-20, coloratis.

Hab. in caulibus emortuis *Arabidis*, in California Amer. bor. (M. E. JONES).

2. **Pyrenophora Hyphasmatis** Ell. et Ev. Journ. Myc. 1888, p. 65. 3625

— Peritheciis gregariis, superficialibus, ampulliformibus, murinis, 340-370 μ . diam., pilis brunneis, parce ramosis et septatis, brevibus, mollibus subcrispis, ostiolo lato et truncato excepto, vestitis; ascis clavato-cylindræis, 65-70 \approx 6-7, basi gracilis inclusa, p. sp. 50-55 μ . long., copiose paraphysatis; sporidiis conferte distichis, brunneis, subnavicularibus, utrinque initio subacutis, 3-septatis, loculo uno interdum diviso, 12-15 \approx 5-7.

Hab. in panno gossypino, St. Martinsville, Louisiana Amer. bor. (LANGLOIS). — Habitus fere *Chætomii*.

3. **Pyrenophora abscondita** Karst. in Hedw. 1884, n. 3, p. 1, Rev. 3626

atque Synop. Ascom. fenn. p. 39, *Sphæria abscondita* Karst. Fung. Lapp. or., pag. 216, 1865 (Notis. in Sällok. pro Faun. et Flor. Fenn. Förh 8 h. 1882). — Peritheciis gregariis, epidermide tectis, rotundatis, plus minus deplanatis, rugulosis, atris; hyphis tortuosis, fuligineis, undique obsessis, punctiformibus; ascis clavatis, brevissime stipitatis, 60-100 \approx 10-18; sporidiis octonis, ellipsoideis vel

ovoideo-oblongatis, utrinque attenuatis, ad medium constrictis, rectis v. leniter curvulis, mono-vel subdistichis, 3-5-septatis, septulo unico, hinc inde interrupto, longitudinali accedente, melleis, haud bene pellucidis, 17-21 \approx 7-9.

Hab. in caulibus vetustissimis Trollii europæi ad insulam lapponicam maris glacialis Olenii.

4. **Pyrenophora chrysozona** (Niessl) Sacc. Syll. II, p. 285. — Var. ³⁶²⁷
polaris Karst. in Hedw. 1884, p. 38, *Pl. Cerastii* Oud. Contr. Now. Sembl. p. 10, *Pl. glacialis* Niessl Hedw. 1885, p. 236, *Pl. herbarum* Karst. Fungi Spetsb. p. 98, pr. p. — Peritheciis erumpentibus, subsphæroideis, sæpe ostiolo papillato, vertice setulis parvis, erectis, divergentibus, brevibus instructis, circ. 0,2 mm. latis; ascis oblongatis v. oblongato-clavatis, brevissime pedicellatis, 90-180 \approx 30-44; sporidiis octonis, di-vel subtristichis, ellipsoideis v. ovoideo-oblongatis, ad medium vix v. leniter constrictis, utrinque obtusis, transverse 7- raro 5-septatis, septulis longitudinalibus hinc inde interruptis 1-3 accedentibus, rectis, inæquilateralibus v. leniter curvulis, aureis v. melleis, demum in fuscum plus minus vergentibus, 30-53 \approx 18-27; paraphysibus parum notabilibus.

Hab. ad folia plantarum variarum Di- et Monocotyledonearum in insulis Spetsbergen, in Beeren Eiland et in Tirolia.

5. **Pyrenophora Foexiana** Celotti in Berl. Pug. F. Fior. p. 15, t. 4, ³⁶²⁸
 f. 9. — Peritheciis sparsis v. leniter gregariis, epidermide primo tectis, dein ea secedente, liberis, globosis, globosove-conoideis vel depressis, undique setis rigidis, divergentibus, atris, sursum pallidioribus, septatis, 100-200 \approx 6-7, obsessis, contextu dense parenchymatico, fuligineo, 200-250 μ . diam.; ascis copiosis, clavatis, basi in stipitem nodulosum, subinde longiusculum, 15-20 μ . long., abeuntibus, sursum rotundatis, tunica crassiuscula præditis, rectis v. curvatis; paraphysibus filiformibus, pseudo-septatis vel hinc inde guttatis cinctis, 105-115 \approx 14-16; sporidiis octonis, distichis v. basi oblique monostichis, oblongo-ovoideis, rectis vel inæquilateralibus transverse constanter 4-septatis, ad medium vix constrictis, loculo secundo parum inflato et cum parte superiore crassiori, loculis mediis 1-2 v. subinde uno extimorum septo longitudinali divisus, 19-21 \approx 10, luteo-olivascensibus.

Hab. in caulibus emortuis plantæ herbacæe cujusdam prope Firenze Italiæ.

6. **Pyrenophora ambigua** Berl. et Bresad. Micr. Trid. pag. 44, t. IV, ³⁶²⁹
 f. 2. — Peritheciis sparsis, minutis, 100-150 μ . diam., epidermide

tectis et cum ea secedentibus; tenuiter membranaceis, contextu laxo parenchymatico, olivascenti-fuligineo, setis tenuibus, paucis, rectis v. sinuosis divergentibus, septatis, pallide fuligineis, mox deciduis vestitis, basi fibrillosis, globoso-conoideis, ostiolo minuto, obtusiusculo præditis; ascis clavatis, plerumque curvatis, basi in stipitem brevem nodulosum abeuntibus, sursum late rotundatis; paraphysibus filiformibus cinctis, $90-100 \approx 18-20$; sporidiis octonis irregulariter distichis, oblongis, transverse 5-septatis, loculis mediis vel etiam extimis septo longitudinali divisis, ad medium parum constrictis, parte superiore crassiore, $21-24 \approx 9-11$, fusco-aureis.

Hab. in caulibus emortuis Rumicis scutati exsiccatis pr. Trento. — *P. paucitrichæ*, *P. phæocomoidi* et *P. absconditæ* affinis.

7. **Pyrenophora paucitricha** (Fuck.) Berl. et Vogl. Add. Syll. p. 177, 3630

Pleospora paucitricha Fuck. in Die zweite deutsch. Nordpolarf. II, p. 32, t. 1, f. 3. — Peritheciis minutissimis, sparsis, subsuperficialibus, conicis, aterrimis, vertice pilis paucis, brevibus, rigidis, concoloribus obsitis; ascis ovato-oblongis, utrinque obtusis, subcurvatis, tunica crassa præditis, 8-sporis, $112 \approx 34$; sporidiis imbricato-subdistichis, oblongo-ovatis, utrinque obtusis, rectis, 5-septatis muriformibusque, medio constrictis, fuscis, $34 \approx 13$.

Hab. in foliis exsiccatis delapsis Salicis arcticæ, Kaiser-Franz-Joseph-Fjord in Groenlandia.

8. **Pyrenophora fenestrata** Peck in Torr. Bot. Club. 1884, p. 28. — 3631

Peritheciis $280-370 \mu$. diam., depressis, primum epidermide tectis, demum erumpentibus et liberis, setis paucis, rigidis, divergentibus præditis; ascis evanidis; sporidiis oblongis, fenestratis dense coloratis, in massa nigris, $40-50 \approx 18-22$, transverse 7-septatis, medio sæpe constrictis.

Hab. in caulibus herbaceis emortuis, Utah Amer. bor.

9. **Pyrenophora aparaphysata** (Therr.) Berl. et Vogl. Add. Syll. p. 178, 3632

Pleospora aparaphysata Therr. in Rev. Myc. 1882, p. 220. — Peritheciis majusculis, $\frac{1}{4}-\frac{3}{4}$ mm. diam., compressis, hysteriiformibus v. subsphæroideis, primum epidermide tectis, demum erumpentibus et tum subsuperficialibus, nigris dein nitidis, basi tomento byssino, radiante, rufescente, fugaci cinctis, ostiolis setis nonnullis, rigidis, radiantibus præditis; ascis saccatis, breviter stipitatis, crasse tunicatis, $120-150 \approx 14-20$, octosporis; sporidiis oblongis, ellipticis, 5-7-septatis, murali-divisis, septis levissime contractis, $20-25 \approx 8-10$, subflavidulis.

Hab. in culmis senescentibus *Secalis*, Lyon Galliæ. — Affinis *P. relicinæ*.

10. **Pyrenophora oligotricha** (Niessl) Berl. et Vogl. Add. Syll. p. 177, 3633

Pleospora oligotricha Niessl in litt. Rehm in Hedwigia 1885, p. 237. — Peritheciis gregariis, minutissimis, 0,2 mm. diam., sessilibus, globosis, atris, in parenchyma fuscum contextis, vertice setis 8 fuscis, acutis, simplicibus, septatis, rigidis, 60-120 \approx 5-6 et basi plerumque hyphis nonnullis, plus minusve longis, simplicibus, fuscis, circ. 4 μ . crass. obsessis; ascis elliptico-clavatis, brevissime stipitatis, crassis, 8-sporis, 75(-90) \approx 18; sporidiis distichis, oblongis et subclavatis, obtusis, rectis, melleis, transverse 8-, longitudinaliter 1-septatis, medio haud constrictis, 21-25 \approx 9-10; paraphysibus filiformibus; jodii ope episporio cœruleo-tincto.

Hab. ad caules putridos *Trifolii* pallescentis juxta glacies æternas montis Ortler prope Suiden in Tirolia (Dr. REHM).

11. **Pyrenophora Zabriskiana** Ell. et Ev. Proc. Phil. 1890, pag. 238. 3634

— Peritheciis subgregariis, erumpenti-superficialibus, ovato-globosis, 175-200 μ . long. e basi 5 μ . cr., apicem subacutum versus sensim attenuatis, atro-flavido-brunneis, dense vestitis; ascis clavato-oblongis, 100-112 \approx 22-25, supra rotundatis, basi breve et abrupte stipitatis; paraphysibus numerosis, gracilibus, inconspicuis; sporidiis conferte distichis, ovoideo-ellipsoideis, dense muriformibus, septis 12 vel pluribus, utrinque rotundatis, flavido-brunneis, 22-30 \approx 12-14, medio constrictis,

Hab. in cortice *Ulmi* americanæ, New Baltimore, New York Amer. bor. (Rev. J. L. ZABRISKIE). — *P. polyphragmiæ* valde affinis.

PELTOSPHERIA Berl. in Rev. mycol. 1888, n. 17, tab. 46 (Etym. a *peltos* scutum, ob perithecia clypeata). — Perithecia sparsa, epidermide tecta, basi ligno infossa, sursum clypeo stromatico, atro tecta, raro bina sub eodem clypeo. Ostiola vix erumpentia, brevia. Asci cylindranei, sessiles, paraphysati, 8-spori. Sporidia monosticha, ovoidea, septata, muriformia. — Est fere *Clypeosphæria* dictyospora.

1. **Peltosphæria vitrispora** (Cooke et Harkn.) Berl. loc. cit., *Pleospora vitrispora* C. et H. — Sacc. Syll. II, p. 276.

CAPRONIA Sacc. Syll. II, p. 288.

1. **Capronia Juniperi** Rich. Bull. Soc. Bot. Fr. 1887, p. 60, t. II, f. 2. 3635

— Peritheciis sparsis, minutis, globoso-ovatis, superficialibus, setulis rigidis, rectis, nigris vestitis, ad basin filamentis fuscis, elongatis, septatis, repentibus instructis; ascis amplis; sporidiis ovato-fusoideis, utrinque obtusis, 3-septatis, septis 1-3 longitudinalibus, hyalinis, fuscis, 10 μ . long.

Hab. in pinetis ad ramos Juniperi communis siccos, diu dejecto, St.-Amand-sur-Fion, Aulnay-Laitre Marne Galliæ.

2. **Capronia pleiospora** (Mout.) Sacc. *Melanomma pleiosporum* Mout. 3636
in Bull. Soc. R. Bot. Belg. 1886, p. 154, Cfr. Berl. Ic. I, p. 40. — Peritheciis globulosis, setulosis, $\frac{1}{6}$ mm. diam., subcoriaceis; ascis 62-70 \approx 15-20, sexdecimsporis; sporidiis non guttulatis, 11-15 \approx 5-6 muriformi-septatis.

Hab. in ramulis decorticatis Quercus, Dolembreux Belgii.

JULELLA Fabr. — Sacc. Syll. II, pag. 289.

1. **Julella Tulasnei** (Crouan) Berl. et Vogl. Add. Syll. p. 178. Huc ducenda *Rosellinia Tulasnei* Sacc. Syll. I, p. 276 (Cfr. iconem Crouanianam).

TEICHOSPORA Fuck. — Sacc. Syll. II, p. 291.

1 *Eu-Teichospora*.

1. **Teichospora vilis** (Fr.) Berl. et Vogl. Add. Syll. pag. 178, *Sphæria vilis* Fr. S. M. II, p. 466, *Melanomma vile* Fuck. Symb. myc. p. 160, Sacc. Syll. II, p. 100, Winter in Hedwigia 1886, pag. 103. — Sporidia oblonga, utrinque rotundata, transverse 3-septata, cellulis mediis plerumque longitudinaliter septatis, medio constricta, luteo-fusca, 12-15 \approx 4-5,5.
2. **Teichospora macrothele** Bomm. Rouss. Sacc. sp. nov. — Peritheciis aggregatis, subcorticalibus dein erumpentibus, globoso-ovoideis, $\frac{3}{4}$ -1 mm. cr., ostiolo subcylindræo, ruguloso, basi sulcato, perithecium subæquante; ascis 8-sporis, cylindræis, sessilibus v. breve stipitatis, 120-135 \approx 12; sporidiis monostichis, oblongis, obtusis, 15-18 \approx 8-9 brunneis, 3-4-septatis septoque longit. auctis; paraphysibus filiformibus, granulosis.
- Hab.* in ramis Buxi sempervirentis, Yvoir Belgii.
3. **Teichospora muricata** Ell. et Ev. in Bull. Wash. Lab. Nat. Hist. 3638 1884, pag. 5. — Peritheciis superficialibus, hemisphæricis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., sparsis vel subgregariis, udis olivaceis, siccis atris collapsisque, muricato-rugulosis, sæpe circa ostiolum prominulum, subcompressum radiato-sulcatis; ascis 125 \approx 15, evanescentibus; pa-

raphysibus copiosis, crassiusculis, granulosis, $2\frac{1}{2}$ -3 μ . latis; sporidiis oblongo-ellipsoideis, 18-25 \times 10-11 $\frac{1}{2}$, 3-septatis, demum submuriformibus, brunneis.

Hab. in cortice exteriori arborum, San Diego Amer. bor. (C. R. ORCUTT). — A *T. pezizoide* peritheciis rugosis, majoribus, demum collapsis, ascorum sporidiorumque magnitudine differt.

4. **Teichospora crotonoides** Pass. Diagn. Fung. nuovi, IV, n. 27. — 3639

Peritheciis sparsis, solitariis vel geminis vel pluribus, gregariis, erumpentibus, tuberculoso-corrugatis, atris, ostiolo papillari demum aperto; ascis paraphysatis, cylindraceutis, attenuato-stipitatis, 125 \times 10; sporidiis uniserialibus, ellipticis v. ovatis, extremo altero subacuto, primo didymis, hyalinis, ad septum constrictis, dein 3-4-septatis, loculis nonnullis vel omnibus longitrorsus divisus, pallide fuscis, 15 \times 7,5.

Hab. in cortice ramulorum emortuorum Populi, Torricella Cremonese Italiae. — Ob perithecia sæpe gregaria ad Cucurbitariam nutat, et peritheciis tuberculoso-corrugatis *Crotonocarpiæ* quodammodo accedit.

5. **Teichospora Bovei** Speg. F. Pat. n. 150. — Peritheciis hinc inde 3640

plus minus dense gregariis, sæpe subseriatis, e globoso conoideis, subdifformibus, 350-450 μ . diam., endophleo denudato plus minus immersis vel ligno denudato insidentibus, rectis vel obliquis, atris, carbonaceis, glabris, levibus, ostiolo crasso, obtuso sæpius difformi plus minus evoluto donatis; ascis cylindraceutis, apice obtusissime rotundatis crasseque tunicatis, 1-foveolatis, basi longiuscule attenuato-pedicellatis, 8-sporis, 120-140 \times 10, paraphysibus densis non vel vix longioribus obvallatis; sporidiis oblique monostichis, ellipticis, triseptatis, ad septum medium valide constrictis, loculis 1- v. 2 internis septo altero verticali (rarius deficiente) donatis, utrinque obtuse acutatis, rectis vel rarius subcurvulis, magnitudine ludentibus, 12-22 \times 5-10, sæpius 16-18 \times 7-8, fuligineis.

Hab. ad ramos dejectos putrescentes Genistæ sp. ind. prope Misioneros secus Rio S. Cruz Patagoniæ.

6. **Teichospora umbonata** Ell. et Ev. Proc. Phil. 1890, p. 242. — 3641

Peritheciis gregariis, discoideis, circ. $\frac{1}{3}$ mm. diam., cortice interiore epidermide destituto insidentibus; ostiolo tuberculiformi; ascis cylindraceutis, 75-80 \times 7-8, paraphysatis; sporidiis 1-stichis, ovoideis, transverse 3-septatis, loculis 1-2 mediis interdum longitudinaliter divisus, ad septum medium constrictis, stramineis, 12-15 \times 6-8.

Hab. in ramis emortuis *Symphoricarpi occidentalis*, Helena Montana Amer. bor. (Rev. F. D. KELSEY).

7. **Teichospora Rosmarini** H. Fab. Sphér. Vaubl. II, pag. 65, f. 46. 3642

— Peritheciis sparsis, cortici infossis, ligno adnatis dein nudis, globosis, $\frac{1}{2}$ mm. latis, vertice in peritheciis velatis, poro pertusis et vix erumpentibus, macula minuscula cæσιο-atra superficiem matricis infuscante; ascis dense paraphysatis, cylindraceis, breve et crasse stipitatis, 8-sporis, $150-180 \times 12-15$; sporidiis recte vel oblique monostichis, ellipsoideis medio constrictis, 3-septatis, rufo-brunneis, loculis plerisque septulo longitudinali divisis, $20-24 \times 10$.

Hab. ad ramos emortuos *Rosmarini officinalis*, Vaocluse Galliæ.

8. **Teichospora plantaginea** H. Fab. Sphér. Vaubl. II, p. 68, f. 47. 3643

— Peritheciis laxè sparsis, globoso-mammæformibus, senio cupuliformibus, $\frac{1}{3}$ mm. latis, modo corticolis semiinfossis, epidermide subvelatis et tunc ostiolo brevi, papillulato, modo lignicolis, nudis; ostiolo cylindrico, elongato diametrum perithecii circiter æquante; ascis cylindraceis, crasse et breve stipitatis; paraphysibus densis et filiformibus obvallatis, 8-sporis, $100-120 \times 10-12$; sporidiis oblique monostichis pallide luteis, medio constrictis, utrinque obtuse conoideis, 3 septatis, rarius 5-septatis; loculis binis intermediis ut plurimum septulo longitudinali divisis, nonnumquam vere integris, 18×7 .

Hab. ad caules et ramos exaridos *Plantaginis Cynopis*, Vaocluse Galliæ.

9. **Teichospora Gelmiana** Berl. et Bres. Micr. Trid. pag. 45, t. IV, 3644

f. 3. — Peritheciis dense sparsis v. gregariis, ligno basi insculptis, globoso-conoideis, coriaceo-carbonaceis, numquam collapsis, sursum poro latiusculo, rotundo perforatis, $300-400 \mu$. diam., nitidulis, glabris; ascis cylindraceis v. tereti-clavatis, subsessilibus, h. e. stipite brevissimo, noduloso præditis, 8-sporis, $70-90 \times 8-10$; paraphysibus filiformibus; sporidiis monostichis v. subinde sursum distichis, oblongis, transverse 3-septatis, sæpissime loculo extimo superiori septo transversali plus minus obliquo, subinde fere perpendiculari aucto, loculis mediis uno v. ambobus septo longitudinali divisis, ad septa 3 primaria constrictis, inferne attenuatis, loculis 2 mediis pallidissime lutescentibus, ceteris fere hyalinis, $18 \times 20 \times 6-7$.

Hab. in ligno indurato sicco *Fici Caricæ* et *Aceris campestris* pr. Trento. — *T. nitidulæ* et *T. Chevalieri* affinis.

10. **Teichospora mycogena** Ell. et Ev. Proc. Phil. 1890, p. 242. — 3645

Peritheciis magnitudine media, sparsis, immersis, ostiolo indistincto, e stromate radiato-rimoso suberumpentibus; ascis subcylindræis, deorsum in stipitem brevem abrupte contractis, circ. 100 \approx 12; sporidiis distichis, ovato-oblongis, transverse 3-septatis, loculis 1 vel pluribus longitudinaliter 1-septatis, flavidis dein atro-brunneis, medio distincte contractis, maturis 5-6-septatis, 12-15 \approx 6-8.

Hab. in stromate Diatrypes Stigmatis, Newfield New Jersey Amer. bor. — Habitus *Lophiostomatis floridani*.

11. **Teichospora mammoides** Ell. et Ev. Proc. Phil. 1890, p. 242. — 3646

Peritheciis erumpenti-superficialibus, gregariis, depresso-hemisphæricis, brunneolo-nigris, $\frac{3}{4}$ mm. diam.; ostiolo nigro, mammiformi, prominente; ascis clavato-cylindræis, subsessilibus, 100-110 \approx 12-15, copiose filiformi-paraphysatis; sporidiis monostichis, ovoideo-oblongis, 5-7-septatis, muriformibus, vix constrictis, flavis dein brunneis, 20-22 \approx 9-11.

Hab. in caulibus emortuis Sarcobati vermiculati prope Great Falls Montana Amer. bor. (F. W. ANDERSON).

12. **Teichospora Wainioi** Karst. Fung. Fenn. atque Sib. in Medd. af 3647

Soc. pro Faun. et Fl. Fenn. II, 1884, p. 139, et Rev. atque Synop. Ascom. fenn. p. 33. — Peritheciis gregariis, demum superficialibus, ovoideo-sphæroideis, tandem sæpe vertice plus minus collapsis, scabriusculis, vix nitentibus, nigris, 0,3-0,4 mm. lat., ostiolo papilliformi; sporidiis di- vel submonostichis, ovoideo-oblongatis vel elongatis, 2-6, vulgo 3-6-septatis, raro loculo secundo vel tertio septulo longitudinali diviso, ad septa leviter constrictis, rectis vel subcurvulis, fuscidulis, pellucidis, 15-21 \approx 5-6; paraphysibus numerosis, filiformibus, haud bene discretis.

Hab. ad lignum vetustum in parœcia Hollola Fenniae — *Teichosporæ deflectenti* proxima.

13. **Teichospora papillosa** Ell. et Ev. Proc. Phil. 1890, p. 242. — Pe 3648

Peritheciis gregariis, subsuperficialibus, depresso-globosis, $\frac{1}{3}$ mm. diam., valde papilloso-asperatis, initio pilis paucis, tenuibus, brevibus, glandulosis præditis, demum supra collabentibus, ostiolo papilliformi, non conspicuo; ascis oblongis, 8-sporis, subsessilibus, 75-85 \approx 20-24; paraphysibus evanescentibus; sporidiis conferte distichis, oblongis vel subclavato-oblongis, leniter curvis, utrinque obtusis, plerumque 5-septatis, loculis 1-2 septo longitudinali divisis, initio hyalinis, dein flavo-brunneis, 22-30 \approx 10-11.

Hab. in ramis decorticatis ex dejectis Salicis, Helena, Montana Amer. bor. (Rev. F. D. KELSEY).

14. **Teichospora oxythele** Sacc. et Br. Misc. Myc. II, p. 22, n. 98, 3649
tab. X, f. 24. — Peritheciis sparsis, e basi infossa superficialibus, globoso-conicis, $\frac{3}{4}$ mm. diam., atris, carbonaceis, ostiolo acute papillato; ascis tereti-cylindræis, breve et crasse stipitatis, paraphysatis, octosporis, 100-120 \approx 14-16; sporidiis oblongo-ellipsoideis, utrinque rotundatis, 26-30 \approx 9-11, 5-septatis parceque muriformibus, non constrictis, fuligineis.

Hab. in cortice duriore Salicis, Troyes Galliæ (BRIARD).

15. **Teichospora brevirostris** (Fr.) Fuck. — Sacc. Syll. II, p. 295, Winter in Hedwigia 1886, p. 103. — Perithecia demum plus minusve emergentia v. ostiolo tantum emersa, rugulosa, ostiolo conico-subcylindræo, perforato prædita, 450-470 μ . lat., 600-660 μ . alta; asci deorsum attenuati, 95-120 \approx 10-12; sporidia plerumque subinæquilateralia, 3-5 transverse septata, sepimento in longitudine uno, imperfecto, ad septa non v. perparum constricta, obliqua monosticha, aureo-fuscidula, 14-19 \approx 7-7,5; paraphyses filiformes.

16. **Teichospora parasitica** Passer. Diagn. F. N. IV, n. 26. — Peritheciis semiimmersis, atris, ostiolo obtuso, basi hyphis fuligineis brevibus reptantibus præditis, membranaceis, cellulis minutis subhexagonis, fuligineis contextis; ascis cylindricis, breviter attenuato-stipitatis; paraphysibus tenuibus obvallatis, 135-140 \approx 14-15, 8-sporis; sporidiis uniseriatis, ellipticis, 5-septatis, medio constrictis et separabilibus, septo longitudinali mediano, 15-17,5 \approx 8-10, flavis. 3650

Hab. in disco Stilbosporæ modoniæ Sacc., in ramis siccis Castaneæ vescæ, Vigheffio pr. Parma Ital. bor.

17. **Teichospora kansensis** Ell. et Ev. Proc. Phil. 1890, p. 243. — Peritheciis sparsis, minutis, 120-175 μ . diam., conico-hemisphæricis, basi cortice subimmersis, ostiolo papilliformi; ascis oblongis, subinde brevioribus et latioribus, 45-50 \approx 15; sporidiis distichis, ovoideo-oblongis, pallide brunneis, 3-septatis, demum 6-septatis et medio subconstrictis, basi subacutis, circ. 20 \approx 8-9. 3651

Hab. in cortice exteriori Populi moniliferæ, Kansas Amer. bor. (ECKFELDT).

18. **Teichospora Buxi** H. Fab. Sphér. Vaucl. II, p. 62, f. 44. — Peritheciis sparsis, ligno denudato semiinsculptis, globoso-deplanatis, vertice poro hiantè perforatis, $\frac{1}{2}$ -1 mm. latis; ascis cylindræis modo clavatis, abrupte et tenue stipitatis paraphysatis, 8-sporis, parte sporif. clavata, 110 \approx 18 vel parte sporifera cylindræa, 150 \approx 12, stipite 70-90 μ . longo; sporidiis partim faretis, partim submonostichis in ascis clavatis, oblique monostichis in cylindræis, 3652

3-5-septatis, medio constrictulis, altera dimidia parte crassiori, semiovata, altera angustiori, conoidea, rufo-brunnea, loculis multiguttulatis, plerisque septulo longitudinali divisis, 21-27 \approx 10-12.

Hab. ad ramos exsiccatos et decorticatos Buxi sempervirentis, Vacluse Galliæ.

19. **Teichospora Rhamni** H. Fab. Sphér. Vaubl. II, p. 64, f. 45. — 3653

Peritheciis sparsis, ligno denudato semiinfossis, globoso-mammæformibus, poro angusto pertusis, $\frac{1}{2}$ mm. latis, vertice numquam collabascendo patellari; ascis cylindræo-clavatis, breve et crasse stipitatis; paraphysibus filiformibus dense obvallatis, 8-sporis, 120 \approx 15; sporidiis oblique monostichis, oblongis, medio constrictis, altera dimidia parte crassiori, semiovoidea, altera angustiori, conoidea, 3-5-septatis, initio luteolis dein rufo-brunneis, loculis plerisque septulo longitudinali divisis, 18-22 \approx 7-9.

Hab. ad ramos deciduos et decorticatos Rhamni infectorii, Vacluse Galliæ.

20. **Teichospora pygmæa** E. et E. Journ. Myc. 1888, p. 63. — 3654

Peritheciis solitariis, sparsis, erumpenti-superficialibus, subhemisphæricis, nigris, 200-225 μ . diam., filamentis (mycelioideis?) paucis brunneis circa basin præditis; ostiolo primitus minutissime papilliformi, sed mox evanescentibus et tum peritheciis minute pertusis; ascis oblongo-cylindræis, subsessilibus, circ. 80 \approx 18-20, indistincte paraphysatis; sporidiis distichis, pallide flavido-brunneis, ovato-ellipsoideis, 3-septatis, medio constrictis, demum circ. 6-septatis, loculis 1-2 inter latiores septo longitudinali divisis.

Hab. in cortice Populi, Kansas Amer. bor. (Dr. J. W. ECKFELDT). — *T. pruniformi* affinis.

21. **Teichospora florentina** Berl. Pug. F. Fior. p. 17, t. II, f. 10. — 3655

Peritheciis sparsis, semiimmersis v. cortice basi insculptis, globosis vel globoso-conoideis, sursum in papillam obtusissimam vix perspicuam desinentibus, atris, carbonaceis, 250-300 μ . diam., fragilibus, levibus; ascis cylindræo-clavatis, sursum rotundatis, basi in stipitem brevissimum, nodulosum abeuntibus, 8-sporis, 105-115 \approx 15-17; paraphysibus filiformibus; sporidiis clavulato-fusoideis, 3-5- raro 6-septatis, ad septa vix (ad medium magis) constrictis, sursum rotundatis, inferne acutioribus, septis 3 primariis crassioribus obtusioribusque, secundariis subinde obliquis, 22-24 \approx 8-10, loculis mediis, raro extimis septo longitudinali divisis, flavo-viridulis, loculis extremis pallidioribus.

Hab. in cortice exsiccato verisimiliter Oleæ pr. Firenze Italiæ.

— *T. oaxystomoidi* affinis sed ostioli papillati absentia, sporidiis distichis diversa.

22. **Teichospora confluens** Berl. Exc. Frioul, pag. 16, t. 9, f. 9. — 3656

Peritheciis sparsis, solitariis vel 2-6 aggregatis et confluentibus, ligno inferne immersis, atris, rugulosis, conoideis, conoideo-globulosis vel difformibus, poro latiusculo pertuso, 400-500 μ . diam.; ascis cylindraceo-clavatis, basi in stipitem brevissimum abeuntibus, sursum late rotundatis, 8-sporis, 140-150 \approx 18-22, copiose filiformi-paraphysatis; sporidiis subdistichis v. sæpius oblique monostichis, ovoideis, ad medium constrictis, parte superiore crassiore, utrinque rotundatis, transverse 5-septatis, septis 3 primariis crassioribus, secundariis irregularibus, tenuioribus, loculis septis 1-2 longitudinaliter divisis, guttulatis, 22-25 \approx 10-12, fuligineis.

Hab. in ramis decorticatis Tiliæ europææ, Osoppo agri Forojuliensis Ital. bor. — *T. obducenti* subaffinis.

23. **Teichospora obducens** (Fr.) Fuck. — Sacc. Syll. II, p. 295 — var. 3657

Hippophaes Karst. in Hedw. 1884, n. 4, p. 5 et Rev. atque Synop. Asc. fenn. p. 33. — Sporidiis ovoideis, ad medium constrictis, 5-7-septatis, loculis ultimis exceptis, septulo unico, longitudinali divisis, luteolis vel flavis, pellucidis, 22-27 \approx 9-12.

Hab. ad lignum ramorum Hippophaes rhamnoidis prope Vasam Fennicæ.

24. **Teichospora ignavis** (De Not.) Karst. — Sacc. Syll. II, p. 296,

Winter in Hedwigia 1886, p. 103. Sec. cl. Winter (loc. cit.) huc referenda est *Teich. Morthieri* Fuck. — Perithecia sparsa vel subgregaria, mox initio superficialia, mox primo immersa, demum erumpentia, ostiolo distincto, papilliformi, obtuso, perforato, sæpe circa ostiolum umbilicata, rugulosa, $\frac{1}{2}$ mm. diam., substantia crassa firma; sporidia 7-septata, flavo-fusca, murali-divisa.

25. **Teichospora megastega** Ell. et Ev. Proc. Phil. 1890, p. 243. — 3658

Peritheciis gregariis, subsuperficialibus, basi ligno v. cortice immersis, per $\frac{2}{3}$ partis superioris prominulis, hemisphærico-globosis, $\frac{3}{4}$ -1 mm. diam., asperis, ostiolo inconspicuo, subpapilliformi; ascis cylindraceis, 175-200 \approx 15, basi brevi, stipitiformi præditis, copiose paraphysatis; sporidiis 1-stichis, circ. 7-septatis, muriformibus, plerumque medio plus minus distincte constrictis, utrinque rotundatis vel obtuse acuminatis, 25-36 \approx 12-15.

Hab. in cortice ramorum dejectorum nec non in ligno Salicis et Aceris glabris, Helena Montana Amer. bor. (KELSEY). — *T.*

- obducenti* valde affinis sed peritheciis minus confertis, magis depressis, majoribus et rugusioribus, sporidiis submajoribus.
26. **Teichospora Helenæ** Ell. et Ev. Proc. Phil. 1890, p. 243. — Pe 3659
 ritheciis gregariis, semierumpentibus, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., granulato-asperatis, supra collabentibus, ostiolo minuto; ascis clavato-cylindraceutis, 112-120 \approx 10-12, subtus in basim brevem, stipitiformem subabrupte contractis, copiose paraphysatis; sporidiis monostichis, ovoideo-oblongis, brunneis, medio constrictis, 5-7-septatis, loculis uno vel duobus septo longitudinali divisis, 15-25 \approx 8-12.
Hab. in ramis decorticatis dejectis Salicis (Rev. F. D. KELSEY) et in ligno Pruni virginianæ, Helena Montana Amer. bor. — *T. patellarioidi* valde affinis.
27. **Teichospora endophlœa** Pass. Diagn. Fung. nuovi, III, n. 37. — 3660
 Peritheciis sparsis v. subgregariis, erumpenti-superficialibus, globosis, atris, vertice obtusis; ascis paraphysatis, clavatis, 8-sporis, 112 \approx 20; sporidiis uniserialibus, ellipticis, 7-septatis, medio constrictis, loculo altero v. plerisque longitrorsum divisis, 22,5-25 \approx 11-12,5, olivaceo-fuscis; paraphysibus longis, filiformibus.
Hab. in superficie interiore corticis Amygdali Persicæ, Vigheffio pr. Parma Ital. bor.
28. **Teichospora princeps** (Fab.) Sacc. *Requienella princeps* H. Fab. 3661
 Sphér. Vaubl. II, p. 55, f. 32. Cfr. Berl. Ic. p. 38. — Peritheciis solitariis, late sparsis, nunc ligno denudato semiinfixis, globosomammosis, opaco-atris, rugulosis; ostiolo vix ullo, poro pertuso, 1-1,3 mm. diam.; ascis paraphysibus circumdatis, cylindraceuto-clavatis, stipitatis, 8-sporis, 240-255 \approx 24-27; sporidiis ut plurimum monostichis, rarius subdistichis, fusoideis, medio constrictulis, rufo-fuligineis, 7-9-septatis muriformibusque loculis granulosis, extimis dilutioribus, fere hyalinis, 48-66 \approx 15-18.
Hab. ad ramos emortuos Buxi sempervirentis et Cratægi Oxyacanthæ, Vaocluse Galliæ.
29. **Teichospora Eucalypti** (Cooke et Hark.) Berl. et Vogl. Add. Syll. 3662
 p. 178, *Sphæria Eucalypti* Cooke et Harkness in Grevillea XIII, pag. 20. — Sparsa; peritheciis subsuperficialibus, parvis, subglobosis, atris; ascis cylindraceutis, octosporis; sporidiis uniserialibus, ellipticis, medio leniter constrictis, 5-7-septatis muriformibusque, fuscis, 20-22 \approx 8.
Hab. in ligno putri Eucalypti in California.
30. **Teichospora olenjensis** Karst. in Hedw. 1884, n. 4, p. 5 et Rev. 3663
 atque Synop. Ascom. fenn. p. 33. — Peritheciis subgregariis, basi

applanatis, levibus, atris, ostiolo papillato, 4-5 mm. lat.; sporidiis octonis, elongatis, utrinque attenuatis, ad medium plus minus constrictis, 7-9-septatis, loculo uno alterove septulo unico longitudinali diviso, fuscis vel fuligineis, impellucidis, 40-51 \approx 10-15.

Hab. in ramis decorticatis aridis *Salicum* in insula Olenji Maris glacialis.

31. **Teichospora fuegiana** Speg. F. Fueg. n. 262. — Peritheciis spar- 3664
sis, cortice innatis, primo peridermio tectis, dein erumpentibus v. nudis, globosis, 200-250 μ . diam., carbonaceis, atris, glabris, contextu subindistincte parenchymatico, olivaceo, ostiolo non v. obtusissime papillulato, minuto ornatis; ascis cylindraceutibus; sporidiis oblique monostichis, ellipticis vel elliptico-ovoidis, utrinque rotundatis, 20-24 \times 10, horizontaliter 7-9-septatis, ad septa numquam constrictis, loculis 4-5 centralibus septo verticali, continuo divisis, subopace fuligineis.

Hab. vulgata in ramis emortuis *Empetri*, *Lebetanthi*, *Mygindæ*, *Gaultheriæ*, *Chiliotrichi* in *Ushuvaia*, *Agaia*, *Slogget bay* et *Staten island Fuegiæ*.

32. **Teichospora antarctica** Speg. F. Fueg. n. 261. — Peritheciis 3665
sparsis v. hinc inde pauci-gregariis, primo cortice tectis, eoque secedente nudis, subglobosis, 350-400 μ . diam., semiimmersis, atris, carbonaceis, contextu indistincto, ostiolo papillulato minuto ornatis; ascis cylindraceutibus, antice rotundatis v. rotundato-subtruncatis, deorsum breviter attenuatis ac in pedicellum crassiusculum desinentibus, 200 \approx 16-18, tunica ubique crassiuscula donatis, 8-sporis, paraphysibus parvis filiformibus immixtis; sporidiis oblique monostichis, ellipticis vel elliptico-obovatis, utrinque subacutatis, 25-28 \approx 12-15, horizontaliter 7-8-septatis, ad septa non v. lenissime constrictis, ad medium sæpe validius, loculis 3-5 septis 1-2-verticalibus alternatim divisis, opace fuligineis.

Hab. in ramis emortuis v. subvivis *Chiliotrichi amelloidis* in *Staten island Fuegiæ*.

33. **Teichospora Amelanchieris** (Fab.) Sacc. *Decaisnella Amelanchie-* 3666
ris H. Fab. Sphér. Vaubl. II, p. 66, f. 48. — Peritheciis sparsis, solitariis, corticolis, primum infossis, dein semiliberis, globoso-mammæformibus, $\frac{1}{2}$ - $\frac{3}{4}$ mm. latis; ostiolo brevi, conoideo; ascis cylindraceutibus, paraphysibus densis et filiformibus circumdatis, sensim attenuatis et pedicellatis, 8-sporis, 220 \approx 16; sporidiis recte monostichis, oblongis, utrinque polo obtusiusculis, plerumque leniter inæquilateralibus, medio non vel vix constrictis, 9-11-septatis

et muriformibus, luteis dein brunneolis; loculis septulis 1-3 longitudinalibus divisis, 25-30 \approx 9-12.

Hab. ad basim trunci exsiccatae *Amelanchieris vulgaris*, Vacluse Galliæ.

34. **Teichospora Decaisnella** Sacc., *Decaisnella Rhamni* H. Fab. 3667
Sphér. Vaubl. II, p. 66, f. 49. — Peritheciis sparsis, lignum denudatum incolentibus, nunc superficialibus, nunc semiimmersis, globoso-mammæformibus, $\frac{1}{2}$ - $\frac{2}{3}$ mm. latis; ostiolo conico prominulo; ascis cylindræis, paraphysatis, stipitatis, 8-sporis, parte sporifera 180 \approx 12; sporidiis oblique monostichis, pallide fusco-luteolis, crasse fusoides, utrinque obtusiusculis, 9-septatis, medio non vel vix constrictis; loculis septulis 1-2 longitudinalibus divisis, 30-32 \approx 9-10.

Hab. ad ramos emortuos *Rhamni infectorii*, Vacluse Galliæ.

35. **Teichospora vinosa** Pass. Diagn. Fung. nuovi, I, n. 64. — Peritheciis subgregariis, maculas griseas oblongas in ligno denudato, intus vinoso-rubido, formantibus, depressis, fuscis, opacis, ostiolo obsoleto; ascis cylindricis, subclavatis, basi attenuatis, stipitatis, 125-150 \approx 10-12, paraphysibus tenuibus, superantibus stipatis, 8-sporis; sporidiis obliquis, uniserialibus, fusiformibus, 5-9-septatis, ad septa plus minus constrictis, loculis nonnullis septulo longitudinali divisis, primo flavis, dein fuscis, 25-30 \approx 8-9.

Hab. in ligno denudato *Populi*, Vigheffio pr. Parma Ital. bor.

2. *Teichosporella* Sacc.

36. **Teichospora rostrata** Karst. in Rev. Myc. 1885, pag. 107. — Peritheciis discretis vel concretescentibus, primitus sub epidermide nidulantibus, demum liberis, superficialibus, subsphæroideis, atris, ostiolo conoideo obtuso, peritheciis duplo brevioribus, circiter 0,4 mm. lat.; ascis cylindræis, 125 \approx 10, octosporis; sporidiis monostichis, ellipsoideis, utrinque obtusissimis, ad medium constrictis, 3-5-septatis, loculis mediis septo longitudinali divisis, hyalinis, 16-21 \approx 9-10; paraphysibus haud bene discretis.

Hab. ad ramos exsiccatos *Ribis alpini* prope Mustiala Fenniciæ. — *T. propendulæ* affinis.

37. **Teichospora patellaris** Karst. Fung. Fenn. atque Sib. in Medd. af. Soc. pro faun. et Fl. fenn. II, 1884, p. 139 et Rev. atque Synop. Ascom. fenn. p. 34. — Peritheciis subgregariis, erumpenti-superficialibus, atris, opacis, 4-6 mm. lat.; ascis cylindræo-clavatis,

150 \approx 14; sporidiis octonis, monostichis, sphæroideo-ellipsoideis, 3-septatis, septulo longitudinali obsolete accedente, loculis guttula unica, minuta, chlorina præditis, 15-21 \approx 10-12; paraphysibus filiformibus.

Hab. ad lignum et corticem truncorum resinorum pr. Ter-vasalmi in parœcia Kuhmo Ostrobotniæ in Fennia.

38. **Teichospora arthonioides** Passerini in Martelli Flor. Bogos. 3671 p. 145. — Peritheciis sparsis vel subgregariis, inter fibras ligneas semiimmersis, subglobosis vel e latere compressis, elongatis, carbonaceis, ostiolo obscuro; ascis numerosis, jodo immutatis, ellipticis vel obovatis, ut plurimum basi acuta sessilibus, octosporis, 30-44 \approx 20-23; sporidiis oblongo-spathulatis, subtristichis vel conglobatis, 5-septatis et muriformibus, hyalinis, 17 \approx 5; paraphysibus non visis.

Hab. in ramulis cariosis, Keren Abyssiniæ (BECCARI).

39. **Teichospora planiuscula** Karst. Hedw. 1888. — Peritheciis gregariis, per peridermium erumpentibus, semiimmersis, rotundato-applanatis, sæpe angulosis, rudibus, atris, demum poro pertusis, 0,4 mm. diam. v. ultra; ascis e basi tenuatis clavatis, tunica crassa, 95-105 \approx 15-21; sporidiis octonis, di- v. tristichis, ovoideo- v. fusoido-oblongatis, rectis, 5-7-septatis, loculo uno alterove septulo longitudinali diviso, ad medium constrictis, chlorino-hyalinis, 25-36 \approx 6-8.

Hab. ad ramos emortuos Syringæ vulgaris in regione Aboënsi, Merimasku Fenniæ.

40. **Teichospora cervariensis** Sacc. et Berl. Misc. Myc. II, p. 28, 3673 n. 124, t. VIII, fig. 5. — Peritheciis basi adnata superficialibus, globoso-conicis, breve sed acute papillatis, $\frac{1}{3}$ mm. diam., atris, laxe gregariis, glabris; ascis tereti-clavulatis, brevissime stipitatis, parce paraphysatis, 160-170 \approx 20-25, octosporis; sporidiis subdistichis, oblongo-fusoides, utrinque acutiusculis, 10-12-septato-muriformibus, ad septa duo intermedia parum constrictis, 50 \approx 16, hyalinis.

Hab. in ramis putridis decorticatis Quercus pedunculatæ, Cervarese in provincia patavina Ital. bor.

WINTERINA Sacc., *Winteria* Rehm, Sacc. Syll. II, p. 225, p. p. Cfr. supra p. 870. — A gen. *Winteria* sporidiis septulis longitudinalibus præditis recedit. — Ad hoc genus præcipue spectant *W. viridis* (Rehm) et *W. lichenoides* (Rehm).

1. **Winterina crustosa** E. et E. in Jour. of Myc. I, p. 149. — Peritheciis membranaceis, $\frac{1}{3}$ - $\frac{1}{2}$ mm., depresso-hemisphæricis, tuberculosus, apice rugosis, laciniato-ruptis, partim connexis vel insidentibus, subiculo atro, crustaceo, plus vel minus distincto; ascis clavato-cylindræcis, 65-80 \approx 10; paraphysibus (?) filiformibus, mox in materia granulæri solutis; sporidiis biseriatis, fusiformibus, 20-25 \approx 4 5, luteolis vel hyalino-pallidis, gelatina involutis, plasmate in parte media diviso, raro 3-partito.

Hab. in ligno decorticato *Quercus*, West Chester, Amer. bor. — «Sporidia an revera muriformia? An potius *Winteria genuina?*».

2. **Winterina rhoïna** (E. et E.) Berl. et Vogl. Add. Syll. p. 181, *Sphæria rhoïna* E. et E. in Journ. of Myc. I, p. 149. — Peritheciis erumpentibus, dense gregariis, subseriatis, subglobosis, atris, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., membranaceis, tenuibus vel collapsis et tunc concavis vel patellæformibus, ostiolo papilliformi v. plerumque 4-5-stellato-rupto; ascis 45-60 \approx 7-8, in parte media amplis; paraphysibus validis, linearibus, nucleolatis; sporidiis biseriatis, fusiformibus, luteolis, nucleolatis, rectis vel leniter curvatis, interdum constrictis, 20-25 \approx 2 $\frac{1}{2}$ -3.

Hab. in ligno putri *Rhoïa copallinæ*, Newfield Amer. bor. — «Sporidia an revera muriformia? An potius *Winteria?*».

3. **Winterina cœrulea** (E. et E.) Berl. et Vogl. Add. Syll. p. 182, *Sphæria cœrulea* E. et E. in Journ. of Myc. I, 1885. — Peritheciis sparsis, membranaceis, applanatis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., epidermide primo integra, dein partim rupta et iis adhærente tectis, ostiolo amplo, papilliformi, obtuso, demum collapsio et tum umbilicatis; ascis 75-114 \approx 15-17, oblongo-cylindræcis, 8-sporis inferne abrupte contractis, basi valida; paraphysibus basi acutis, luteolis, multi-(8-12)-septatis et submuriformibus, 30-35 \approx 7-8.

Hab. in cortice vivo *Coniferæ* cujusdam in America bor. (W. N. SUKSDORF). — *Winteria excellens* (Rehm) Sacc. Syll. II, pag. 226 est *Discomyces*, *Odontotremati minori* peraffinis (Confr. Winter Hedwigia 1886, pag. 103).

PLEOSPHÆRIA Speg. — Sacc. Syll. II, p. 304.

1. **Pleosphæria modesta** Harkn. New Calif. Fungi pag. 26. — Peritheciis superficialibus, orbicularibus, nigris, 135 μ . diam., setis rigidis, nigris, 40-50 μ . longis ornatis; ascis octosporis, ovatis vel late fusoides, 45-50 \approx 15-20; paraphysibus nullis; sporidiis elli-

pticis, 3-4-septatis, septis 2 longitudinalibus, pallide olivaceo-brunneis, 10 \approx 6.

Hab. in ramis decorticatis, putrescentibus *Eucalypti*, San Francisco in California.

2. **Pleosphæria silvestris** Mouton in Bull. Soc. R. Bot. Belg. 1886, 3678 p. 158. — Peritheciis globosis, 150 μ . diam., coriaceis, atris, cum ostiolo obtuso confluentibus, setis concoloribus, 50-60 \approx 3 $\frac{1}{2}$ -5, undique hirsutis; ascis oblongis vel ovoideo-oblongis, 70 \approx 20, octosporis, parce paraphysatis; sporidiis elliptico-oblongis, apicibus rotundato-obtusis, plerumque 1-septatis, non constrictis, septulis longitudinalibus uniseriatis, divisis, olivaceo-fuligineis, 17-20 \approx 8.

Hab. in ramis sectis et decorticatis *Pini silvestris*, Beaufays in Belgio. — *P. pilosellæ* affinis a qua peritheciis minoribus sporidiorumque fabrica distinguitur.

3. **Pleosphæria pulveracea** Mouton in Bull. Soc. Bot. R. Belg. 1886, 3679 p. 159. — Peritheciis subglobosis, $\frac{1}{4}$ mm. diam., atris, pilis concoloribus, rectiusculis, septatis, 70-100 \approx 4-5 vestitis, minute papillatis; ascis tereti-clavatis, paraphysatis, breve stipitatis, superne rotundatis, octosporis, 95-115 \approx 15-17; sporidiis submonostichis, obovato-oblongis, 5-7-septatis, longitudinaliter subinde incomplete uniseriato-divisis, ad septum medium constrictulis, pallide fuligineis, 19-22 \approx 8,5-9.

Hab. in ligno secto adhuc duro *Quercus*, Beaufays in Belgio.

4. **Pleosphæria patagonica** Speg. F. Pat. n. 149. — Peritheciis in ligno denudato v. cortice libero, adhuc tecto, sparsis v. subseriatim hinc inde pauci-gregariis, globosis v. globoso-depressis, 120-150 μ . diam., ostiolo non vel vix papillulato et perspicuo ornatis, atris, submembranaceo-carbonaceis, contextu indistincto, atro-fuligineo, setulis conico-cylindræis, minutis, 15-50 \approx 2-5, atro-fuligineis, opacis, rigidulis laxè vestitis; ascis fusoideo-cylindræis, sursum subattenuatis crassissimeque tunicatis ac sterilibus, apice truncato-rotundatis, deorsum in stipitem brevissimum crassum nodulosumque attenuato-productis, 50-55 \approx 12-14, aparaphysatis, 8-sporis; sporidiis recte v. oblique distichis, elliptico-subfusoideis, utrinque obtusiuscule rotundatis, 3-5-septato-constrictis, loculis 1-3 centralibus septo altero longitudinali donatis, griseo-fumosis, 16-18 \approx 6-6,5.

Hab. ad ramos dejectos putrescentes *Fagi antarcticæ* in silvis pr. Cabo Negro Patagoniæ. — Jodi ops nulla; in peritheciis ascigeris adsunt etiam spermata innumera, minutissima, elliptica v. subnavicularia, 2-2,5 \approx 0,7-1, utrinque acutiuscule rotundata, hyalina.

5. **Pleosphæria fuegiana** Speg. F. Fueg. n. 263. — Peritheciis spar- 3681
 sis v. laxe gregariis, ligno denudato insidentibus, globoso-sphæroi-
 deis, 200-230 μ . diam., carbonaceis, atris, laxe puberulis, sursum
 pilis sparsis, acutis, unicellularibus, opacis, 10-20 \times 2-3, basi non
 v. vix incrassatis, deorsum hyphis fuligineis, gracilibus, septulatis,
 repentibus, intricatis vestitis, contextu indistincto, opaco, ostiolo
 impresso v. vix papillulato, minutissimo ornatis; ascis cylindræis,
 antice truncato-rotundatis, crassiuscule tunicatis, postice brevissi-
 me crasseque attenuato-pedicellatis, 85-95 \times 7-8, octosporis, para-
 physatis; sporidiis monostichis, elliptico-ovoideis vel subbiconicis,
 utrinque acutiuscule rotundatis, 12 \times 5, non v. leniter inæquilate-
 ralibus, horizontaliter 5-septatis, constrictulis, loculis 4 internis
 (rarius 1 vel 0) septo sæpius continuo, verticali divisis, locellis
 semper grosse 1-guttulatis, pallide e griseo olivaceis.

Hab. in ramis decorticatis putrescentibus Berberidis ilici-
 foliæ non rara in Fuegia.

6. **Pleosphæria otagensis** (Linds.) Sacc. *Sphæria otagensis* Linds. 3682
 Lich. and Fungi Otago p. 425, t. XXX, f. 8-15. — Peritheciis erum-
 pentibus gregariis, globosis, ostiolo obtuse mamillato collabascen-
 tibus, tomentosus; ascis.....; sporidiis (?biseriatis), late fusoides,
 utrinque acutiusculis, 5-6-septatis muriformibusque, ad septa con-
 strictis, 15-25 \times 5-7, fuligineis. — Adsunt perithecia minora spermo-
 gonica; spermatiis globoso-ovoideis, stipitellatis, 1,5-2 μ . diam.,
 hyalinis.

Hab. in corticibus putrescentibus Sophoræ tetrapteræ,
 Otago Novæ Zelandiæ.

7. **Pleosphæria Passerinii** Penz. Stud. bot. Agrum. p. 341, t. XXIX, 3683
 f. 2. — Peritheciis laxe gregariis, superficialibus, majusculis, 300-
 500 μ . diam., sphæroideis vix papillatis, carbonaceis, aterrimis, pi-
 lis longis, 250-400 \times 2,5-3,5, laxis fere septatis, fuligineis vestitis;
 ascis cylindræis, breve stipitatis, 8-sporis, 130-145 \times 23-26; pa-
 raphysibus numerosis ascos æquantibus, septatis; sporidiis ovalibus,
 5-septato-muriformibus, ex brunneo luteolis, 30-33 \times 12-13, ad se-
 pta leniter constrictis.

Hab. in foliis delapsis Citrorum in horto botanico Modena
 Ital. bor.

CROTONOCARPIA Fuck. — Sacc. Syll. II, p. 306.

1. **Crotonocarpia moriformis** Fuck. — Sacc. Syll. II, p. 306, Winter
 in Hedwgia 1886, p. 101. — Ascis cylindrici, breve pedicellati, 8-
 spori, 175 \times 14-16.

RHAMPHORIA Niessl — Syll. II, p. 307.

1. **Rhamphoria tenella** Sacc. in Hedw. 1890, p. 155. — Peritheciis 3684
subsuperficialibus vel basi ligno insculptis, exiguis, globulosis, $\frac{1}{8}$ - $\frac{1}{6}$
mm. diam., nigris, tenui-carbonaceis, in rostrum cylindraceum, ob-
tusulum, $\frac{1}{5}$ mm. long. productis; ascis tereti-clavatis, breve sti-
pitis, apice truncatis, non foveolatis, p. sp. 100-120 \approx 9-12, sti-
pitate 15 \approx 2-3; sporidiis octonis, oblique 1-stichis, oblongo-fusoideis,
utrinque acutiusculis, sæpe inæquilateralibus, 9- raro 11-septatis
muriformibusque, 24-26 \approx 6,5-7,5, ad septa vix constrictis, hyali-
nis; paraphysibus filiformibus, obsoletis.

Hab. in ligno Eucalypti viminalis, Mariatta Australiæ
sociâ *Poriâ* (O. TEPPER). — Contextus ostioli prosenchymaticus,
peritheciis parenchymaticus.

2. **Rhamphoria Buxi** Rich. Bull. Soc. Myc. 1888, p. LIV, t. V, f. 2. 3685
— Peritheciis inter rimas corticis sparsis, nigris; rostro cylindra-
ceo, peritheciis diametrum æquante, plerumque curvato; ascis cy-
lindræis, 80 μ . long., substipitis; paraphysibus simplicibus, ar-
ticulatis; sporidiis octonis, monostichis, 15 μ . long., ellipsoideis,
utrinque rotundatis, muriformibus, fusco-flavidis, transverse 3-5-
septatis, longitudinaliter 1-2-septulatis.

Hab. in ligno vetusto emortuo et denudato Buxi semper-
virentis, St.-Amand, Marne Galliæ.

3. **Rhamphoria tympanidispora** Rhem in Bomm. et Rouss. Fl. myc. 3686
Belg. II, p. 15. — Peritheciis sæpe gregariis, ligni rimis semiim-
mersis, dein liberis, subcarbonaceis, conoideis, in rostrum rectum,
tenue, cylindraceum v. irregulariter rugulosum, peritheciis diame-
trum subæquans, 0,5 mm. alt. attenuatis; ascis cylindræis, apice
rotundatis, 8-sporis, cellulis spermatioideis innumeris, subglobosis,
fere hyalinis, 1 μ . diam. faretis; sporidiis oblique monostichis, hya-
linis, clavato-fusoideis, apice obtusis, basi acutissimis, rectis, 6-8-
septatis, loculis superioribus septo longitudinali divisis, 18-27 \approx
4,5-7; paraphysibus filiformibus, septatis.

Hab. in ligno quercino putridissimo, Boitsfort Belgii. — *Rh.*
delicatulae affinis, dignoscitur sporidiis multo longioribus et an-
gustioribus etc.

4. **Rhamphoria antarctica** Speg. F. Fueg. n. 264. — Peritheciis sæ- 3687
pius densiuscule gregariis, subseriatis, ligno insculptis, cortice
tectis, per rimas erumpentibus, globosis, 200-250 μ . diam., atris,
glabris, membranaceis, contextu parenchymatico, olivaceo, ostiolo

setaceo, rigidulo, longissimo tenuissimo, 0,5-2 mm. long., 80 μ . crass., carbonaceo, cylindraco, sursum attenuato, apice non v. vix incrassatulo ac obtusato ornatis; ascis cylindracois, antice late rotundatis, deorsum subcoarctatis ac stipite brevi, crasso, noduloso suffultis, 80 \approx 18, tunica ubique crassissima donatis, aparaphysatis, 8-sporis; sporidiis oblique distichis ellipticis vel subovoideis, utrinque obtusiusculis, 18-20 \approx 10, horizontaliter 3-septatis, ad septum medium constrictis, loculis 1 v. 2 internis septo altero verticali (rarius deficiente) continuo divisio, pallide olivaceis.

Hab. in ramulis emortuis Escalloniæ serratæ, vulgatissima in Staten island et Fuegia Amer. austr.

BERLESIELLA Sacc. Rev. mycol. n. 37, Janvier 1888 (Etym. a Doct. A. N. BERLESE de Fungis moricolis, nec non de genere *Pleospora* meritissimo). — Perithecia subcarbonacea, atra, globulosa, stromate pulvinato vel hemisphærico v. effuso, carbonaceo inserta, discreta vel basi tantum connexa, botryoso-prominula, setosa, ostiolo minuto vel obsoleto. Asci elongati (spurie paraphysati, octospori). Sporidia ovoideo-oblonga 2-pluri-septata et muriformia, e hyalino flaveola. — A *Cucurbitaria* et *Botryosphæria* vere diversa.

1. **Berlesiella hirtella** (Bacc. et Av.) Sacc. loc. cit. *Cucurbitaria hirtella* Bacc. et Av. Contr. Stud. Mic. rom. pag. 17, t. XVI, f. 5. — Peritheciis stromate pulvinato, late effuso insidentibus, nigris, sphæroideis vel piriformibus, initio tectis, dein erumpentibus, aculeis brevibus, conicis, concoloribus hirtis, ostiolo papillato, conico; ascis clavulatis, evanescentibus, 55-75 \approx 11-14, octosporis; sporidiis inordinatis vel distichis, pallide luteolis, transverse 2-3-septatis, loculis mediis septulo longitudinali divisio, ellipticis ad mediam constrictis, 14-20 \approx 7; paraphysibus non visis.

Hab. in ramis putrescentibus Sambuci prope Roma Ital. merid. — A *Berlesiella nigerrima*, cui valde affinis, stromate late effuso, setis brevioribus (saltem ex icone) et sporidiis tantum 4-septatis differt.

2. **Berlesiella nigerrima** (Bloxam) Sacc. loc. cit. *Sphæria nigerrima* Bloxam in Currey, On the Fructific. of Comp. Sphær. p. 272, p. p. Berk. et Br. Not. Brit. Fungi n. 869, tab. X, fig. 19, Cooke Hand. Brit. Fungi p. 871, p. p. *Pleospora?* *nigerrima* Sacc. Syll. Pyr. vol. II, pag. 277. — Stromate pulvinato hemisphærico, primo epidermide tecto, dein valde emergente, sublibero, carbonaceo, atro;

peritheciis subsuperficialibus vel stromate basi insculptis discretis vel basi tantum connexis botryoso-prominulis, globoso-conoideis vel ovoideis, ostiolo minuto, subinconspicuo vel obsoleto donatis undique setis rigidis, nigris 40-50 μ . longis, basi 7-8,5 μ . crassis, continuis, apice acutiusculis hirtis, minutis, atris, intus nucleo albido farctis, contextu crasse parenchymatico dense fuligineo; ascis cylindraco-clavatis, apice rotundatis, lumine foveolato, tunica crassiuscula præditis, pseudo-paraphysatis, subsessilibus, 80 \approx 12, octosporis; sporidiis irregulariter distichis vel basi oblique monostichis fusoido-oblongis, subinde utrinque acutiusculis, rectis vel inæquilateralibus, transverse 3-5-septatis (diu pseudoseptatis) ad septa non constrictis, loculo medio uno vel rarius duobus septo longitudinali divisis, guttuligeris, 12-17 \approx 5-6, ex hyalino dilute fuscescentibus.

Hab. in ramis siccis Pruni Padi sæpe parasitice in peritheciis Eutypellæ padinæ in Hungaria, ex herb. Bresadola et in Britannia (BLOXAM, JERDON, BROOME).

3. **Berlesiella setosa** (Ell. et Ev.) Sacc. *Cucurbitaria* E. et E. Proc. 3690 Phil. 1890, p. 241. — Stromate nigro, carnoso, 2-3 mm. diam., convexo; peritheciis dense gregariis, minutis, subglobosis, circ. $\frac{1}{6}$ mm. diam., lateraliter spinulis validis, nigris, patentibus, 25-40 \approx 7 vestitis; ostiolo nunc levi et subpapilliformi, nunc plus minus distincte radiato-sulcato; ascis oblongo-clavatis, 45-55 \approx 12 p. sp., deorsum anguste stipitato-contractis; paraphysibus ascis longioribus, evanescentibus; sporidiis distichis, subrhomboideo-oblongis, hyalinis, initio pluriguttatis, dein flavidis, 3-5-septatis et submuriformibus, 12-15 \approx 4-5.

Hab. parasitica? ad stromata tuberculata, erumpentia *Diatrypes* cujusdam, sociâ *Cornulariâ Persicæ*, in ramis emortuis Pruni, London Canada Amer. bor. (DEARNESS). — Adsunt sub stromatibus perithecia minuta, abortiva, cortice immersa *Diatrypes* vel *Valsæ* cujusdam. — Habitus *Plowrrghtiæ morbosæ*.

CUCURBITARIA Gray. — Sacc. Syll. II, p. 307.

1. **Cucurbitaria Coremæ** Ell. et Ev. in Torr. Bot. Club. 1883, p. 89. 3691 — Peritheciis primum epidermide tectis, demum liberis, ovatis, nigris, rugosis, 160-330 μ . diam., ostiolis late papilliformibus vel obtuse conoideis; ascis cylindracois, 150 \approx 15; sporidiis monostichis vel oblique aut partim distichis, ellipsoideis vel oblongo-ellipsoideis,

primo luteis demum brunneis, circiter 7-septatis, nonnullis septulis longitudinalibus, imperfectis divisis, medio constrictis, 20-25 \approx 7-9.

Hab. in ramis emortuis *Coremæ Conradii*, Willow Grove in America boreali.

2. **Cucurbitaria Platani** Tavel Beitr. Pyren. p. 14, t. 7, f. 13-21. — 3692

Stromate orbiculari circ. 2 mm. diam., subcorticali; peritheciis irregulariter ampulliformibus, ostiolo v. papilla destitutis, corticem perforantibus, vix prominulis; contextu nigro; ascis cylindraceutis, supra obtusis, deorsum in stipitem brevem abrupte attenuatis, 8-sporis; sporidiis pallide brunneis, ellipsoideis, medio valde constrictis, plerumque transverse 6-septatis, septis longitudinalibus, numero vario, percursis, 18-25 \approx 9-11.

Hab. in ramis *Platani* dejectis in Germania. — Adsunt pycnidia in eodem stromate, sporulis minutissimis, cylindraceutis, hyalinis.

3. **Cucurbitaria Rhamni** (Nees) Fuck., Sacc. Syll. Fung. II, p. 315 — 3693

var. **Viburni** Sacc. Myc. Siber. p. 18, f. 16. — Peritheciis obtusis sed vix umbilicatis, rugulosis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam.; ascis 100-115 \approx 10-12; sporidiis ellipsoideo-oblongis, 5-7-septato-muriformibus, medio profundius constrictis, 20-22 \approx 8-10.

Hab. in ramis *Viburni Opuli* in silvis prope Petroschilowo Sibiricæ (MARTIANOFF).

4. **Cucurbitaria Spartii** (Nees) Ces. et De Not. — Syll. II, p. 312 — 3694

f. **Evonymi** Rehm Ascom. n. 682, Cooke f. brit. I, p. 683. — Peritheciis parenchymaticis, brunneis, hyphis numerosis, parce ramulosis et septatis, circ. 5-6 μ . cr. præditis; ascis cylindraceutis, 6-8-sporis, 180 \approx 15; paraphysibus ramosis; sporidiis monostichis, obovatis v. elongatis, primo 2-ocularibus, dein medio constrictis, parte superiore sublatiore obtusioreque, parte inferiore plerumque in loculos 3 divisa, loculis omnibus longitudinaliter divisis, raro 2-3-ocularibus, flavis, 27 \approx 11.

Hab. in ramis *Evonymi*, Britannia.

5. **Cucurbitaria? antarctica** Speg, F. Fueg. n. 265. — Peritheciis cæ- 3695

spitose e rimulis peridermii erumpentibus, acervulos transverse ellipticos, pulvinato-fragariiformes majusculos, 2-5 \approx 1-2 mm. efformantibus, globoso-obovatis, superne applanato-subumbilicatis ac ostiolo minuto, papilliformi ornatis, atris, glabris, coriaceis; contextu indistincto; ascis.....; sporidiis..... non visis.

Hab. vulgatissima sed semper sterilis ad ramos dejectos *Fagi betuloidis* in Staten island et Fuegia Amer. austr.

6. **Cucurbitaria Ravenelii** Cooke et Mass. Grev. XVI, p. 25. — Pe- 3696

ritheciis subcutaneis, erumpentibus, cæspitosis, atris, subglobosis, papillatis, stromate pulvinato insidentibus; ascis cylindraceutis, 8-sporis; sporidiis lanceolatis, 3-5 septatis, loculis transverse divisis, olivaceis, $50 \approx 15-18$.

Hab. in ramis *Ailanthi glandulosæ*, Aiken Carolina austr. Americæ bor. (RAVENEL).

7. **Cucurbitaria Rutæ** H. Fab. Sphér. Vaucl. II, p. 68, f. 51. — Peritheciis glomerulos epidermidem erumpentes efformantibus, vertice deplanatis et umbilicatis, $\frac{1}{2}-\frac{2}{3}$ mm. latis; ascis cylindraceutis longe et sensim attenuatis, 8-sporis, parte spor. $150 \approx 13$; sporidiis monostichis, oblongis, utrinque obtusis, medio constrictulis, flavis, 3-septatis et rarius 5-7-septatis; loculis plerisque septulo longitudinali divisis, $25-28 \approx 10-12$. — Fungus stylosporus: (*Camarosporium Rutæ*). Peritheciis globoso-mammæformibus, subtile papillatis, in glomerulos epidermide cinctos aggregatis, $\frac{1}{3}-\frac{1}{2}$ mm. latis, stylosporis oblongis utrinque obtusis, brunneolis, 3-septatis cum septulis 1-2 longitudinalibus, $16-18 \approx 7-9$.

Hab. ad caules exaridos *Rutæ angustifoliæ*, Vacluse Galliæ.

8. **Cucurbitaria Mahoniæ** Rich. Cat. Champ. Marn. n. 1399. — Peritheciis sub epidermide lacerata gregariis, stromate nigro, extenso insidentibus, globosis, tuberculatis; ascis cylindraceutis; sporidiis flavis, dein brunneis, ovoideo-oblongis, medio constrictis, 6-8-septato-muriformibus.

Hab. in ramulis *Mahoniæ Aquifolii*, sociâ *Diaporthe crassiusculâ*, St.-Amand Marne Galliæ.

9. **Cucurbitaria Pruni-avium** Allesch. Suedbay. Pilz. p. 174, t. I, f. 6. — Peritheciis globosis, nigris, rugosulis, ostiolo minuto, papilliformi, dein pertuso præditis, in cæspites elongatos gregariis, e rimis corticis transversis, lanceolatis erumpentibus; ascis clavatis v. cylindraceutis, breviter stipitatis, circ. $200 \approx 16$; sporidiis octonis; sporidiis plerumque oblique monostichis, elongatis, medio constrictis, muriformi-pluriseptatis, luteis, $30 \approx 12$.

Hab. in ramulis *Pruni avii* pr. Stain in Bavaria austr.

10. **Cucurbitaria Pruni-Mahaleb** Allesch. Suedbay Pilz. p. 174, t. I, f. 7. — Peritheciis magnis, nigris, granuloso-rugosis, ostiolo depressis, in cæspites parvos, rotundos, 2-12-gregariis; ascis sporidiisque immaturis observatis.

Hab. in ramis siccis *Pruni Mahaleb* pr. München Baviariæ (SCHNABL). — A *C. bicolori* diversa.

11. **Cucurbitaria salicina** Fuck. — Sacc. Syll. II, p. 320. — Var. **populina** Bacc. et Avett. Contr. Mic. Rom. pag. 19, t. I, fig. 13-17. — 3701
A typo differt præcipue sporidiis ovoideo-oblongis, medio non constrictis, brevioribus crassioribusque, 18-20 \approx 9-11, nec non matrice.
Hab. in ramis exsiccatis Populi, sociâ *Diplodiâ salicinâ*, Roma Ital. merid.
12. **Cucurbitaria conglobata** (Fr.) Ces. et De Not., Syll. II, pag. 313, Rostr. F. Groenl. p. 566. — Sec. Rost. loc. cit. asci 130-150 \approx 14-18; sporidia monosticha primo 3-septata flava, mox 5-7-septato-muriformia, fusca, 24-30 \approx 11-12. — Nascitur quoque in Betula in Groenlandia. — ***C. Alni** Sacc. in Mout. Ascom. Lièg. II. p. 184. — Ascis clavato-teretibus, 110 \approx 15; sporidiis subdistichis v. oblique monostichis, ellipsoideis, medio leniter constrictis, 22-24 \approx 10-12, olivaceo-fuligineis, 7-septatis, muriformibus. In caudicibus emortuis Alni glutinosæ in silva pr. Liège Belgii.
13. **Cucurbitaria Fraxini** Ell. et Ev. Proc. Phil. 1890, pag. 241. — 3702
Peritheciis globosis, asperis, nigris, intus albis, 0,5 mm. diam., supra depressis, ostiolo papilliformi, 8-12 in cæspites compactos epidermide rupta cinctos confertis, corticis interioris superficie insidentibus; ascis cylindraceis, parte spor. circ. 150 \approx 12-15, basi brevi, stipitiformi præditis, copiose paraphysatis; sporidiis monostichis vel subdistichis, ovato-oblongis, medio constrictis, 5-6-septatis et muriformibus, flavido-brunneis, 25-30 \approx 10-14.
Hab. in cortice emortuo Fraxini, London Canada Amer. bor. (J. DEARNESS).
14. **Cucurbitaria Astragali** Karst. et Har. Rev. Myc. 1890. — Peri- 3703
theciis stromate tenui, dematiaceo insidentibus, in cæspites vulgo oblongatos, minores, transversim vel longitudinaliter per peridermium erumpentes confertis, globulosis, ovoideis v. mutua pressione difformibus, fusco-atris vel atris, initio sub lente minutissime furfuraceis, subastomis, coriaceo-membranaceis, contextu parenchymatico, fuligineo (sub lentè), circ. 0,4 mm. diam.; ascis cylindraceis, circ. 150 \approx 10-12; sporidiis octonis, monostichis, oblongato- v. elongato-fusoideis, rectis, ad medium constrictis, 3-7-septatis, interdum loculo uno alterove septulo longitudinali diviso, flavis, 22-30 \approx 7-10; paraphysibus haud bene discretis. Status pycnidicus: *Hendersonia Astragali* Karst. Peritheciis iis ascophoris immixtis iisdemque minoribus, rotundatis, atris; sporulis cylindraceis, utrinque obtusissimis, 1-3, raro 4-septatis, rectis, rarius leviter curvulis, fuligineis, loculis uniguttulatis, 12-25 \approx 3-7.

Hab. ad caules *Astragali monspessulani* apud Massiliam Galliæ (LEVEILLÉ sub *Diplodia acervata* Lév. in herb. Mus. Pers.).

15. **Cucurbitaria Amorphæ** (Wallr.) Fuck. — Sacc. Syll. II, p. 311. — Asci longe pedicellati, 155-175 \approx 12-16; sporidia monosticha, 5-7 transverse septata, muriformia, medio subconstricta, 21-30 \approx 9-11.
16. **Cucurbitaria longitudinalis** Peck in 33 Rep. St. Mus. pag. 34, 3704 tab. 2, fig. 23-26. — Peritheciis 500-750 μ . diam., subglobosis, in series longitudinales dispositis, in rimis corticis, nigris, apice perforatis; ascis cylindraceis; sporidiis monostichis, 4-5-septatis, 1-2 septis longitudinalibus divisus, coloratis, 28-32 \approx 10-12,5.
Hab. in caulibus *Andromedæ ligustrinæ*, Center in America boreali.
17. **Cucurbitaria delitescens** Sacc. Syll. II, p. 311, ***Prunorum** Sacc. 3705 in Misc. Myc. I, p. 5. — Peritheciis in cæspitulos collectis, transverse erumpentibus, globosis subinde confluentibus, obtuse papillatis, minutis, atris, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam.; ascis tereti-clavulatis, paraphysatis, breve stipitatis, 170 \approx 20-25 p. sporif., octosporis; sporidiis oblique monostichis, obovato-ellipsoideis, apice obtusioribus, 28-32 \approx 15, 7-septatis denseque muriformibus, ad septum medium manifeste, ad cetera vix constrictis, 25-32 \approx 12-15, olivaceo-fuligineis.
Hab. in ramis corticatis *Pruni spinosæ* prope Troyes Galliæ (BRIARD). — A typo præcipue sporidiis majoribus differt.
18. **Cucurbitaria acervata** Fr. — Sacc. Syll. II, p. 313, Winter in Hedwigia 1886, pag. 105. — Asci 120-160 \approx 14-16; sporidia 5-7 transverse septata, in longitudine septo uno et sæpe imperfecto divisa, fusca, 19-21 \approx 8-9.
19. **Cucurbitaria Negundinis** Winter in Hedwigia 1886, pag. 105, *Cucurbitaria Ailanthi* Rab. F. Eur. n. 1833, Sacc. Syll. II, p. 315. — Perithecia plerumque conferta, mox superficialia, demum subumbilicata, scabra, nigra $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam.; asci 4-6-8-spori, 140-180 \approx 14-16; sporidia monosticha, oblonga, utrinque acutiuscula, medio constricta, sæpe inæquilaterialia, aureo-fusca, 7-septata, muriformia, 26-30 \approx 10-11; paraphyses filiformes. — In *Negundine*!
20. **Cucurbitaria Cingarus** Schulz. et Sacc. in Rev. Myc. 1884, Schulz. 3706 Ill. Fung. Slav. n. 797. — Peritheciis hinc inde cæspitose aggregatis, initio peridermio tectis, dein erumpentibus, globoso-depressis, minutulis, $\frac{1}{3}$ mm. vix diam., subcarbonaceis, opace nigris, ostiolo impresso minuto; ascis tereti-clavulatis, paraphysatis, octosporis, subsessilibus; sporidiis subdistichis, subellipticis, utrinque obtuse

acutatis, 30-38 \approx 12-15, 5-septatis parceque muriformibus, ad septa vix constrictis, melleis.

Hab. in ramis corticatis Coryli Avellanæ prope Vinkovce Slavoniæ. — Adsunt perithecia spermogonica subsimilia (*Phoma Cingarus*), sporulis subglobosis vel ovoideis, 4 μ . longis, hyalinis; basidiis triplo longioribus suffultis.

21. **Cucurbitaria Dulcamaræ** Fr. — Sacc. Syll. II, p. 321, Winter in Hedwigia 1886, p. 105. — Perithecia acervulos vel cæspites minutos, rotundatos, ellipticos seu oblongos, sæpe confluentes elongatosque, erumpentes formantia, mox depressa et collapsa, nigra; asci cylindranei, deorsum attenuati, 8-spori, 130-160 \approx 12-14; sporidia monosticha, oblonga, medio subconstricta, 3-8 transverse septata, sepimento uno, plerumque imperfecto in longitudine, 19-25 \approx 9-10,5 rarius 35 μ . longa; paraphyses filiformes.

22. **Cucurbitaria umbilicata** Ell. in Torr. Bot. Club. 1883, p. 53. — 3707 Peritheciis sparsis, depresso-hemisphæricis, nigris, rugosis, 330-500 μ . diam., sursum siccitate collapsis; ascis cylindraneis, 114 \approx 11; sporidiis sæpe monostichis, ellipsoideis, primo 3-septatis, medio constrictis, luteis, dein muriformibus, brunneis, 22-28 \approx 9 $\frac{1}{2}$ -13.

Hab in caule decorticato Artemisiæ, Utah Amer. borealis (HARKNESS).

23. **Cucurbitaria Kelseyi** Ell. et Ev. Proc. Phil. 1890, p. 240. — Pe- 3708 ritheciis magnis, $\frac{3}{4}$ -1 mm. diam., rugosis, subglobosis, supra rotundatis, ostiolo papilliformi præditis, e corticis rimis in cæspites elongatos erumpentibus, confertis vel subconfluentibus, subtus stromate parco, griseolo-nigro connexis; ascis cylindraneis, deorsum in stipitem brevem contractis, 170-180 \approx 15-20, copiose filiformi-paraphysatis; sporidiis 1-stichis, oblongo-ellipsoideis, stramineis, medio constrictis, septis primariis 3, additis 4-6 secundariis tenuioribus, muriformibus, 25-30 \approx 14-16, initio utrinque obtuse acuminatis, demum rotundatis.

Hab. in cortice Philadelphi Lewisii? Helena Montana Amer. bor. (Rev. F. D. KELSEY). — Adsunt perithecia subovoidea, ostiolo brevi, conico-cylindraneo, sporulis 1,5-2 \approx 0,5. *C. Berberidis* valde affinis.

THYRIDIDIUM Sacc. Syll. II, p. 323.

1. *Eu-Thyridium*. Sporidia colorata.

1. **Thyridium Garryæ** (Cooke et Hark.) Berl. et Vogl. Add. Syll. p. 184, 3709 *Sphæria Garryæ* Cooke et Harkness in Grevillea XIII, p. 20. —

Gregarium sparsumve; peritheciis semiimmersis, subglobosis, atris, $\frac{1}{2}$ mm. diam., poro pertusis; ascis cylindræis, 4-8-sporis; sporidiis ellipticis, 7-septatis muriformibusque, hyalinis, demum flavidofuscis, 40-45 \times 15-18, episporio crasso, hyalino.

Hab. in ramis decorticatis, dealbatis Garryæ in California (HARKNESS).

2. **Thyridium antiquum** (Ell. et Ev.) Berl. et Vogl. Add. Syll. p. 185. 3710

Sphæria antiqua Ell. et Ev. in Torr. bot. Club. 1883, p. 91. — Peritheciis sæpe solitariis, globosis, 250-330 μ . diam., 2-3-gregariis, cortice immersis atque fibris corticis, sursum nigrescentis, tectis eumque in pustulas tuberculiformes elevantibus, ostioliis papilliformibus, demum perforatis; ascis cylindræis, 75-80 \approx 10; paraphysibus filiformibus, copiosis; sporidiis monostichis, oblongo-ellipsoideis, demum triseptato-muriformibus, 17-19 \approx 7, brunneis.

Hab. in cortice interiore truncorum *Vitis viniferæ*, Newfield Amer. bor.

3. **Thyridium personatum** (Cooke et Hark.) Berl. et Vogl. Add. Syll. 3711

p. 185, *Sphæria personata* Cooke et Harkn. in Grevillea XIII, p. 20. — Lignicolum; peritheciis sparsis in tuberculo ligneo, ellipsoideo, elevato, griseo vel nigrescente nidulantibus, ostiolo brevi, vix conspicuo, pertuso; ascis cylindræis, octosporis; sporidiis uniseriatis, ellipticis, medio constrictis, triseptatis, septis 1-2-longitudinalibus percursis, læte brunneis, 18-20 \approx 10.

Hab. in ligno decorticato *Acaciæ* in California (HARKNESS).

2. *Thyridella* Sacc. Sporidia hyalina.

4. **Thyridium Philadelphi** Rich. Cat. Champ. Marne n. 1403. — Pe- 3712

ritheciis sub epidermide gregariis, subastomis, cupulato-collabascenscentibus, in stroma brunneum, tenue, ellipsoideum, byssoideum dispositis; ascis cylindræis; sporidiis 1-stichis, ellipsoideis, 5-7 septis transversis, 1 tantum longitudinali.

Hab. in ramulis *Philadelphi coronarii*, St.-Amand Marne Galliæ, socio *Camarosporio macrosporo*.

5. **Thyridium Colliculus** Cooke Trans. Roy. Soc. Edin. 1887, p. 391. 3713

— Peritheciis subglobosis, minimis, in stromate nigrofacto elevato elliptico (4 \approx 1 mm.) congestis, immersis, ostioliis punctiformibus; ascis clavatis cylindræisque octosporis; sporidiis uni- vel biseriatis ellipticis, 5-septatis, muriformibus, hyalinis, 20 \approx 10.

Hab. in ligno, Socotra.

FENESTELLA Tul. — Sacc. Syll. II. p. 325.

1. **Fenestella callispora** (Duby) Cooke in Grev. XIV, p. 48, *Sphæria* 3714
callispora Duby in herb. Curtis. — Immersa, pustulata, erumpens, epidermide fissa tecta; peritheciis paucis, minutissimis, globosis, congestis; ostiolis subnullis; ascis clavatis; sporidiis elliptico-acuminatis, magnis, biserialibus, quinquesepatis muriformibusque, luteo-fuscis, 30-40 \approx 18.

Hab. in ramis Broussonetiæ papyriferae, Genève Helvetiæ.

2. **Fenestella hormospora** (Berk. et Curt.) Cooke in Grevillea XIV, 3715
pag. 48, *Valsa hormospora* Berk. et Curt. in Herb. Berk. *Valsa conjuncta* Schwein. Amer. n. 1383 (nec Fries). — Peritheciis paucis, in circulos irregulares confertis, disco erumpente, orbiculari, albido, pulverulento; ostiolis brevibus, subconjunctis; ascis amplis, clavatis; sporidiis subellipticis, utrinque muticis, medio contractis, 5-septatis, demum merenchymaticis, fuscis.

Hab. in ramis, Bethlehem Amer. bor.

3. **Fenestella Platani** Tavel Beitr. Pyren. p. 7, t. 7, f. 6-12. — Pe- 3716
ritheciis gregariis, stromate immersis, collo longo, emerso præditis; ascis cylindræis, supra obtusis, deorsum in stipitem brevem, tenuem abrupte contractis, 8-sporis; sporidiis ovoideis, atro-brunneis, vulgo transverse 3-septatis, loculis 2 mediis oblique 1-septatis, 14-18 \approx 5-9.

Hab. in ramis dejectis Platani, sociâ *Disculâ Platani* in Germania. — Status pycnidiophorus sistit *Cytosporam*, pycnidiis pluribus in eodem stromate immersis, sporulis continuis, hyalinis, nunc 3-4 \approx 1-2, nunc 12 \approx 5.

4. **Fenestella schistostroma** (Duby) Cooke in Grevillea XIV, p. 48, 3717
Sphæria schistostroma Duby in Rab. Fungi Eur. n. 53 et Sacc. Syll. II, p. 441. — Immersa, demum erumpens, epidermide cincta; peritheciis 5-15 aggregatis, ovatis, verticalibus inclinatisve, stromate nigro, inæquabili, primum compacto, demum in fragmenta plura diffisso, tectis, ostiolis vix prominulis, sæpe obsoletis; ascis cylindrico-elongatis rigidis; sporidiis uniserialibus, ovoideo-ellipsoideis, primo uni-demum 3-5-septatis, et tandem merenchymaticis, hyalinis.

Hab. in ramis Ribis aurei, Genève Helvetiæ.

5. **Fenestella amorpha** Ell. et Ev. Journ. Myc. 1888, p. 58 et Proc. 3718
Phil. 1890, p. 239. — Stromate tuberculiformi, ligno insidente, magnitudine ab 1 mm. et tunc perithecio unico, usque ad 3-4 mm.

et tunc peritheciis 4-6, subinde per 1 cm. vel ultra seriato-confluentibus, nigris; ostiolis brevibus, vix prominulis, 0,5 mm. long., cylindræis, convergentibus sed non in discum coalitis; contextu perithecorum albo; ascis cylindræis, basi angustis, 150-175 \approx 12-15, p. sp. 100-110 \approx 12-15, copiose paraphysatis; sporidiis monostichis, 5-6-septatis, septo longitudinali percursis, ad septa non constrictis, 20-25 \approx 10-14, atro-brunneis, demum subopacis.

Hab. in ramis emortuis Caryæ, Lyndonville, New York Amer. bor. (Doct. C. E. FAIRMAN).

Sect. 9. Scolecosporæ.

OPHIOBOLUS Riess. — Sacc. Syll. II, p. 337.

1. *Eu-Ophiobolus*. Perithecia non setosa. Sporidia in articulos vix secedentia.

1. **Ophiobolus olivaceus** (Ellis) Berl. et Vogl. Add. Syll. p. 186, *Leptosphaeria olivacea* Ellis in Torr. Bot. Club. 1188, p. 53. — Peritheciis submembranæis, circiter 250 μ . diam., substantia caulis immersis, epidermide vix elevata olivaceo-brunnea, ostiolo late rugoso, obtuso perforata tectis; ascis clavatis, 75-85 \approx 15-18; sporidiis stipatis, luteo-brunneis, vermiformibus, 6-7-septatis, demum ad septa leniter constrictis, 75 \approx 3 $\frac{1}{2}$ -4, loculo tertio, ab apice leniter inflato.

Hab. in caulibus herbæis, Utah Amer. bor. (HARKNESS).

2. **Ophiobolus florentinus** Berl. Pug. F. Fior. p. 18, t. II, fig. 1. — Peritheciis sparsis v. vix gregariis, conoideis globosove conoideis v. in ostiolum cylindræum, longiusculum, crassiusculum late pertusum, epidermidem perforans desinentibus, atris, coriacellis, demum collabascendo concavis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., nitidis, levibus, primo tectis dein epidermide secedente liberis; ascis cylindræis, rectis v. flexuosis aparaphysatis, subsessilibus, 130-140 \approx 7-8, octosporis; sporidiis ascum subæquantibus, 120-130 \approx 2-3, pluriguttulatis, dein pseudo-pluriseptatis, vulgo sinuosis, in articulos secedentibus, e luteolo hyalinis.

Hab. in caule herbæo putri pr. Firenze Ital. med.

3. **Ophiobolus immersus** Trail Trans. Crypt. Scot. 1889, p. 43 et Fung. Hard. p. 492. — Peritheciis sparsis, immersis, ostiolo brevi tantum emergente; ascis octosporis, cylindræis 70 \approx 6; sporidiis cylindræis, 50-60 \approx 2, hyalinis, pluriguttulatis, subinde obsolete pluriseptatis.

Hab. in caulibus emortuis *Campanulæ latifoliæ* (et *Urticæ*?) Simodal Hardanger Norvegiæ.

4. **Ophiobolus Jacobææ** Oud. *Microm. nouv.* I, pag. 1. — Peritheciis 3722
epidermide tectis, numerosissimis, sparsis vel subcæspitosis, $\frac{1}{3}$ - $\frac{1}{2}$
mm. diam., ostiolo acuto epidermidem perforantibus matricemque
quodammodo asperantibus; ascis clavatis, 90-130 \approx 12, breve pe-
dunculatis, 8-sporis; sporidiis distichis, lineari-fusoideis, vulgo cur-
vatis, imo semilunaribus, levissime fuscescentibus, 6-8-septatis, lo-
culo medio juxta medium inflatulo, 45-55 \approx 4,6.

Hab. in caulibus *Senecionis Jacobææ*, Scheveningen Neer-
landiæ (Dom.^a C. E. DESTRÉE). — Ab *O. Urticæ* et *O. collapse* spo-
ridiis brevioribus etc. dignoscitur.

5. **Ophiobolus Georginæ** (Fuck.) Sacc. *Syll.* II, p. 341, *Wint. Hedw.*
1887, p. 61. — Perithecia globoso-conoidea, crasse scutellata, 400
 μ . lat., 500-530 μ . alta; asci 110-140 \approx 3,5; sporidia flavida, ascos
subæquantia, 0,7 μ . cr.
6. **Ophiobolus Tanaceti** (Fuck.) Sacc. *Syll.* II, p. 348, *Wint. Hedw.*
1887, p. 61. — Asci 105-125 \approx 14-16, clavati; sporidia cylindrica,
pluriseptata, flavida, ascos subæquantia, 3,5 μ . cr.
7. **Ophiobolus vulgaris** Sacc. *Syll.* II, p. 338, — Var. **Gnaphalii** Sacc. 3723
et Br. in *Rev. Myc.* 1885. — Peritheciis innatis, conico-globosis,
 $\frac{1}{3}$ mm. diam., tomento matricis immersis, ostiolo papillato, pro-
minulo; ascis cylindræo-clavatis, sessilibus, basi nodosulis, octo-
sporis, 120-132 \approx 6-7; paraphysibus crassis, simplicibus, paucis; spo-
ridiis fasciculatis parallelis, luteis, filiformibus, curvis v. flexuosis,
multiguttulatis vel multiseptatis, 108-124 \approx 2-3.

Hab. in caulibus exsiccatis *Gnaphalii silvatici*, Troyes
Galliæ (BRIARD). — Var. **intermedius** Berl. *Exc. Frioul.* p. 16. —
A typo differt peritheciis, ascis sporidiisque majoribus, ostiolo sub-
inde elongato et perithecium subæquante, nitido. — In caulibus
emortuis *Umbelliferæ* cujusdam Osoppo Friuli. — Perithecia
 $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; asci 120-140 \approx 7-8; sporidia 110-120 \approx 1-1,5
pseudo-pluri-septata, in asco luteolo.

8. **Ophiobolus Rhagadioli** Passer. *Diagn. Fung. nuovi*, III, n. 39. — 3724
Peritheciis sparsis, tectis, minutis, pustulæformibus, ostiolo brevi
vix erumpente; ascis paraphysatis, cylindricis, 8-sporis, 100-125 \approx
5-6; sporidiis ascos subæquantibus, tenuissimis, continuis, hyalinis,
in asci lumine vix flavidulis.

Hab. in caulibus, ramis acheniisque *Rhagadioli stellati*
in horto botanico, Parma Ital. bor. — Accedit spermogonium pe-

ritheciis similibus, interdum subgregariis, sporulis cylindricis, 3-4-guttulatis, 10-12 \approx 1,3.

9. **Ophiobolus capitatus** Passer. Diagn. Fung. nuovi n. 66. — Peri- 3725
 theciis basi plana ligno adnatis, tectis, ostiolo atro globoso, basi contracto, tantum emergente, dein epidermide consumpta nudatis, contextu parenchymatico fuligineo; ascis cylindrico-clavatis, non v. spurie paraphysatis, 100-120 \approx 7,5; sporidiis filiformibus, curvis, multinucleatis, denique multiseptatis, hyalinis, 75-85 \approx 2,5.

Hab. in ramulis aridis Santolinæ Chamæcyparissi in horto botanico, Parma Ital. bor. — Ostiolo capitato facile dignoscenda species.

10. **Ophiobolus clavisporus** Passer. Diagn. Fung. nuovi p. 7. — Pe- 3726
 ritheciis gregariis, secus matricis strias ut plurimum seriatis, tectis, ostiolo acuto, epidermidem perforantibus, dein nudatis, carbonaceis, atris; ascis tubulosis, breviter attenuato-stipitatis, 8-sporis, 150-175 \approx 10; paraphysibus filiformibus, guttulatis stipatis; sporidiis bacillari-clavulatis, rectis v. curvulis, pluriseptatis, loculis interdum guttulatis, secundo pone extremum crassiorem inflato, flavidis, 35-75 \approx 2,5-3.

Hab. in caule sicco Cirsii lanceolati pr. Vigheffio, Parma Ital. bor. — Sporidiorum fabrica et brevitate facile dignoscenda species.

11. **Ophiobolus Galii** Rich. Cat. Champ. Marn. n. 1418. — Peritheciis 3727
 sphæricis, minutis, sparsis, parcis; ascis cylindræis; sporidiis spiraliter fasciculatis, hyalinis.

Hab. in caule Galii Molluginis St. Amand Gallia. — Affinis *O. helicosporo*.

12. **Ophiobolus pastinaceus** H. Fab. Sphér. Vaubl. II, p. 63. — Pe- 3728
 ritheciis sparsis, macula fuligineo-atra v. purpurascente insidentibus, erumpentibus, globoso-mammæformibus, $\frac{1}{3}$ - $\frac{1}{2}$ mm. latis, ostiolo conoideo, rostellato; ascis cylindræis, 8-sporis, 210 \approx 5; sporidiis bacillaribus, hyalinis, guttulatis ascis longitudine 1,5 μ . lat.

Hab. ad caules exsiccatos Pastinacæ sativæ, in pratis Vauclose Gallia. — Ab *Oph. rubello* præcipue sporidiis longioribus et hyalinis differt.

13. **Ophiobolus Asclepiadis** H. Fab. Sphér. Vaubl. II, p. 62. — Pe- 3729
 ritheciis sparsis, minimis, punctiformibus, ligno vel cortici immer- sis, ostiolo rostellato, per corticem erumpente; ascis cylindræis, basi attenuatis, 8-sporis, 120-150 \approx 5-6; sporidiis hyalinis, angustissimis, latitudine inconspicua (an maturis?),

Hab. ad caules putrescentes *Asclepiadis Cornuti*, in insulis Rhodani Galliæ.

14. **Ophiobolus Niesslii** Bäuml. Crypt. Presb. p. 57, *Ophiobolus incomptus* Niessl in Linh. Fung. hung. n. 472, nec Car. et De Not. 3730
— Peritheciis disseminatis, sub epidermide pallescente, globosis, vix depressis, 0,26-0,30 mm. diam., atris, glabris, ostiolo conico, mox brevi, apice rotundato; ascis cylindræis, in stipitem brevem attenuatis, 115-135 \approx 9-10, octosporis; sporidiis stipatis, filiformibus sed inferne leniter angustatis, 15-17(plerumque 16)-cellularibus, loculo quarto vel quinto sæpe nodoso, parum flexuosis, dilute lutescentibus, 95-110 \approx 3; paraphysibus simplicibus vel laxe ramosis.

Hab. in caulibus emortuis *Dipsaci silvestris*, *Petrozseny Hungariæ*.

15. **Ophiobolus cannabinus** Passer. Diagn. Fung. nuovi, III, n. 41. — 3731
Peritheciis sparsis, ligno infuscato immersis, ostiolo conico vix erumpente; ascis paraphysatis, cylindricis, subsessilibus, 8-sporis, 85 \approx 5; sporidiis filiformibus æqualibus, continuis, hyalinis, 65-85 \approx 1-1 $\frac{1}{4}$.

Hab. in caulibus humifusis *Cannabis*, Langhirano in provincia Parmensi Ital. bor. — Peritheciis ligno omnino immersis præcipue distinguenda.

16. **Ophiobolus Humuli** Karst. in Hedw. 1884, n. 6, p. 2, Rev. atque 3732
Synop. Ascom. fenn. pag. 28. — Peritheciis subgregariis, denique subsuperficialibus, subsphæroideis v. sphæroideo-conoideis, subinde leviter depressis, atris, filamentis griseis obsessis, ostiolo conoideo vel cylindræo, peritheciæ diametrum sæpe æquante, 3 mm. lat.; ascis cylindræo-clavatis, 90-120 \approx 7-10; sporidiis octonis, filiformibus, æqualibus, curvatis, pluriguttulatis, dilute luteolis, 75-90 \approx 2; paraphysibus parcis, 2-3 μ . crass.

Hab. in caulibus aridis *Humuli Lupuli* ad Mustiala Fenniæ.

17. **Ophiobolus hormosporus** Passer. Diagn. Fung. nuovi, III, n. 40. 3733
— Peritheciis sparsis, cortici immersis, ostiolo acuto, atro plus minusve erumpente; ascis paraphysatis, clavatis, inferne attenuatis et undulato-stipitatis, 4-8-sporis, 100-130 \approx 12-15; sporidiis bacillari-clavatis, ascos subæquantibus, superne 5 μ . crassis, multi-septatis, ad septa plus minus constrictis, in asci lumine flavidis, ejectis hyalinis, articulis subglobosis sæpe guttulatis, altero vel pluribus ex intermediis crassioribus; paraphysibus filiformibus non guttulatis.

Hab. in ramis siccis *Salviæ officinalis*, sociâ sæpe *Leptosphaeriâ Salviæ* in horto bot. Parma Ital. bor.

18. **Ophiobolus Resedæ** Passer. Diagn. Fung. nuovi, III, n. 38. — 3734

Peritheciis crebre sparsis, minutis, tectis, ostiolo conico acuto emerso, basi dematiaceo-fibrillosis; ascis aparaphysatis, cylindricis, inferne longissime attenuatis, 8-sporis, 65-112 \approx 5; sporidiis filiformibus, tenuissimis continuis, ascorum partem cylindricam subæquantibus, in asci lumine flavidis, ejectis hyalinis.

Hab. in caulibus putridis *Resedæ luteæ*, Vigheffio pr. Parmam Ital. bor. — Ad *Ophiobolium Hesperidis* accedere videtur, sed peritheciis basi fibrillosis, ostiolo vix emerso et ascis longe attenuatis satis differt.

19. **Ophiobolus Urticæ** (Rab.) — Sacc. Syll. II, p, 338. — Var. **Cle-** 3735

matidis Berl. Exc. Frioul pag. 17, t. 9, fig. 10. — A typo differt peritheciis cupulatis; sporidiis hyalinis, 120-130 \approx 3-4, obsolete 18-20-septatis.

Hab. in sarmentis emortuis *Clematidis Vitalbæ*, Osoppo Friuli. — Ab *Oph. Vitalbæ* probe diversus.

20. **Ophiobolus Clematidis** Passer. Diagn. Fung. nuovi, I, n. 65. — 3736

Peritheciis sparsis, globulosis, tectis, ostiolo cylindrico, acuto, emerso; ascis non v. brevissime paraphysatis, cylindricis, tortuosis, 90 \approx 6; sporidiis filiformibus, continuis v. remote obscure septulatis, ascos subæquantibus, hyalinis, 1,5 μ . crassis.

Hab. in caulibus putridis *Clematidis Vitalbæ*, Vigheffio pr. Parmam Ital. bor. — Sporidiis hyalinis non guttulatis, brevioribusque ab *Ophiobolo vulgari* videtur differre.

21. **Ophiobolus consimilis** Ell. et Ev. Journ. Mycol. 1888, p. 77 (ex 3737

err. 65). — Peritheciis gregariis maculis rubellis plerumque, non semper tamen, insertis, 200-250 μ . diam., matrice immersis, ostiolo obtuse conico, $\frac{1}{2}$ mm. long. emergente; ascis cylindræis, 80-90 \approx 8-9, copiose paraphysatis; sporidiis filiformibus, flavido-hyalinis, subrectis, multinucleatis (an demum pluriseptatis?), 75-80 \approx 2-2,5.

Hab. in caule emortuo *Ochræ* («?»), Louisiana Amer. bor. (LANGLOIS). — Ab *O. porphyrogono* peritheciis minoribus, ascis brevioribus, crassioribus etc. distinguendus.

22. **Ophiobolus stenosporus** Karst. in Hedw. 1183, n. 12, p. 3, Rev. 3738

atque Synop. Ascom. fenn. p. 28. — Peritheciis sparsis, primitus epidermide tectis, dein denudatis, forma variis, ut plurimum sphæroideis, exiguis, basi hyphis sparsis, fuliginis cinctis, ostiolo brevi; ascis cylindræis, 90-116 \approx 6-7; sporidiis octonis, filiformibus,

flexuosis, pluriguttulatis, luteolis, 50-80 \approx 1-1,5; paraphysibus flexuosis.

Hab. in caulibus Scrophulariæ nodosæ emortuis prope Mustiala.

23. **Ophiobolus claviger** Harkn. New Calif. Fungi, pag. 26. — Peritheciis globularibus, ostiolo papillato præditis, gregariis vel sparsis, erumpentibus, demum liberis, $\frac{1}{3}$ -1 mm. diam., initio spermatiiis minutis farctis; ascis lineari-clavatis, octosporis, 210 \approx 14; paraphysibus filiformibus, vacuolatis; sporidiis pallide brunneis, 20-25-septatis, in tertia parte superiori sæpe tumidulis et constrictis, 140 \approx 7.

Hab. in caulibus repentibus Audibertiæ humilis, Folsom Californiæ.

24. **Ophioboïus Morthieri** Sacc. et Berl. Misc. Myc. p. 20, n. 87, t. X, f. 20. — Peritheciis gregariis, globoso-conoideis, atris, ostiolo brevi, nudo, $\frac{1}{2}$ mm. diam., demum detectis, hyphis adpressis, radiantibus, ochraceo-fuliginis, tortuosis, septatis, 4-5 μ . cr. vestitis; ascis cylindræis, breve stipitatis, paraphysatis, 100-120 \approx 8-10 p. spor., stip. 30-35 μ . long. v. brevioribus; sporidiis cylindræo-bacillaribus, 90-100 \approx 2, 8-multiguttulatis, eximie convolutis, ex hyalino dilutissime luteolis.

Hab. ad caules Gentianæ luteæ aux Loges près Neuchâtel Helvetiæ. — Affinis *Oph. persolino* et *O. pellito*, a quibus sporidiis valde curvis et ascis conspicue brevioribus satis differt.

25. **Ophiobolus Hesperidis** Sacc. Syll. II, p. 343. — Var. **Geranii** Karst. in Hedw. 1884, n. 1, p. 3, Rev. atque Synop. Ascom. fenn. p. 27. — Peritheciis innato-emergentibus, subgregariis, ostiolo acuto, conoideo, subinde perithecium dimidium subæquante, exsertis, minutis; ascis anguste cylindræis, subsessilibus, tortuosis, 150-170 \approx 6-7; sporidiis filiformibus, simplicibus vel guttulatis ex hyalino dilute luteolis, fere longitudine asci, 1-1,5 μ . crass.; paraphysibus filiformibus.

Hab. in caulibus emortuis Geranii silvatici ad Mustiala Fenniæ. — Parum vel vix differt ab *Oph. tenello*.

26. **Ophiobolus Periclymeni** (Crouan) Sacc. Syll. II, p. 348, Bäuml. Crypt. Presb. p. 57. — Perithecia cortice infossa, ostiolo minuto; asci 150-180 \approx 8-10; sporidia 130-150 \approx 2-2,5, initio guttulata, dein multiseptata, hyalina. Nascitur quoque in ramis Loniceræ Xylostei in Comit. Presburg.

27. **Ophiobolus Loniceræ** H. Fab. Sphér. Vaucl. II, p. 62. — Perithe-

ciis solitariis, late sparsis basi ligno plus minus insculptis, nunc epidermide tectis, nunc lignum denudatum incolentibus, deorsum globosis, sursum obtuse conoideis, atris rugosiusculis, ostiolo papillato, crassiusculo, $\frac{2}{3}$ mm. diam.; ascis cylindræo-clavatis, basi attenuatis, 8-sporis, $180-220 \approx 12-14$; sporidiis bacillari-filiformibus, utrinque obtusis, hyalinis, 30-40-guttulatis septatisque, asci longitudine, 4-5 μ . cr.

Hab. ad caules exsiccatos *Loniceræ etruscæ*, Vaucuse Galliæ.

28. **Ophiobolus Granati** H. Fab. Sphér. Vaubl. II, p. 63. — Peritheciis sparsis, cortici plus minus infixis, globoso-mammæformibus, $\frac{1}{2}$ mm. latis, ostiolo brevi, conoideo, crassiusculo; ascis cylindræis, brevissime stipitatis; paraphysibus densis et filiformibus obvallatis; 8-sporis, $200 \approx 10$; sporidiis bacillaribus, hyalinis, ascorum fere longitudinem æquantibus, guttulis numerosissimis in seriem moniliformem dispositis præditis, 4-5 μ . lat. 3743

Hab. ad truncos et ramos emortuos *Punicæ Granati*, in sepibus densis, Vaucuse. — *Oph. macrocarpo* Sacc. affinis videtur.

29. **Ophiobolus elæosporus** Sacc. et Paol. Myc. Sibir. p. 191, fig. 14. 3744
— Peritheciis laxè gregariis, subcutaneo-erumpentibus, e globoso obtuse conicis, $\frac{1}{5}-\frac{1}{4}$ mm. lat.; ascis clavatis, apice rotundatis, brevè crasse stipitatis, filiformi-paraphysatis, $145-170 \approx 18-20$, octosporis; sporidiis bacillaribus, utrinque leviter attenuatis, 18-25-septatis, ad septa non constrictis, intense olivaceis, $120-145 \approx 3,5$.

Hab. in ramulis *Thermopsis lanceolatæ* in desertis pr. Gorodok Sibiricæ (MARTIANOFF). — Sporidiis intense coloratis mox distincta species.

30. **Ophiobolus parmensis** Passer. Diagn. Fung. nuovi, III, n. 42. — 3745
Peritheciis subgregariis, ligno denudato insidentibus, globosis, atris, glabris, ostiolo longiusculo cylindrico truncato!; ascis cylindrico-subclavatis, inferne lenissime attenuato-stipitatis, 6-8-sporis, obscure paraphysatis, $112-137 \approx 7,5$; sporidiis filiformibus continuis, non guttulatis, in asci lumine dilute flavidis, ejectis hyalinis, $90-100 \approx 1,3$.

Hab. in ramo sicco decorticato *Fici Caricæ*, sociâ *Diplodiellâ ficinâ*, Parma Ital. bor.

31. **Ophiobolus Antenoreus** Berl. Fungi Mor. Fasc. IV. — Peritheciis globosis, sursum in collum longiusculum, apice pertusum, desinentibus, $\frac{1}{4}-\frac{1}{5}$ mm. diam., tectis, ostiolo non rostellato tantum prominulo, atris; ascis longe cylindræis, rectis vel curvis, sessi-

libus, 180-200 \approx 4, octosporis; sporidiis filiformibus, 10-15-guttulatis, 180-200 \approx 1½, hyalinis vel pallidissime luteis.

Hab. in ramulis emortuis, putridis Mori albæ in Horto botanico Patavino Ital. bor. — Affinis *Oph. Hesperidis*, a quo sporidiis longioribus, guttulis differt. Ab aliis speciebus vero magnitudine ascorum sporidiorumque præcipue distinguendus.

32. **Ophiobolus collapsus** Ell. et Sacc. Syll. II, p. 339. — Var. **mori-** 3747
cola Berl. Fungi Mor. Fasc. IV. — Peritheciis globoso-conoideis, papillatis, dein collapsis, atris, primitus tectis, dein epidermide secedente liberis superficialibusque, minutis, ¼ mm. diam., setis paucis fuliginis basi cinctis; ascis cylindræo-clavatis, sessilibus, 100-110 \approx 8, sursum rotundatis; sporidiis cylindræis, rectis v. curvis, 90 \approx 3, in asco dilutissime flaveolis, 11-13-pseudo-septatis, loculo medio vix incrassato.

Hab. in ramulis emortuis, decorticatis Mori albæ, Carpesica Italiæ borealis.

33. **Ophiobolus staphylinus** E. et E. in Journ. of Myc. I, p. 150. — 3748
Peritheciis minutis, ligni fibris tectis, ostiis nigris rostellatis, subacutis, prominentibus; ascis linearibus, 120-160 \approx 4, 8-sporis; paraphysibus filiformibus; sporidiis filiformibus, luteolis, nucleolatis, ascorum longitudinem æquantibus.

Hab. in ramis decorticatis Staphyleæ trifoliæ, West Chester Amer. bor.

34. **Ophiobolus salicinus** Rostrup Islands Svampe p. 7. — Perithe- 3749
ciis sphæroideis, collabascensibus, atro-fuscis, radiato-striatis, ligno adhærentibus, cortice tectis; ascis cylindræo-clavatis, 80-100 \approx 6-9; sporidiis filiformibus, rectis, hyalinis, pluriseptatis, 50-70 \approx 2; paraphysibus filiformibus.

Hab. sub cortice Salicis glaucæ, Langardak Islandiæ.

35. **Ophiobolus surcolorum** Passer. Diagn. Fungi nuovi, III, p. 7. — 3750
Peritheciis subcutaneis, sparsis v. subgregariis, atris, basi fibrillosis, collabascendo cupulatis, centro papillatis, contextu minute celluloso, fuligineo; ascis cylindræo-clavatis; paraphysibus longis tenuibus stipatis, basi attenuatis, 100-140 \approx 7,5; sporidiis filiformibus, ascos subæquantibus, hyalinis, obscure septulatis, medio noduloso-incrassatis ibique 2,5 μ . cr., apicibus attenuatis.

Hab. in surculis siccis nudis Sambuci nigræ, S. Andrea del Taro prov. Parma Ital. bor. — An ob perithecia collabascensia huc ducenda *Sphæria surculi* Fr. S. M. II, 466?

36. **Ophiobolus byssicola** Harkn. New Calif. Fungi pag. 26. — Pe- 3751

ritheciis globosis, ostiolo prominulo, superficialibus, $\frac{3}{4}$ -1 mm. diam., in subiculo sordide brunneo nidulantibus; ascis octosporis, cylindraceo-clavatis, pedunculo gracili, basi incrassato præditis, $170 \approx 16$; sporidiis pallide brunneis, cylindræis, utrinque obtuse attenuatis, 20-30-septatis, constrictis, $120-140 \approx 4-6$, loculo apicali et uno v. tribus, inæquali intervallo, globuloso-inflatibus.

Hab. in ramis decorticatis Sambuci glaucæ, Blue Canon in California.

37. **Ophiobolus inflatus** Sacc. et Br. in Rev. Myc. 1885. — Peritheciis sparsis, vix conspicuis, cortice immersis, basi hyphis brunneis cinctis, ostiolo obtuso, punctiformi, epidermidem perforante; ascis cylindraceo-clavatis, sessilibus, basi nodulosis, octosporis, $120-160 \approx 8-10$; paraphysibus filiformibus obvallatis; sporidiis fasciculatis, parallelis, filiformibus, pallide luteis, multiguttulatis v. simplicibus, subinde medio annulatim inflatulis, curvis vel flexuosis, $100-140 \approx 3$.

Hab. in ramis emortuis delapsis Betulæ albæ, Troyes Galliæ (BRIARD).

38. **Ophiobolus tenuis** Passer. Diagn. Fung. nuovi, I, n. 67. — Peritheciis crebre sparsis, tectis, conicis, basi plana adnatis v. insculptis, ostiolo cylindrico brevi, obtuso, atro, vix emerso; ascis tubulosis, basi longe attenuatis; paraphysibus numerosis flavidis æquantibus stipatis, tetrasporis, $100 \approx 5$; sporidiis in asci lumine flavidis, pluriseptatis et nucleolatis, $87 \approx 1,3$.

Hab. in ramulo sicco haud determinando, Parma Ital. bor. — *Ophiobolo persolino* videtur affinis, sed perithecia calva et sporidia breviora.

39. **Ophiobolus melioloides** Rich. Sphér. nouv. in Bull. Soc. Bot. Franc. 1885, p. 11, t. XI. — Peritheciis gregariis, superficialibus, ovoideis vel turbinatis, subtomentosis, dilute fuscis, apice nigricante; pilis dematiaceis, septatis, plerumque rectis, perithecia ad basim arcte cingentibus et maculas 2-4 mm. diam. metientes, hirtas, nigro-fuscas, orbiculares, sparsas, in pagina inferiore foliorum efformantibus; ascis cylindræis vel cylindraceo-subclavatis, 8-sporis, 106μ . longis; sporidiis filiformibus, ascos longitudine fere æquantibus, 90μ . longis, dilute flavescens; paraphysibus filiformibus continuis.

Hab. in pag. inf. foliorum plantæ ejusdam in Nova Caledonia.

40. **Ophiobolus antarcticus** Speg. F. Fueg. n. 266. — Maculis nullis; peritheciis hypophyllis sparsis v. laxè gregariis, e globoso conoi-

deis, epidermide velatis, prominulis, 120-150 μ . diam., atris, glabris, coriacellis, contextu parenchymatico atro-fuligineo, ostiolo conoideo parvulo, carbonaceo; ascis cylindraceo-obclavatis, sursum attenuatis, apice rotundatis, crasse tunicatis ac minute 1-foveolatis, basi attenuato-rotundatis ac pedicello brevissimo crassoque suffultis, 75-85 \simeq 4-5, octosporis; paraphysibus paucis crassiusculis guttulatis; sporidiis filiformibus, fasciculatis, ascorum longitudine, tenuissimis, $\frac{3}{4}$ μ . crass., hyalinis, indistincte guttulatis.

Hab. ad folia emortua dejecta Fagi obliquæ ubique non rara in silvis per Fuegiam totam. — Ut *Ophiognomonina* inscribit ipse clarus auctor.

41. **Ophiobolus hamasporus** E. et E. Journ. Myc. 1887, p. 117. — 3756

Peritheciis sparsis, globosis, membranaceo-carbonaceis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., nigris, sæpe macula nigrificata, stromatis imperfecti præsentiam indicante, insidentibus, apice convexo-depresso tantum prominentibus; ascis 70 \simeq 8-10, supra angustatis, sed obtusis; paraphysibus?; sporidiis octonis, filiformibus, multinucleatis, flavido-hyalinis, 30-35 \simeq 1,5, deorsum angustato-acuminatis, ex asco circ. ad tertium inferius fere sub angulo recto incurvatis v. etiam hamatis.

Hab. in foliis dejectis *Quercus tinctoriæ*?, Manhattan, Kansas Amer. bor. — Habitus *Didymosphæriæ Cupulæ*.

42. **Ophiobolus compar** Karst. in Hedw. 1884, n. 1, p. 2, Rev. atque 3757

Synop. Ascom. fenn. p. 27. — Peritheciis sparsis, maculæ purpurascenti insidentibus, subsuperficialibus, conico-sphæroideis, poro pertusis, atris, 2 mm. latis; ascis cylindraceis, 120 \simeq 5-6; sporidiis octonis, filiformibus, guttulatis, flavescenti-hyalinis, ascum subæquantibus, 1 μ . crass.

Hab. ad caules *Asparagi officinalis* emortuos in Mustiala Fenniæ.

43. **Ophiobolus versisporus** E. et M. in Journ. of Myc. 1885, p. 99. 3758

— Peritheciis gregariis v. sparsis, $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., epidermide nigrescente, circa ostiolum, breve obtusum, erumpens albescente tectis; ascis 70-80 \simeq 8-9; paraphysibus non visis; sporidiis filiformibus, curvatis, primum multinucleatis demum pallide luteis, enucleatis, continuis, 60-70 \simeq 2-2 $\frac{1}{2}$.

Hab. in petiolis emortuis *Sabalidis serrulatæ* in Amer. bor.

44. **Ophiobolus Medusæ** E. et E. in Journ. of Myc. I, p. 150. — Peri- 3759

theciis membranaceis, sparsis, depresso globosis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., epidermide non nigrescente, non elevata, sed ostiolo atro punctiformi perforata tectis; ascis longissimis, 400 \simeq 12-15, 8-sporis;

sporidiis filiformibus, curvatis, ascorum longitudinem æquantibus, in parte media 3-3½ μ . latis, utrinque gradatim conicis, luteolis v. fere hyalinis, endochromate multipartito.

Hab. in culmis Spartinae, Cape May Amer. bor. — Var. **minor** E. et E. Proc. Philadelph. 1890, p. 239. A typo differt ostiolo majore erumpente; ascis angustioribus, 110-120 \approx 7-8 sporidiisque minoribus, 90-110 \approx 2,5. In foliis Andropogonis muricati, St. Martinsville, Louisiana Amer. bor. (LANGLOIS).

45. **Ophiobolus graminis** Sacc. Syll. II, pag. 349, Prill. et Delacr. Bull. Soc. Myc. 1890, p. 110, t. XVI, f. 6-11. — Sporidia maturitate 3-septata. Nascitur quoque in Gallia ad Triticum, cui maladie du pied affert.

46. **Ophiobolus trichosporus** Ell. et Ev. Proc. Phil. 1890, p. 239. — 3760 Peritheciis erumpenti-superficialibus, ovato-conicis, circ. ¼ mm. diam., in ostiolum breviter rostellatum acutum abeuntibus; ascis cylindraceutis, 170-200 \approx 3; sporidiis filiformibus multinucleatis, ascos subæquantibus.

Hab. in culmis graminum, London Canada Amer. bor. (DEARNESS). — Ab *O. stictisporo* peritheciis rostellatis præcipue dignoscendus.

47. **Ophiobolus Körberi** (Stein) Berl. et Vogl. Add. Syll. p. 190, *Leptosphaeria Körberi* Winter Die Pilze II, p. 443, *Leptorhaphis Körberi* Stein in Flechten Schles. pag. 350. — 3761 Peritheciis primo immersis, mox subsuperficialibus, nigris, nitidis, minutis, sphæroidis, apice poro minuto, sed distincto pertusis, 0,1 mm. diam.; sporidiis longe cylindraceutis, plerumque rectis et uno apice incrassatis, altero sensim attenuato-acutis, 4-8-septatis, hyalinis, 24-30 \approx 1-2, octonis; paraphysibus distinctis.

Hab. in thallo Körberiiellæ Wimmerianæ in Germania.

48. **Ophiobolus Peltigerarum** (Arnold) Berl. et Vogl. Add. Syll. p. 189, 3762 *Leptosphaeria Peltigerarum* Arnold Lichenol. Ausfl. in Tirol XVIII, p. 25 et Winter Die Pilze II, p. 441. — Peritheciis minutis, sparsis, acervulos erumpentes formantibus, nigris; ascis longe cylindraceutis, 12-16-sporis; paraphysibus filiformibus, longe acicularibus, rectis v. leniter curvatis; sporidiis longe cylindraceutis, rectis v. leniter curvis, guttulis oleosis farctis, 90-100 \approx 3.

Hab. in thallo Peltigeræ aphotosæ in Tirolia. — «An diversus ab *Oph. Peltigeræ*?».

49. **Ophiobolus Steinli** (Körber) Berl. et Vogl. Add. Syll. p. 189, *Leptosphaeria Steinlii* Winter Die Pilze II, p. 443, *Leptorhaphis Stei-* 3763

nii Körb. in Bericht üb. botan. Lect. Schles. Ges. 1869, p. 67. — Peritheciis sparsis, fere omnino v. $\frac{2}{3}$ thallo immersis, globoso-depressis, ostiolo atro, vix pertuso, tantum prominentibus, molliusculis obscure brunneis, 0,4 mm. diam.; ascis fere obpiriformibus, utrinque attenuatis, sessilibus, 8-sporis, 57-61 \approx 9-10; paraphysibus distinctis, filiformibus gracillimis; sporidiis elongato-fusoideis, inæquilateralibus v. leniter curvulis, 2-3-cellularibus, hyalinis, 22-40 \approx 2-3.

Hab. in thallo *Lecanoræ frustulosæ* in Germania.

50. **Ophiobolus paluster** (Schr.) Berl. et Vogl. Add. Syll. p. 190, *Lep- 3764*
ptospora palustris Schroet. über ein. von R. Fritze Mad. und. Ten-
ges. Pilze p. 4. — Peritheciis matrice immersis, globosis, ostiolo
perforato instructis, 0,6 mm. latis, levibus, nigris, fragilibus; ascis
cylindraceutis, longe pedicellatis, 220-260 \approx 16-20, p. sp. 120-130
 μ . long., octosporis; sporidiis distichis, longe cylindraceutis, irregu-
lariter incurvatis, utrinque rotundatis, 60-70 \approx 8-10, continuis gra-
nulosisque, hyalinis.

Hab. in Algis gelatinosis exsiccatis in insula Madeira.

2. *Ophiochæta* Sacc. Perithecia setosa. Sporidia in articulos vix secedentia.

51. **Ophiobolus barbatus** Pat. Bull. Soc. Mycol. 1888, p. 114. t. XIX, 3765
f. 7. — Peritheciis subglobosis v. piriformibus, in greges parvos,
hemisphæricos, stromate hispido insertos congestis, pilis rigidis,
brunneis, simplicibus, septatis, fasciculatis præditis, contextu nigro;
ascis fusoideis, stipitatis, utrinque attenuatis, 120 \approx 15-20, apara-
physatis; sporidiis brunneolis, linearibus, elongatis, rectis v. sub-
curvulis, 7-8-septatis, 80 \approx 5.

Hab. in cortice putrido, Atures Venezuelæ. — Adsunt inter
perithecia pycnidia pilis longioribus et gracilioribus, stylosporibus
brunneis, e ramulis binis X ad instar efformatis, ramulis singulis,
6-7-septatis.

52. **Ophiobolus trichellus** Bomm. Rouss. Sacc. sp. nov. — Peritheciis 3766
ovoideis v. conoideis, 60-100 μ . diam., sparsis, nigris, vertice pi-
lis simplicibus, acuminatis, 24-33 \approx 4 erectis, fuliginis subinde fle-
xuosis coronatis; ascis clavatis v. clavato-oblongis, subsessilibus,
45-66 \approx 10-15, octosporis; sporidiis fasciculatis, filiformibus, 11-
15-septatis v. guttulatis, hyalinis, 60 \approx 3, vulgo flexuosis; paraphy-
sibus indistinctis, cohærentibus.

Hab. in pag. inferiore foliorum *Psammæ arenariæ*, Knocke
pr. Ostenda Belgii.

3. *Plejobolus* B. R. S. Sporidia in articulos facile secedentia *).

53. **Ophiobolus arenarius** Bomm. Rouss. Sacc. nov. sp. — Peritheciis 3767 sparsis, globulosis, 150–200 μ . diam., glabris, epidermide dealbata innatis, zona nigra v. brunnea cinctis, ostiolo brevi conico, erumpente; ascis cylindraceutis, 240–330 \approx 7–6, in stipitem brevem contractis, suboctosporis; sporidiis asci longitudine, mox in articulos ovato-ellipsoideos, numerosos (60–70), hyalinos, 6 \approx 3 secedentibus; paraphysibus copiosis, filiformibus, ramosis, guttulato-septatis.

Hab. in foliis emortuis *Ammophilæ arenariæ*, Knocke pr. Ostende Belgii.

54. **Ophiobolus leptosphærioides** Sacc. et Paol. Myc. Sibir. pag. 18, 3768 fig. 15. — Peritheciis subgregariis, globoso-depressis, subcutaneo-erumpentibus, atris, $\frac{1}{3}$ mm. lat., ostiolo papillato vix perspicuo; ascis tereti-clavulatis, apice rotundatis, brevissime noduloso-stipitatis, 90–110 \approx 13–18, filiformi-paraphysatis, 8-sporis; sporidiis fusoido-bacillaribus, 16-septatis, rarius 17–20-septatis, ad septa leviter constrictis, 93–108 \approx 5,5, luteo-olivaceis, articulis facile secedentibus, cuboideis, extimis conoideis.

Hab. in ramulis *Thesii pratensis* in desertis prope montem Somochwal Sibiricæ (MARTIANOFF). — A *Lept. megalospora*, cui subaffinis, differt sporidiorum loculis æqualibus, sporidiis ascum subæquantibus ostiolis non setosis. A typo *Ophioboli* leviter desciscit ostiolo brevissimo, sporidiorum articulis subinde secedentibus.

LINOSPORA Fuck. — Sacc. Syll. II, p. 354.

1. **Linospora insularis** Johans. Svamp. fran Island p. 171, t. XXIX, 3769 fig. 13. — Peritheciis sparsis vel gregariis parenchymate innatis, epidermidem inflantibus, depresso-globosis vel elongatis, 330–450 μ . diam., rostro laterali, 200–370 μ . longo, epidermidem perforantibus, pseudostromate vix distincto; ascis cylindraceutis, in stipitem acutum attenuatis, octosporis, 135–200 \approx 7–9; sporidiis parallele stipatis, filiformibus, 1-septatis, loculo superiore brevioris et vix vel lenissime crassioris, hyalini, 100–120 \approx 3.

*) Ad hoc subgenus quoque spectant *O. brachystomus* Sacc., *O. Tanacetii* (Fuck.) Sacc. et *O. maritimus* Sacc.

Hab. in foliis emortuis *Salicis lanatæ*, Eskifjördur Islandiæ orientalis.

2. **Linospora ferruginea** Ell. et Mart. Amer. Nat. 1884, pag. 60. — 3770

Maculis pallidis, luteo-brunneis, obscure marginatis, vix tumidulis $1\frac{1}{2}$ -2 mm. diam.; peritheciis nigris, subglobosis, 150 μ . diam., uno in quaque macula immersis, epidermide nigrescente, ostiolo vix prominulo perforata, tectis; ascis cylindraceutis, 75-80 \approx 7, sessilibus v. brevissime pedicellatis; paraphysibus copiosis, linearibus, obvallatis, octosporis; sporidiis filiformibus, luteolis, obscure nucleatis, utrinque acutis, 35-45 \approx $1\frac{1}{2}$.

Hab. in foliis *Andromedæ ferruginæ*, New Florida Americæ borealis.

3. **Linospora Viburni** (Buckn.) Berl. et Vogl. Add. Syll. p. 191, *Hy-* 3771

pospila Viburni Bucknall in Grevillea XII, p. 44. — Epiphylla, sparsa, nigricans; pseudo-peritheciis convexis, subrugosis, folio innatis, prominentibus, astomis, suborbicularibus, cellulosis; ascis cylindraceutis, octosporis; sporidiis stipatis, filiformibus, hyalinis, 160 μ . longis.

Hab. in foliis emortuis *Viburni Lantanæ*, Bristol Britanniæ (C. BUCKNALL).

4. **Linospora? guaranitica** Speg. Fung. Guar. Pug. I, n. 231. — 3772

Maculis vix nubiloso-manifestis, fusciscentibus indeterminatis; peritheciis hypophyllis, sparsis vel laxissime gregariis, subglobosis, 80-100 μ . diam., parenchymate immersis, ostiolo crassiusculo, mammillato, prominulo, epidermidem perforante exsertoque donatis, atris, glabris, coriaceis, contextu indistincto, opaco, fuligineo-olivaceo; ascis cylindraceuto-clavulatis, apice rotundatis vel truncatis, crassiuscule tunicatis, basi vix attenuato-pedicellatis, 65-70 \approx 9, paraphysatis, 8-sporis; sporidiis fasciculatis, aciculari-elongatis, 55-65 \approx 2-2,5, leniter curvulis, utrinque acutiusculis, medio attenuatis, dense guttulatis (an postremo pluriseptatis?), hyalinis.

Hab. ad folia viva vel languida *Myrtaceæ* speciei cujusdam in silvis subvirgineis prope Guarapî Brasilæ.

5. **Linospora procumbens** Fuck. — Syll. II, pag. 335, Wint. Hedw.

1887, p. 62. — Asci substipitati, octospori, 60-70 \approx 5-5,5; sporidia filiformia, supra medium parum inflata, utrinque attenuata, hyalina, 35-40 \approx 1,5.

6. **Linospora Palmetto** Ell. et Ev. Journ. Myc. 1887, p. 45. — Pe- 3773

ritheciis globosis, immersis, circ. $\frac{1}{3}$ mm. diam., ostiolo papillato erumpente, disculo stromatico depresso conico superficiali, perithe-

cium æquante inclusa, matrice circumcirca atrata; ascis lanceolatis, 75-80 \approx 8-10, copiose paraphysatis, 8-sporis; sporidiis linearifusoideis, acutis flavidis, nucleatis, 40-50 \approx 2-2,5.

Hab. in foliis vivis Sabaleos Palmetto in udis, Point à la Hache Louisiana Amer. bor. (LANGLOIS). — Perithecia maculis elongatis pallidioribus foliorum inserta.

7. **Linospora maculicola** Pat. Bull. Soc. Myc. 1888, p. 115. — Pe- 3774
 ritheciis minutis, punctiformibus, nigris, numerosis, subepidermicis, in macula decolorata, ovoidea, epiphylla sparsis; ascis elongatis, apice truncatis, medio incrassatis, deorsum attenuatis, 60-90 \approx 10-12, aparaphysatis; sporidiis linearibus, non septatis, hyalinis, rectis vel vix curvulis, medio subincrassatis, 47-50 \approx 3-4.

Hab. ad folia viventia, Puerto-Zamuro Venezuelæ.

CYLINDRINA Pat. in Soc. Bot. Franc. 1886, p. 155 (Etym. a *cylindros*). — Perithecia simplicia, subcornea, erecta, cylindrica, vertice truncata cupulataque, poro pertusa. Asci cylindranei, valde elongati. Sporidia filiformia, continua. Paraphyses numerosissimæ, simplices, tenues.

1. **Cylindrina Delavayi** Pat. in Soc. Bot. France, 1886, pag. 155. — 3775
 Peritheciis sparsis, 1-2 mm. altis, nigris, cylindraneis, levibus, apice truncato-cupulatis, ostiolo circulari, subinde late pertuso; ascis longissimis, 300-350 \approx 6-7; paraphysibus linearibus, gracilibus obvalatis; sporidiis filiformibus, continuis, ascos æquantibus.

Hab. in foliis emortuis Liparis liliifloræ, Yunnan Sinarum.

DILOPHIA Sacc. Syll. II, p. 357.

1. **Dilophia punctata** Winter in Hedwigia 1886, p. 101. — Perithe- 3776
 ciis sparsis vel gregariis, sæpe dense stipatis, omnino immersis, subglobosis, basi applanatis, ostiolo brevi, cylindraneo, parum prominulo, epidermide circa ostiolum nigrefacta semper tectis, atris, membranaceis, 300 μ . latis; ascis cylindraneo-lanceolatis, utrinque, deorsum autem magis, attenuatis, sessilibus, aparaphysatis, vertice obtuso incrassatoque, 8-sporis, 120-140 \approx 10-12; sporidiis inordinatis, conglobatis, elongato-fusoideis, parum curvatis, utrinque acutiusculis, hyalinis, transverse pluriseptatis, 78-88 \approx 5.

Hab. in petiolis putridis Musæ in insula St. Thomé Africæ orientalis.

OPHIOCERAS Sacc. — Syll. II, p. 358.1. **Ophioceras? Sambuci** Passer. Diagn. Fung. nuovi, IV, pag. 7. — 3777

Peritheciis solitariis v. geminis, ligno immutato immersis, ostiolo punctiformi vix emerso et visibili, membranaceo, contextu minutissime celluloso, tumido; ascis clavulatis, basi attenuatis, sessilibus; paraphysibus tenuissimis, longe superantibus, stipatis, 8-sporis, $50-75 \approx 7-9$; sporidiis filiformibus, continuis, hyalinis, pluriguttulatis, guttulis interdum quadratis.

Hab. in surculis emortuis denudatis *Sambuci nigræ*, S. Andrea del Taro prov. Parmensis. — Ob perithecia xylogena membranacea et ostiolo brevi inter *Ophiobolium* et *Ophioceras* ambigit.

2. **Ophioceras diaporthoides** Sacc. et Paol. Myc. Malac. n. 106, t. II, 3778

f. 6. — Peritheciis gregariis, ligno immersis, globulosis, tenuiter coriaceis, linea stromatica tortuosa lignum penetrante exceptis; ostiolo cylindraceo vix dimidium perithecium æquante, peridermii superficiem parum superante, obtusiusculo; ascis cylindricis, brevissime stipitatis, apice rotundatis, octosporis, $88 \approx 10$; paraphysibus non visis; sporidiis filiformibus, rectis vel lenissime curvulis, utrinque obtusiusculis, $80 \approx 2-3$, 25-35-guttulatis, hyalinis.

Hab. in sarmentis putrescentibus plantæ lignosæ spinosæ, Malacca (SCORTECHINI). — Habitus omnino *Diaporthes*, hinc a typo *Ophioceras* nonnihil recedens.

PSEUDOMELIOLIA Speg. F. Puigg. n. 282 [1890] (Etym. *pseudēs* falsus et *Meliola*). — Perithecia in thallo pelliculoso tenuissimo atro mox evanescente dense constipata, superficialia, globosa, ostiolata, carbonacea. Asci octospori, paraphysati. Sporidia cylindraceo-subfiliformia, continua, guttulata, chlorina. — Genus pulchellum habitu ac vegetatione *Parodiellæ*, sed sporidiorum fabrica prædistinctum. An melius inter *Perisporiaceas* locandum?

1. **Pseudomeliolia brasiliensis** Speg. F. Puigg. n. 282. — Peritheciis 3779

epiphyllis, hinc inde glomerulatis, atris, globoso-ovatis, 200-250 μ . diam., minute papillulato-ostiolatis; ascis elliptico-ovatis, $40-45 \approx 10-12$, octosporis, paraphysatis; sporidiis lineari-fusoideis, curvulis, e chlorino olivaceis, $30 \approx 3$.

Hab. ad folia viva *Araucariæ brasiliensis* prope Apiaty Brasiliæ. — Maculæ nullæ; subiculum atrum membranaceo-crustaceum vix evolutum.

CRYPTOSPORA Tul. — Sacc. Syll. II, p. 301.1. **Cryptospora Caryæ** Peck 38 Rep. St. Mus. p. 106, t. 2, f. 28-31. 3780

— Stromatibus sparsis, epidermide tectis, erumpentibus, linea atra circumscriptis v. sub epidermide crusta atra velatis; peritheciis 4-12 in quoque stromate globosis v. pressione angulosis, ostiolis stipatis, prominulis, subglobosis, æqualibus, nigris; ascis subclavatis, 100-125 \approx 12-15; sporidiis stipatis v. distichis, subcylindraceutis in parte inferiore vel utrinque leniter acuminatis, granulosis, denique spurie 3-5-septatis, 40-60 \approx 6-7, hyalinis.

Hab. in ramis Caryæ albæ, Knowersville Amer. bor.

2. **Cryptospora corylina** (Tul.) Fuck. — Sacc. Syll. II, p. 363. Huc ducenda est *Sphæria versatilis* Fries S. M. II, 364 et Sacc. Syll. II, p. 372 (Cfr. Cooke in Grevillea XIII, p. 370). — Sporidia sunt cylindraceuta, flexuosa, nucleata, hyalina, 50 μ . longa.3. **Cryptospora umbilicata** (Pers.) Berl. et Vogl. Add. Syll. p. 192, *Sphæria umbilicata* Pers. Syn. p. 45, Sacc. Syll. II, p. 487 et Cooke in Grev. XIII, p. 39. — Sporidia ovoidea, hyalina, 6,2 \approx 5.4. **Cryptospora tomentella** (Peck) Berl. et Vogl. Add. Syll. p. 192, 3781

Valsa tomentella Peck in Thirty-fifth. Rep. St. Mus. Bot. 1884, p. 144. — Peritheciis quaterno-octonis, subcircinatis, in parte interiore corticis nidulantibus, nigris, basi tomento albo vestitis, disco lanceolato, albido vel brunneo, rima angusta, utrinque acuta erumpentibus, ostiolis atris, levibus punctulato; ascis oblongis, latis, subcylindraceutis vel fusiformibus, sessilibus, 50-80 μ . longis; sporidiis cylindraceutis, stipatis, curvulis, utrinque obtusis, sæpe multinucleatis, 50-67 \approx 4-5, hyalinis.

Hab. in cortice Betulæ populifoliæ, New Albany Americæ borealis.

5. **Cryptospora vasculosa** (Fr.) Cooke in Grevillea XIII, p. 39, *Sphæria vasculosa* Fries S. M. II, 408 et Sacc. Syll. II, pag. 486. — Sporidia cuneata, nucleata, 8-12 μ . long. « Vix *Cryptospora* ».6. **Cryptospora Sowerbyi** (Berk.) Sacc. *Diatrype* Berk. in Herb. n. 8786, 3782

Sow. Fungi t. 378, fig. 4, sec. Cooke Syn. Pyren. — Erumpens, verruciformis, disco pallido; peritheciis minutis, paucis, ostiolis brevibus; ascis clavatis, subsessilibus, 8-sporis; sporidiis anguste fusoides, hyalinis, 20 \approx 4-5.

Hab. in ramis in Scotia. — Supra stromata *Trichoderma lignosum* parasitatur.

7. **Cryptospora Richonii** Sacc. *Cryptospora Quercus* Rich. Cat. Champ. 3783

Marn. n. 1430 (1889), nec Allesch. — Peritheciis 4-6 in pustulas valsoideas circinantibus epidermide tectis, ostioliis brevibus, per discum erumpentibus; sporidiis cylindræis, obtusis, 3-5-septatis, granulosis, hyalinis.

Hab. in ramis *Quercus*, St. Amand Galliæ.

8. **Cryptospora Quercus** Allesch. Suedb. Pilze p. 208, t. II, f. 7 (1887). 3784

— Affinis *C. Betulæ*; ascis elongato-fusoideis, sessilibus, octosporis, 60-90 \approx 16-18; sporidiis fasciculatis, curvulis, cylindricis, utrinque rotundatis, 10-guttulatis, hyalinis, 50-70 \approx 4; conidiis fusoideis, obtusulis, pluriguttatis, hyalinis, 16-18 \approx 3-4, cumulatis rubentibus.

Hab. in ramis siccis *Quercus pedunculatæ* pr. München Baviariæ.

9. **Cryptospora pulviniceps** (Peck) Sacc. *Valsa* Peck 32 Rep. p. 50. 3785

— Peritheciis 8-12 pustulatim gregariis, ligno immersis, cortice tectis; ostioliis erumpentibus, confertis, prominentibus, nigris, massam orbicularem pulviniformem formantibus; ascis clavatis; sporidiis confertis, subellipsoideis vel late fusoideis, pluriguttatis, leniter coloratis, 10-15 μ . long.

Hab. in caulibus emortuis *Sambuci canadensis*, Richmondville Amer. bor.

10. **Cryptospora Bambusæ** Speg. Fung. Guar. Pug. I, n. 232. — Stro- 3786

matibus sub vel in cortice nidulantibus, lineari-elongatis, laxe gregariis, parallele longitudinalibus, primo epidermide tectis, dein hysteriatim erumpentibus, non vel vix exsertulis, extus griseis vel sordide fuscis, intus sordide albo-subceraceis, pauciperithecigeris; peritheciis stromate immersis, ex ovoideo globosis 150-300 μ . d., ostiolo minuto, conoideo, subcarbonaceo, stroma perforante ejusdemque superficiem vix attingente donatis, tenui-membranaceis, olivaceis, contextu denso, minuto, inconspicuo, fusco; ascis clavatis, utrinque attenuatis, apice truncatis crassissimeque tunicatis perforatisque, basi breviter elongato-stipitatis, 95-100 \approx 12-14; paraphysibus quandoque nullis, quandoque densis, hyalinis, submucosis, simplicibus vel ramulosis, crassiusculis obvallatis, 8-sporis; sporidiis elongato-fusiformibus vel subacicularibus, utrinque acutatis ac leniter curvulis, 40-50 \approx 6-7, fasciculatis, 3-septatis, ad septa non constrictis, loculis crasse 1- vel 2-guttulatis, hyalinis.

Hab. ad culmos dejectos putrescentes *Bambusæ* cujusdam in silva subvirginea Caa-guazù Brasiliæ.

Fam. 4. **Hypocreaceæ** DE NOT.Sect. 1. **Hyalosporæ.**

NECTRIELLA Sacc. Syll. II, p. 448.

1. **Nectriella vulpina** (Cooke) Berl. et Vogl. Add. Syll. p. 194, *Peziza* 3787
vulpina Cooke, *Dialonectria vulpina* Cooke in Grev. XII, p. 83.
— Sparsa, aurantio-fusca; peritheciis globosis demum depressis et cupuliformibus, levibus, glabris, vix papillatis 0,3-5 mm.; ascis clavatis; sporidiis hyalinis, continuis, $8 \approx 2,5$.

Hab. in frustulis ligneis, New Jersey Amer. bor. (J. B. ELLIS).

2. **Nectriella Helenæ** Sacc. et Roum. in Rev. Myc. 1883, tab. 41, 3788
fig. 20. — Peritheciis inter fibras caulis, gregariis, superficialibus, globosis vel conoideis dein subcollabascentibus, pallide roseis, hyphulis albis cinctis, $\frac{1}{4}$ mm. diam.; ascis cylindricis, paraphysatis, 90-100 \approx 6-7, octosporis, breve stipitatis; sporidiis oblique 1-stichis, ellipsoideo-oblongis, 10-12 \approx 5-6, utrinque obtusiusculis, hyalinis.

Hab. in caule putri Brassicæ in Gallia. — *Nectriellæ furellæ* similis videtur, sed sporidia in nostra sunt duplo majora.

3. **Nectriella consors** (E. et E.) Sacc. *Dialonectria* E. et E. Journ. 3789
Myc. 1888, p. 122. — Peritheciis gregariis, ovoideis, $\frac{1}{8}$ mm. diam., dilute miniatis, pilis brevibus, patentibus, pallidis vestitis; ostiolo nudo, obtuse conico, levi; ascis sublanceolatis, 60-70 \approx 6; sporidiis oblique monostichis vel distichis, oblongo-fusoideis, hyalinis, 2-3-guttulatis, 7-9 \approx 2,5.

Hab. in caulibus emortuis Polygoni acris, St. Martinsville Louisiana Amer. bor. (LANGLOIS), sociâ *Volutellâ* quadam *V. ciliatæ* affinis sed conidiis minutis, oblongo-cylindræis, 3-4 \approx 1.

4. **Nectriella Wainioi** Karst. in Hedw, 1889, p. 192. — Peritheciis 3790
superficialibus, 10-60 in cæspitulos 0,5-1 mm. diam. collectis, rotundatis vel obovoideis aut mutua pressione difformibus, levibus vix ostiolatis, flavis, subfurfuræis, mox nudis, interdum demum ore latissimo apertis, 150-200 μ . latis; sporidiis fusoideo-oblongatis vel minute guttulatis, 7-9 \approx 2-3,5.

Hab. ad corticem arborum frondosarum in Minas Geraes Sitio. — A *Nectriella microspora*, cui proxime accedit, præcipue colore perithecorum pallidiore differt.

5. **Nectriella Chamæropis** Oud. Contr. Fl. Myc. Pays-Bas XI, p. 24. 3791

— Peritheciis ad superficiem substrati pulvinuli orientibus, primitus sub hyphis albis, conidiferis, *Penicillii* cujusdam absconditis, postea vero liberatis planeque conspicuis, pallide aurantiacis, materia glutinosa inter se et cum substrato cohærentibus, $\frac{1}{5}$ - $\frac{1}{4}$ mm. diam., subglobosis, glabris, subtilissime papillatis, tandem ostiolo simplici apertis; ascis pedicellatis, numerosissimis, anguste cylindraceis, sursum rotundatis, $50 \approx 5$; paraphysibus numerosissimis stipatis; sporidiis monostichis, hyalinis, continuis, oblongis, $9,6 \approx 3,5$ utrinque rotundatis, protoplasmate exilissime granulato repletis.

Hab. in ramulis floralibus *Chamæropis* in Horto Botanico Amsterdam Hollandiæ.

6. **Nectriella gigaspora** Cooke et Masee in Grev. XVII, p. 42. — 3792

Gregaria v. sparsa; peritheciis minutis, aurantiis, piriformibus v. ellipticis, glabris, ostiolo conico; ascis lanceolatis, 150μ . long., octosporis; sporidiis elliptico-lanceolatis, continuis, granulosis, hyalinis, $30-33 \approx 10$.

Hab. in *Botryosphæria inflata*, Habgalla ins. Ceylon.

7. **Nectriella erythrostigma** (Mont.) Sacc. *Peziza* Mont. Ann. Sc. nat. 1842, p. 246, *Orbilina* Sacc. Syll. VIII, p. 632, *Nectria* Tul. Carp. III, p. 196. — Perithecia omnino nectriacea; asci obovato-clavati, $95 \approx 13-16$, octospori; sporidia anguste oblonga, obtusa, recta vel subinæquilatera $30-40 \approx 8-9$, hyalina, guttata apice setâ filiformi rectâ $6-7 \mu$. longâ aucta.**ELEUTHEROMYCES** Fuck. — Sacc. Syll. II, p. 455.1. **Eleutheromyces longisporus** Phill. et Plowr. in Grev. XIII, p. 78. 3793

— Peritheciis gregariis, superficialibus, elongatis, pallide luteis, $450-500 \mu$. latis, 200μ . longis, basi inflatis; ostiolis acute terminatis; ascis clavato-elongatis vel subfusiformibus, $130-150 \approx 20-25$, plerumque 4-sporis; sporidiis hyalinis, elongato-fusoideis, acutis, uniseptatis, utrinque ciliatis, $50-60 \approx 5-8$.

Hab. in reliquiis *Myxogastri*, Holt House Woods, King's Lynn Britannicæ. — «An novum genus?».

BYSSONECTRIA Karst. — Sacc. Syll. II, p. 456.1. **Byssonectria rosella** Cooke et Hark. in Grevillea XII, p. 101. — 3794

Tenuis, effusa, rosella; hyphis repentibus, intertextis; peritheciis minutis, inspersis, obscurioribus (incompletis); conidiis fusarioideis

lunatis, utrinque acutis, quinqueseptatis, plerumque nodulosis hyalinis immixtis, 40 \approx 5-6.

Hab. in herbis emortuis in California (HARKNESS).

CLEISTOSOMA Hark. in Jour. of Myc. 1885, I, p. 30 (Etym. *cleistos* clausus et *soma* corpus). — Perithecia orbicularia, membranacea. Asci ex filamentis ramosis orientes, globosi, evanescentes. Sporidia hemisphærica, echinulata. — Verisimiliter genus non diversum ab *Inzengæa*. Cfr. supra p. 610.

1. **Cleistosoma purpureum** Hark. in Journ. of Myc. 1885, pag. 30. — 3795
Peritheciis purpureo-nigris, tenuissimis in sporodochiis *Thecosporæ bifidæ* orientibus et ea purpureo colorantibus, mox dehiscen-
tibus; ascis globulosis, hyalinis, 8-sporis, 9-12 μ . diam.; sporidiis
purpureis, hemisphæricis, longe echinulatis, 3-4 μ . latis.

Hab. in foliis putridis Eucalypti Globuli, S. Francisco Californiae. — Status ascophorus verisimiliter *Thecosporæ bifidæ*.
Cfr. supra pag. 611.

SELINIA Karst. — Syll. II, p. 457.

1. **Selinia intermedia** Speg. F. Fueg. n. 268. — Peritheciis sæpius 3796
3-5-aggregatis, stromate ceraceo-carnosulo, pallide rufescente, in
matrice tuberculoso-prominulo, immersis, globulosis, 0,7-1 mm.
diam., siccis rufescentibus, udis flavescenti-melleis; ostiolo crasse
obtuseque papillulato, fuligineo; contextu carnosulo, indistincto,
subopaco, rufescenti-ferrugineo; ascis saccato-clavatis, 150-160 \approx
50, subtorulosis, antice rotundatis, postice brevissime crasseque at-
tenuato-pedicellatis, tenuiter tunicatis, 8-sporis, aparaphysatis; spo-
ridiis di-tri-stichis, ellipticis, utrinque acutiuscule rotundatis, 45-
50 \approx 20-25, crasse tunicatis, levibus, hyalinis.

Hab. in fimo vaccino vetusto putrescente in silvis pr. Ushu-
vaia Fuegiæ Amer. austr.

2. **Selinia antarctica** Speg. F. Patag. n. 151. — Peritheciis solitariis 3797
vel hinc inde 3-5 stromate carnosulo, ceraceo-rubescente, plus mi-
nusve evoluto aggregatis, matrice semiimmersis, majusculis, glo-
bosis 500-800 μ . diam., siccis roseis, udis aurantiacis ostiolo cras-
siusculo, papillulato, atro donatis, crassiuscule carnosulis; contextu
indistincto, aurantio-melleo; ascis obclavatis, antice attenuatis ac
crassissime tunicatis (sterilibus), apiceque subtruncato-rotundatis,
postice abrupte in pedicellum brevissimum, crassum, nodulosum

contractis, 100-135 \approx 25, octosporis, aparaphysatis; sporidiis recte vel oblique distichis, elliptico-limoniformibus, 25-30 \approx 12-13, utrinque acutiusculis ac sæpe subapiculatis, levibus, hyalinis.

Hab. in fimo Struthionum nec non equino, ovino, vacino in Patagonia et in stercore vetusto Aucheniæ Guanaci, Slogget-bay Fuegiæ.

PECKIELLA Sacc. Syll. II, p. 472, ut subg. [Etym. a præclaro mycologo americano C. H. PECK]. — Stromata et perithecia *Hypomyces*; sporidia continua, ovoidea vel oblonga, subhyalina.

1. **Peckiella xylophila** (Peck) Sacc. *Hypomyces xylophilus* Peck in Torr. Bot. Club. 1884, p. 28. — Subiculo effuso, albido; peritheciis numerosis, stipatis, parvis, subflavidis, ostiolo obtuso; ascis cylindraceis, 85-110 \approx 6-7; sporidiis simplicibus, monostichis, subfusiformibus, 15-17 \approx 5-6. 3798

Hab. in ligno putri, Ohio Amer. bor.

2. **Peckiella apiospora** (Cooke) Sacc. *Hypomyces apiosporus* Cooke in Grev. XII, p. 80. — Effusa, pallida, tenuis; peritheciis semiimmersis, leniter papillatis (in sicco melleis), ostiolis obscurioribus; ascis cylindraceis, octosporis; sporidiis lanceolatis, supra apiculatis, infra rotundatis, totis asperulis, continuis (apiculo excepto), flavidis, 18 \approx 6,5. 3799

Hab. in Clavaria pistillari (?) New York Amer. bor.

3. **Peckiella atra** (Fr.) Sacc. *Hypomyces ater* Fr. Syst. myc. III, Cooke Grev. XII, pag. 80. — Irregulariter effusa, sæpe totum fungum occupans, nigra; peritheciis semiimmersis, ostiolo conico, concolore præditis; ascis cylindricis; sporidiis lanceolatis, utrinque acutis atque sæpe apiculatis, continuis, hyalinis, 30-35 \approx 5-6. 3800

Hab. in Agarico non determinato, Carlisle Britannicæ (CARLYLE).

4. **Peckiella Geoglossi** (E. et E.) Sacc. *Hypomyces Geoglossi* E. et E. Journ. Myc. 1886, p. 73 et 1887, p. 114. — Peritheciis immersis, subglobosis, 75-80 μ . diam., e mutua pressione subangulosis; ostiolo papilliformi, nigro; ascis clavato-cylindraceis, subsessilibus, flavidis, 75-80 \approx 6-7; sporidiis octonis, conferte subdistichis, clavato-oblongis, continuis, hyalinis, 6-8 \approx 2,5-3. 3801

Hab. in clava Geoglossi hirsuti, Newfield, New Jersey Amer. bor. — Subiculum obsoletum; peritheciorum color in specimenibus siccis niger. — Ad hoc genus sunt quoque ducendæ: *Peckiella viridis*, *P. Tulasneana*, *P. chrysostoma*, *P. Van-Brun-*

tiana, *P. violacea*, *P. polyporina*, *P. hyalina*, *P. transformans*, *P. Banningiæ*. Cfr. Syll. II, p. 472-474.

POLYSTIGMA Pers. — Syll. II, p. 458.

1. **Polystigma australiense** Sacc. Bull. Soc. myc. V (1890), pag. 119 3802
t. XIV, f. 2. — Stromatibus epiphyllis v. rarius ramulicolis, immersis, tumidulis, inæqualibus, folium integrum v. dimidium occupantibus, obsolete roseis, carnosulis; peritheciis sat crebris, stromate immersis, dein protuberantibus, vix papillatis, pertusis, initio ochraceo-rufis, dein nigricantibus, $\frac{1}{4}$ - $\frac{1}{5}$ mm. diam.; ascis teretibus, breviter stipitatis, apice obtusis, 75-90 \approx 12-25, 8-sporis; paraphysibus bacillaribus obvallatis; sporidiis submonostichis, oblongo-ellipsoideis, 15-18 \approx 5-6, hyalinis.

Hab. in foliis, rarius caulibus subvivi Leguminosæ cujusdam (foliis astragaloideis hirtellis). — Cellulæ stromatis inæquales, amyloferæ; perithecia cellulis elongatis, tenuibus formata.

PENICILLIOPSIS Solms Ann. Jard. bot. Buitenzorg VI, p. 53 cum tab.

— Stroma clavariæforme simplex vel varie ramosum, læte coloratum, initio hyphis conidiisque penicillioideis conspersum. Stroma ascogenum, pluriloculare. Asci in hyphis acro-pleurogeni, fugaces; sporidia in quoque asco numero varia, exigua, ovata, vittis vel spinulis variis aspera.

1. **Penicilliopsis clavariæformis** Solms l. c. — Stroma læte sulphureum, 20-30 mm. long., ramulis acutis; hyphæ stromatis, 6-8 μ . cr. 3803

Hab. in fructibus dejectis *Diospyri macrophyllæ* in horto botanico Buitenzorg Javæ.

LISIELLA Cooke in Grev. XVI, p. 5 (ut subg.) [Etym. a *Lisea* cui affinis]. — Perithecia et asci *Gibberellæ* v. *Liseæ*; sporidia ellipsoidea, continua, hyalina.

1. **Lisiella Passifloræ** Cooke et Mass. XVI, pag. 5. — Peritheciis 3804
erumpenti-superficialibus, in cæspitulos parvos aggregatis, globulosis, subpapillatis; contextu læte cyaneo, celluloso; ascis subfusoides, 8-sporis; sporidiis ellipticis, continuis, hyalinis, 12 \approx 5.

Hab. in caulibus *Passifloræ*, Brisbane Australiæ (BAILEY).

CHILONECTRIA Sacc. Syll. II, p. 454.

1. **Chilonectria myriospora** (Cr.) Sacc. l. c., Baccarini Fung. Avell. p. 369. — Perithecia $\frac{1}{5}$ mm. diam., flavo-pallida, sphaerica, reti-

culato-contexta, astoma; asci pauci 3-4 in quovis perithecio, crasse ovoidei, polyspori, $59 \approx 30$, filiformi-paraphysati; sporidia 100-150, perexigua, ovoidea, hyalina, $5 \approx 3$. — In fimo equino in Gallia et asinino pr. Pavia et Avellino Italiæ.

2. **Chilonectria crinigera** Ell. et Ev. Proc. Phil. 1890, pag. 246. — 3803

Peritheciis in quoque stromate subcirculari in cæspitulos compactos, 1-2 mm. diam., 3-12-gregariis, subglobosis, circ. 0,5 mm, diam., primitus indumento brunneolo, farinaceo obtectis, dein subnigris, supra rotundatis et obtusis, ostiolo papilliformi, sicco subcollapse; ascis clavato-cylindræis, supra obtuse rotundatis, basi stipitato-contractis, $65-75 \approx 12-15$, paraphysibus copiosis superatis; sporidiis octonis, distichis, globosis, hyalino-flavidis, 5-7 μ . diam., in asco tenuissime radiato-lineolatis, liberis filamentis circ. 12, hyalinis, 8-10 μ . long., stellatim dispositis cinctis.

Hab. in cortice Fraxini viridis emortuæ, Lincoln, Nebraska Amer. bor. (H. J. WEBBER). — Asci initio sporidiis numerosissimis, allantoideis, $3 \approx 0,5$, dein 8-spori.

3. **Chilonectria sphærospora** (Ell. et Ev.) Sacc. *Nectria* Ell. et Ev. 3806

in Bess. et Webb. Rep. Nebr. 1889, p. 53. — Ascis primo sporidiis allantoideis, minutis repletis, dein octosporis; sporidiis distichis, 5-7 μ . diam., dum liberis filamentis radiantibus, 8-10 μ . long., cinctis.

Hab. in cortice Fraxini viridis? et Gleditschiæ Triacanthi, Lincoln, Nebraska Amer. bor.

THELOCARPON Nyl. Class. Lich. I, p. 15 (1854), Rehm Hedw. 1891, p. 3 (Etym. *thele* papilla et *carpos* fructus), *Ahlesia* Fuck. Symb. p. 281 (1869), *Thelomphale* Körb. Par. p. 321 (1865). — Perithecia globosa vel verruciformia, ceracea immersa, flavido-albida, ostiolo punctiformi circumcirca nigricante; asci polyspori, paraphysati; sporidia ellipsoidea, typice continua, hyalina. — Teste Rehm, thallus genuinus et gonidia propria desunt, quæ e contra ab aliis auctoribus generi adscribuntur. — Cfr. diagnoses fusiores apud Rehm l. c.

I. Species non lichenicolæ.

1. **Thelocarpon Laureri** (Flot.) Nyl. Flora 1865, p. 261, *Sphæroopsis* 3807

Flot. Bol. Icit. 1847, p. 65. — Peritheciis crustato-connexis, subumbilicatis, viridiflavis, 120-200 μ . diam.; ascis 80-90 \approx 25; sporidiis globoso-oblongis, 3-4 μ . cr., hyalinis, continuis.

Hab. in lignis vetustis, rarius saxis in Germania.

2. **Thelocarpon superellum** Nyl. Flora 1865, p. 261. — Peritheciis 3808
sparsis subglobosis conicisve, 250 μ . diam., citrinis; ascis 300 \approx 21;
sporidiis oblongis, 9-12 \approx 4-4,5, hyalinis, continuis v. 1-septatis.
Hab. in ligno vetusto et turfa in Suecia, Fennia, Germania.
3. **Thelocarpon prasinellum** Nyl. Flor. 1881, p. 451. — Peritheciis 3809
subcæspitosis, globosis, convexis, prasinis, 100-200 μ . diam.; ascis
120 \approx 36; sporidiis globulosis, 2,5-3 μ . diam., hyalinis.
Hab. in lignis pineis et quercinis in Germania.
4. **Thelocarpon intermediellum** Nyl. Flor. 1865, p. 221. — Perithe- 3810
ciis sparsis vel subconfertis, globosis, flavo-viridulis, 200 μ . diam.;
ascis ampulliformibus; sporidiis oblongis, obtusulis, 3,5-5 \approx 2, hya-
linis, continuis.
Hab. in ligno putri alneo et in corio in Fennia et Britannia.
5. **Thelocarpon depressulum** Wainio Adjum. Lich. Lapp. p. 198. — 3811
Peritheciis globosis vel sublenticularibus, 150-200 μ . diam., flavis;
ascis 28-40 \approx 14; sporidiis globoso-ellipsoideis 2-4 μ . diam. v. 3-
4 \approx 2, continuis, hyalinis.
Hab. in ligno putri in Ostrobotnia Lapponiæ.
6. **Thelocarpon majusculum** Nyl. Flor. 1885, p. 300. — Peritheciis 3812
subglobosis, flavo-viridulis, 250 μ . diam.; ascis ampulliformibus;
sporidiis ellipsoideis, 2-3 \approx 1, hyalinis.
Hab. in lignis putridis, Illinois Amer. bor.
7. **Thelocarpon impressellum** Nyl. Prodr. Scand. p. 168. — Perithe- 3813
ciis sparsis, globosis subdepressis, 150-200 μ . diam., flavo-viridi-
bus; ascis 180 \approx 36; sporidiis oblongis, 6-8 \approx 3-4,5, hyalinis.
Hab. in lignis variis et rupibus in Tirolia, Lapponia, Fennia.
8. **Thelocarpon epilithellum** Nyl. Flor. 1865, p. 605. — Peritheciis 3814
subsparsis, globosis, 250-300 μ . diam., subdepressis, flavo-viridulis,
rugulosis; ascis 90-100 \approx 21-24; sporidiis ellipsoideo-oblongis, 4-
5 \approx 3, hyalinis, continuis.
Hab. in rupibus, præcipue graniticis in Fennia, Germania,
Helvetia.
9. **Thelocarpon interceptum** Nyl. Flor. 1880, p. 391. — Peritheciis 3815
sparsis subglobosis, flavo-viridibus, 250 μ . diam.; ascis 90-100 \approx
30; sporidiis subglobosis, hyalinis, continuis, 2,5-3 μ . diam.
Hab. in rupibus (Buntsandstein Brocken) Germaniæ.
10. **Thelocarpon intermixtulum** Nyl. Flora 1885, p. 42. — Peritheciis 3816
sparsis, globosis, citrinis, 100 μ . diam.; ascis 120 \approx 30; sporidiis
oblongis, continuis, hyalinis, 3 \approx 1-1,5.
Hab. in rupibus (Gneiss) in Hungaria.

11. **Thelocarpon conoidellum** Nyl. Flora 1870, p. 37. — Peritheciis 3817
subconicis, 100 μ . basi latis, flavis vel flavo-viridulis, sæpe leni-
ter collabentibus; ascis polysporis; sporidiis ampullaceis v. utrin-
que incrassatulis, 4-6 \times 1,5-2.
Hab. in insula Hoglaw Fenniaë.
12. **Thelocarpon excavatum** Nyl. Flor. 1885, p. 44. — Peritheciis 3818
sparsis vel subconfertis, globosis vel lenticularibus, citrinis, 100-
150 μ . diam.; ascis tereti-clavatis, 75 \times 12; sporidiis oblongis, con-
tinuis, hyalinis, 5-6 \times 2-3.
Hab. in rupibus (Jura-Sandstein) in Franconia. — Var. **colla-
psulum** Nyl. Fl. 1885, p. 44 (ut sp.); sporidiis globosis, 2 μ . diam.
In rupibus Tiroliaë cisalpinæ.
13. **Thelocarpon Herteri** Lahm in Zwackh Lich. n. 1062. — Peri- 3819
theciis sparsis, globosis, dein depressis, pallide flavidis, fere dia-
phanis, 150-200 μ . diam.; ascis clavatis, 150 \times 21; sporidiis oblon-
gis, obtusis, 6-8 \times 2, continuis, hyalinis.
Hab. in terra sabulosa ad Waldsee in Württemberg.

II. Thallicolæ.

14. **Thelocarpon epibolum** Nyl. Fl. 1866, p. 420. — Peritheciis spar- 3820
sis, globosis, flavo-viridulis, 110-120 μ . diam.; ascis 120 \times 21; spo-
ridiis oblongis rectis 4-7 \times 2-2,5, continuis, hyalinis.
Hab. in thallo Solorinæ croceæ, Peltideæ aphthosæ
et in Fomite fomentario in Lapponia, Germania, Herzegovina,
— Var. **epiboloides** Nyl. Fl. 1869, p. 84: peritheciis majoribus,
150 μ . diam., sporidiis 3-4 \times 1-1,5. In thallo Bæomycetis rosei
in insulis Feroe.
15. **Thelocarpon epithallinum** Leight. Ann. Mag. N. H. 1866 Jul. — 3821
Peritheciis globosis, flavo-viridulis, 100 μ . diam.; ascis polysporis;
sporidiis oblongis v. tereti-oblongis, 5-7 \times 1-2,5.
Hab. in thallo Bæomycetis rufi in Britannia.
16. **Thelocarpon Ahlesii** Rehm l. c., *Ahlesia lichenicola* Fuck., Sacc. 3822
Syll. VIII, p. 633. — Peritheciis plerumque 12-15 dense confertis,
lenticularibus, glabris, dilute citrinis, poro exiguo concolore, 50-
100 μ . diam., tenui-membranaceis; ascis clavatis, apice rotundatis,
crasse tunicatis, 70-80 \times 12, circ. 60-sporis; sporidiis oblongis, con-
tinuis, hyalinis, 3 \times 1,5.
Hab. in thallo Bæomycetis rufi pr. Heidelberg Germaniæ.

Sect. 2. Phæosporæ

SPHÆRODERMA Fuck. — Sacc. Syll. II, p. 459.

1. **Sphæroderma nectrioides** March. Champ. Copr. pag. 25, tab. I, 3823 f. 9-11. — Peritheciis globoso-ovoideis, contextu nectriaceo, molli, subdiaphanis, aurantiis, sparsis v. subaggregatis, ostiolo brevi, obtuso, 200 μ . diam. metientibus; ascis numerosis, breviter stipitatis, clavatis, apice late rotundatis, octosporis, 75-80 \approx 25-30, aparamphysatis; sporidiis primitus hyalinis, intus granulosis, denique atro-olivaceis, limoniformibus, utrinque truncatulis, 18-24 \approx 9-12.

Hab. in stromate *Xylariæ Tulasnei*, Boeykr prope Hasselt in Belgio. — A *Sphær. epispærio* ostioli fabrica, ascorum magnitudine et ascis persistentibus differt, a *Sph. aculeato* vero peritheciis glabris, sporidiis majoribus distinguendum.

2. **Sphæroderma Hulseboschii** Oud. Contr. Flor. Myc. Pays-Bas XI, 3824 pag. 23. — Peritheciis superficialibus, $\frac{7}{10}$ mm. latis, subglobosis, ostiolo brevi, obtuse conico, dilutissime ochraceis, hyalinis, e cellulis parenchymatosis contextis, tenuibus subtilibus, ascis fasciculatis, piriformibus, antice late rotundatis, 50 \approx 25; sporidiis 8, tristichis, limoniformibus (i. e. ellipticis et utrinque apiculatis), primitus hyalinis (achromis), denique subolivaceis, apiculis diu pallidioribus, 19-21 \approx 11-12.

Hab. in fimo Cuniculorum in Hollandia. — Differt a *S. theleboloide* subiculo nullo, ascis 8-sporis; a *S. aculeato* peritheciis sursum in ostiolum conicum contractis, amplioribus, porro ascis sporidiisque majoribus; a *S. epispærio* peritheciis majoribus, ascis vero et sporidiis minoribus neque minus substrato diverso; a *S. fimicolo* tandem ascis octosporis sporidiisque distincte limoniformibus distinguitur.

3. **Sphæroderma cameroense** Rehm Exot. Pilze p. 301. — Peritheciis gregariis, in cortice dealbato sessilibus, subiculo carentibus, dispersis, ovoideis, in papillam obtusam, poro vix perspicuo perforatam productis, cinnabarinis, basin versus fuscidulis, glabris, 0,2-0,4 mm. diam.; contextu parenchymatico; ascis fusosideo-cylindraceis, teneris, primitus, 8- dein sæpius 4-sporis, usque ad 180 μ . long., 12 μ . lat.; sporidiis monostichis, oblongis, obtusis, medio plus minus contractis, 2-ocularibus, primitus hyalinis, grosse 2-guttatis, glabris dein fuscis, episporio granuloso-scabro, 15-17 \approx 8.

Hab. ad corticem putridum, Camerun Africa occid.

ERYTHROCARPUM Zuk. Ueb. ein. Pilze und Bakt. 1885, p. 7 (Etym. *erythros* ruber et *carpos* fructus). — Perithecia subglobosa, carnosula, læte colorata, pilis brunneo-rubris vestita, ostiolo punctiformi. Asci lineares, mox evanidi, 8-spori. Sporidia limoniformia, continua, dilute colorata. — Nonnullis notis ad *Chætomium* vergit; a *Sphærodermate* peritheciis vestitis recedit.

1. **Erythrocarpum microstomum** Zuk. Ueber ein. Pilze und Bakt. 1885, 3826
p. 7, t. XV, f. 5. — Peritheciis globosis, raro ovoideis, circ. 360-400 μ . alt., carnosu-coriacellis brunneo-rubris, pilis solitariis incurvis, rigidis, brunneo-rubris vestitis; ostiolo punctiformi, vix prominulis; ascis numerosissimis, linearibus, breve stipitatis, p. sp. 58-68, mox evanescentibus, 8-sporis; sporidiis recte monostichis, citriformibus, utroque apice poro notatis, levibus, 9,8 \approx 6,8, rubro-aurantiis.

Hab. in ramis putridissimis Fagi pr. Wien Austriæ. — Perithecia mycelio byssoideo, rubro-brunneo, conidia nunc 30 \approx 6, quadrilocularia nunc rotunda 12 μ . v. 30 μ . diam. gerente insidentia.

MELANOSPORA Corda. — Sacc. Syll. II, p. 461.

1. **Melanospora ornata** Zukal Ueb. ein. neue Pilze, Myx. Bakt. p. 10, 3827
tab. XV, fig. 2. — Peritheciis sparsis, superficialibus, globosis, apice ostiolo, setis luteis cincto, præditis, 180-200 μ . diam.; ascis crasse saccatis, octosporis, mox evanidis, sessilibus, 40 \approx 30; sporidiis ellipticis, utrinque obtuse acuminatis, 14-15 \approx 10-11, brunneis, episporio crasso, reticulato præditis.

Hab. in Polyporo zonato prope Wien Austriæ. — *M. lagenariæ* propinqua, a qua ostiolo setoso, sporidiis reticulatis distinguitur.

2. **Melanospora sphærodermoides** Grove New not. Fungi pag. 4, 3828
n. 60, tab. 256, fig. 4. — Peritheciis liberis, sparsis, fere levibus, pallide luteo-fuscis, dein fuscis, semipellucidis rotundatis vel ovatis, in rostrum breve pilis longis subhyalinis, continuis, apice fimbriatum productis; ascis clavatis, stipitatis, maxime diffluentibus, 8-sporis, 80-90 \approx 30; sporidiis superne visis late fusoides, e latere oblique ovoideo-oblongis, curvatis, gutta magna instructis, hyalinis, dein olivaceis, subopacis, 30-34 \approx 15-17.

Hab. ad caules Heraclei apud Bradnok's Marsh (Warwickshire) Brit. — Peritheciis contextu e cellulis magnis hexagonis constat. Huic socium *Sphæronæma*, *S. vitreo* subsimile, sporulis

oblongis, hyalinis, 6-8 \approx 2 $\frac{1}{2}$. Quoad perithecium, species hæc *M. Zobelii*; quoad locum natalem, ascos, sporidia *Sphærodermati theleboloidi* magis appropinquat.

3. **Melanospora Solani** Zukal Ueb. ein. neue Pilze, Myx. Bakt. p. 10. — 3829

Peritheciis gregariis, superficialibus, flaveolis, 160-200 μ . altis, basi hyphis parcis, radiantibus cinctis; ostiolo in collum cylindricum, perithecio duplo longius attenuato, 30-35 μ . lato, sæpius spirali-ter incurvato, apice non ciliatis, sed undique vix lanosulis; ascis octosporis, late clavatis, breviter stipitatis mox evanidis, 30 \approx 25; sporidiis 2-3-stichis, breviter cylindræis vel fere cuboideis, brunneis, exosporio levi donatis, 5-6 \approx 3-4.

Hab. in tuberibus Solani tuberosi ad colenda *Chætomia* adhibitis, Wien Austriæ.

4. **Melanospora stysanophora** Matt. in Giorn. Bot. It. 1886, p. 121, 3830

tab. VIII et IX, fig. 1-20. — Peritheciis rufo-brunneis, sphæroidis, $\frac{1}{4}$ mm. diam., in collum breve, apice penicillatum, pertusum desinentibus; ascis ovoideo-elongatis, demum dilabentibus, octosporis; sporidiis ovoideis, utrinque breve acuminatis, 9 \approx 6, flaveolis.

Hab. in epispermate Castaneæ vescæ, Torino It. bor., socio *Echinobotryo atro*. — Status conidicus *Stysanus Stemonites*, deutericonidicus *Acladii* forma.

5. **Melanospora Gibelliana** Matt. in Giorn. Bot. it. 1886, p. 141, t. IX, 3831

fig. 21-39. — Peritheciis ovoideis, striguloso-pubescentibus, subiculo tomentoso insidentibus, flaveolis rostratis, rostro sursum penicillato; ascis ellipsoideis, breviter noduloso-pedicellatis, octosporis; sporidiis ovoideis, utrinque acuminatis, 24-25 \approx 15, fuligineis.

Hab. in epispermate Castaneæ vescæ, Torino Ital. bor.

6. **Melanospora antarctica** Speg. F. Fueg. n. 269. — Peritheciis sparsis 3832

v. hinc inde dense aggregatis, globulosis, 200-250 μ . d., plus minus tenui-membranaceis, contextu subindistincto, parenchymatico, melleo, subiculo e roseolo sulphureo, plus minus effuso, ex hyphis hyalinis, continuis, 3-6 μ . cr., dense ramoso-intricatis composito, vestitis, ostiolo prælongo, crassiusculo, 0,5-1 mm. long., 90-100 μ . cr., membranaceo, prosenchymatico, cylindræo, apice obtuso et papilloso, recto donatis; ascis mox fatiscentibus, cylindræis?; sporidiis monostichis, ellipticis v. globoso-ellipticis, e latere compressis, 9-12 \approx 6-8 \approx 3-4, utrinque obtuse rotundatis (an prima ætate inferne minute hyalino-appendiculatis?), opace fuligineis.

Hab. in ramis dejectis putrescentibus Fagorum pr. Ushuvaia et Agaia Fuegiæ Amer. austr. — Species subiculo flavo mox di-

gnoscenda, quandoque corticola sparsa superficialia, quandoque dense constipata tuberculoso-erumpens vel tecta in Sphæriaceis parasitans. Perithecia pellucida ac mellea ob sporidia inclusa sæpius nigra apparent.

7. **Melanospora Marchaliana** Bomm. Rouss. Sacc. nov. sp. — Peritheciis sparsis, copiosis, erectis, conico-subulatis, cornicoloribus, levibus, nitidis, 300-360 μ . long., 280 μ . cr.; ascis cylindraceutis, 105 \approx 9, facile diffluentibus; sporidiis monostichis, ellipsoideis v. subcymbiformibus, 15-18 \approx 6-7, brunneis, 2-guttulatis. 3833

Hab. in lamellis Lactarii delicosi, socio *Stilbo pellucido*, Ebly Belgii (E. MARCHAL).

8. **Melanospora coprophila** Zukal Ascomyc. p. 25, t. II, f. 9-24. — Peritheciis gregariis, raro solitariis, sæpius 2-3-confluentibus, molibus, flavidis vel flavido-rubellis, pellucidis, circ. 450 μ . diam., collo minutissimo, ostiolo levi vel indistincte ciliato præditis; ascis clavatis, breve stipitatis, supra subangustatis, 8-sporis, parte sporifera circ. 48 \approx 20; paraphysibus simplicibus, parum numerosis, filiformibus, hyalinis; sporidiis ellipsoideis, utrinque obtusis, brunneis, 20 \approx 11. 3834

Hab. in fimo equino, Wien Austriæ.

9. **Melanospora fallax** Zukal Ascom. p. 28, t. I, f. 7-10. — Peritheciis solitariis, subglobosis, pilosis, apice prominulo, papilliformi, ciliato præditis, pellucidis, flavidis, circ. 600 μ . diam.; ascis late clavatis, indistincte stipitatis, 8-sporis, 80 \approx 40; sporidiis ellipsoideis, utrinque acuminatis, inæquilateris, sæpe irregularibus, brunneis, circ. 26-30 \approx 13-15. 3835

Hab. in stipitibus vetustis Botrytidis Acinorum, Wien Austriæ.

10. **Melanospora Fayodi** Vuill. Etud. bot. s. l. Champ. — Peritheciis sparsis, superficialibus, subglobosis, 240 μ . diam., pallide flavis, papilla v. rostro carentibus, ostiolo pilis penicillatis, 35 μ . long., coronato, præditis; contextu irregulariter parenchymatico, pellucido; ascis clavatis, membrana tenui, fugaci, 8-sporis, p. spor. 38 \approx 18; sporidiis navicularibus, viridibus, utrinque truncatis, sed breviter (2,5 μ .) hyalino-productis, 17 \approx 8. 3836

Hab. in ascomatibus Leotiæ lubricæ prope Épinal Vosges Galliæ. — Adsunt etiam sclerotia peritheciis paullo majoribus.

BACULOSPORA Zukal Neue Ascom. p. 3 (Etym. *baculus* et *spora*). — Stroma nullum. Mycelium parce evolutum, evanescens. Perithe-

cia semiimmersa, membranacea, pellucide flava. Asci acuminato-clavati, membrana valde incrassata. Sporidia octona, cylindracea, brunnea.

1. **Baculospora pellucida** Zukal l. c. t. I, f. 2. — Peritheciis ampulliformibus, levibus, pellucide flavis, semiimmersis, circ. 200 \approx 85; ascis acuminato-clavatis, breve stipitatis, membrana circ. 4,8 μ . cr., 8-sporis, p. sp. circ. 112 \approx 18; sporidiis oblique monostichis v. indistincte distichis, rectis vel subincurvatis, cylindraceis, utrinque rotundatis, episporio brunneo, circ. 42 \approx 8.

Hab. in fimo equino in Austria.

SCOPINELLA Lév. in Dict. Univ. H. N. 126, Sacc. Michel. I, p. 284. (Etym. *scopæ*) — Perithecia *Melanosporæ*. Asci polyspori. Sporidia ovoidea vel cuboidea. — Cum *Scop. barbata* sit 8-spora, sec. Montagne, in Syll. II, p. 463, sub gen. *Melanospora* reduxi, nunc autem, specie vere polyspora comperta, gen. *Scopinella* est servandum.

1. **Scopinella plejospora** (Schroet.) Sacc. *Melanospora?* *plejospora* 3838 Schroet. Nord. Pilze p. 9. — Peritheciis semiimmersis, globosis, levibus, ostiolo conico brevi præditis, 0,3 mm. cr. tenuibus, nigricantibus; ascis tereti-ellipsoideis, subsessilibus, utrinque acutatis, 65-80 \approx 10-12, polysporis (sæpius 16-24-sporis); sporidiis inordinate distichis, ellipsoideis, 8-10 \approx 5-6, continuis, olivaceo-brunneis demum atro-brunneis; paraphysibus copiosis filiformibus coalescentibus.

Hab. in stercore leporino, Tromsö Birkenwald Norvegiæ.

Sect. 3. Hyalodidymæ.

CHARONECTRIA Sacc. — Syll. II, p. 466.

1. **Charonectria succinea** (Rob. et Desm.) Sacc., *Sphæria succinea* 3839 Rob. et Desm. 16 Not. pag. 354. — Hypophylla, minutissima, gregaria; peritheciis numerosis, membranaceis, pallidis, immersis, epidermide tectis; ostiolis nullis; nucleo gelatinoso, succineo; ascis subclavatis 70 μ . long., sub-8-sporis; sporidiis ovoideis, hyalinis, uniseptatis, 10 μ . long.

Hab. in foliis exsiccatis *Quercus* in Gallia.

2. **Charonectria australis** Speg. F. Fueg. n. 270. — Peritheciis sparsis vel vix hinc inde 2-3-subgregariis, immersis, epidermide vela-

tis, vix prominulis globulosis, 250-300 μ ., carnosulo-membranaceis, melleis, glabris, contextu dense parenchymatico, fulvello, ostiolo vix papillulato, obtuso, crasso coronatis; ascis late clavatis, antice obtuse rotundatis v. subtruncatis, crasse tunicatis, postice in pedicellum breviusculum ac crassum productis, p. sp. 110-120 \approx 30, pedicello 20-25 \approx 8-10, octosporis; paraphysibus filiformibus, guttulatis, mucosis ægre visibilibus obvallatis; sporidiis di-tri-stichis, cylindraceis vel cylindraceo-subfusoideis, utrinque obtusiusculis, 75-80 \approx 12, rectis v. leniter sigmoideis, medio 1-septatis, constrictulis, nubilosofarctis, hyalinis, strato mucoso, tenui obvolutis.

Hab. in culmis emortuis putrescentibus Rostkoviæ grandifloræ in Staten island et pr. Ushuvaia Fuegiæ Amer. austr. — Perithecia per ætatem decidua ac matricem punctato-alveolatam relinquuntia.

HYPOMYCES Fr. — Sacc. Syll. II, p. 466.

1. **Hypomyces spadiceus** Fries in Herb. Berk. Cooke in Grev. XII, 3841 pag. 80. — Tenuis, effusus, spadiceus; peritheciis parvulis, 150-200 μ . diam., congestis, semiimmersis, ostiolo papillato, concolori; ascis cylindraceis; sporidiis arcte lanceolatis, uniseptatis, hyalinis, 16-20 \approx 3-3,5.

Hab. in Agaricis (?) in Suecia (E. FRIES).

2. **Hypomyces tomentosus** Fr., Sacc. Syll. II, p. 475, Cooke in Grev. XII, pag. 80. — Asci cylindracei; sporidia lanceolata, utrinque mucronulata, uniseptata, hyalina, 14-16 \approx 3.
3. **Hypomyces Tegillum** Berk. et Curt. Sacc. Syll. II, p. 475, Cooke in Grev. XII, p. 80. — Asci cylindracei; sporidia arcte lanceolata, uniseptata, hyalina, 14-16 \approx 3.
4. **Hypomyces? pannosus** (Schw.) Cooke in Grevillea XII, pag. 80, 3842 Journ. Myc. 1888, pag. 62, *Sph. pannosus* [Schw. Car. n. 172. — Sacc. Syll. II, p. 376. — Late effusus, albidus, pannosus, tenuis, margine fimbriato-byssino; peritheciis semiimmersis, pallidis, ostiolis punctiformibus, fuscis; ascis cylindraceis, 100-110 \approx 6-7; sporidiis monostichis, fusoideis, leniter constrictis 1-septatis, rugulosis, hyalinis, apiculatis, 25-27 \approx 5-6.

Hab. ad lignum putre in Louisiana Amer. bor. (LANGLOIS).

5. **Hypomyces Solani** Reinke et Berth. Zerset. Kartoff. p. 27, t. I 3843 et II. — Peritheciis solitariis, subiculo laxo insidentibus, piriformibus, dilute purpureis, collo aurantiaco, contextu tenui, pseudoparenchymatico, stratibus exterioribus coloratis, interioribus hyali-

nis; ascis 4-8-sporis; sporidiis oblique monostichis, primitus (raro semper) continuis, dein 1-septatis, episporio verrucoso guttulisque præditis, medio constrictis, 13-16 \approx 7-8.

Hab. in tuberibus Solani tuberosi in Germania, socio Fusisporio Solani conidiis fusoides, inæquilateris vel falcato-incurvis, continuis v. 1-5-septatis magnitudine varia, 10-50 \approx 5-8.

6. **Hypomyces flavescens** (Schw.) Cooke in Grevillea XII, p. 80. — 3844

Peritheciis gregariis, distinctis, globoso-ovatis, papillatis, albidis, villo secedente tectis, subiculo lacteo, latissimo, pubescente insidentibus; ascis cylindræis; sporidiis arcte ellipticis, hyalinis..... immaturis visis.

Hab. in hymenio resupinato Polypori, Bethlehem in America boreali (SCHWEINITZ in herb.).

NECTRIA Er. — Sacc. Syll. II, p. 479.

I. *Eu-Nectria* Sacc.

1. **Nectria Balansæ** Speg. Fung. Guar. Pug. I, n. 233. — Acervu- 3845

lis primo tectis, dein erumpentibus, epidermide laciniatim disrupta cinctis, mediocribus, 1-2 mm. diam., e convexulo applanatis, tenuibus, 0,5 mm. crassis, rubro-croceis vel coccineo-aurantiis, pulvere vel squamulis concoloribus vel vix obscurioribus adpersis; peritheciis minusculis, vix apice liberis compositis, e stromate per corticem lignumque serpente pallide croceo exsurgentibus, in pulvinulis stromatis immersis non v. vix prominulis, e globoso-ovoideis, 200-250 μ . diam., tenuibus membranaceis, contextu indistincto, fulvello, ostiolo vix mammillato-prominulo, subnigricante; ascis cylindræo-clavatis, 110-120 \approx 15-16, non vel vix pedicellatis, aparaphysatis, octosporis; sporidiis hyalinis, alterne distichis ellipticis vel elliptico-elongatis, 22-30 \approx 8-10, non vel vix inæquilateralibus, utrinque plus minusve acute rotundatis, medio 1-septatis, non constrictis, loculis primo granulosis, dein grosse 1-guttulatis, episporio longitudinaliter tenuissime densiusculeque striato.

Hab. ad corticem arborum dejectarum putrescentium in silvis prope Paraguari Brasiliæ.

2. **Nectria adelphica** Cooke et Mass. in Grev. XVIII, p. 51. — Cæ- 3846

spitosa; peritheciis in cæspitulos minutos (4-10), stromate aggregatis, globosis, compressis vel difformibus, levibus, cinnabarinis, ostiolo distincto pertusis, vix collabentibus; ascis cylindræis, octosporis; sporidiis ellipsoideis, magnis, uniseptatis, vix medio con-

strictis, utrinque subconoideis, hyalinis, 30-35 \approx 10, nucleatis, demum leniter longitudinaliter striatulis.

Hab. in ramis, Fort Dauphin, Madagascar (SCOTT ELLIOT). — Habitus *N. coccineæ*.

3. **Nectria cinnabarina** (Tod.) Fr., Sacc. Syll. II, p. 479 — ***amygdali-** 3847
na Karst. Rev. Myc. 1889. — Sporidiis 24-30 \approx 8-11; conidiis 9-15 \approx 3-5; peritheciis quam typi minoribus.

Hab. in ramis emortuis corticatis Amygdali nanæ in Fenicia ad Mustiala.

4. **Nectria Passeriniana** Cooke in Grev. XII, p. 81, *Nectria viticola* 3848
Pass. in Pirotta Fungi Vit. VII, pag. 45. — Subcæspitosa, erumpens; peritheciis subglobosis, carneis, in stroma pulvinatum conatis; ascis cylindræis, octosporis; sporidiis ellipticis, uniseptatis, hyalinis, 20 \approx 9.

Hab. in sarmentis Vitis, Parma Ital. bor.

5. **Nectria decolorans** Fries Scler. Suec. n. 184, Cooke in Grev. XII, p. 81. — Asci cylindrico-clavati; sporidia octona elliptica, utrinque rotundata uniseptata, leniter constricta, hyalina, 23-25 \approx 7,5.

6. **Nectria insularis** Speg. F. Fueg. n. 273. — Peritheciis cæspitosis, 3849
confertis, stromate pulvinulato, erumpente, appanato v. hemisphærico, 2-5 mm. diam., carnosulo insidentibus, pallescenti-rubris vel subcoccineis, globosis, 250-300 μ . diam., levibus, glabris, membranaceo-carnosulis, contextu densissime parenchymatico, subindistincto, ostiolo minuto, non vel vix papillulato, sæpius fuscescente instructis; ascis cylindræis v. subfusoidæo-cylindræis, sursum attenuatis, apice truncato-rotundatis, crassiuscule tunicatis, late perviis, deorsum longiuscule crasseque attenuato-pedicellatis, 85-95 \approx 7-8, octosporis, aparaphysatis; sporidiis oblique monostichis, rarius apice subdistichis, elliptico-biconicis, utrinque acutiuscule rotundatis, 18-20 \approx 5-8, medio 1-septatis, non v. leniter constrictis, dense minuteque papilluloso-asperulis, oculis non vel grosse 2-guttulatis, hyalinis.

Hab. ad ramos emortuos Berberidis ilicifoliæ pr. Pactolus cove in Staten island Fuegiæ Amer. austr.

7. **Nectria pithoides** Ell. et Ev. Proc. Phil. 1890, p. 247. — Dense 3850
cæspitosa, cæspitulos suborbiculares, 1,5-2,5 mm. diam., efformans; peritheciis stromate convexo, flavo insidentibus, 50-100-gregariis, ovoideis, atro-rubris, circ. 250 μ . diam., muriculato-rugosis, supra subcollabascentibus, ostiolo papilliformi, subprominulo; ascis cylindræis, 75-80 \approx 5; paraphysibus non visis; sporidiis 1-stichis, ob-

longo-ellipsoideis, 2-guttatis, dein 1-septatis, 6-10 \approx 3-3,5, fumoso-hyalinis.

Hab. in Alno vetusta, British Columbia Amer. bor. (MACOUN).
— *N. microsporæ* affinis sed peritheciis numerosioribus, saturatius rubris, muriculatis et parum collapsis.

8. **Nectria cœlosphærioides** Bomm. Rouss. Sacc. nov. sp. — Peritheciis superficialibus, dense cæspitosis, conoideo-cupuliformibus, rugulosis, ostiolo vix manifesto, membranaceo-mollibus, viridi-nigris; ascis cylindratis v. subclavatis, 55 \approx 6-7; paraphysibus filiformibus, parvis, octosporis; sporidiis ellipsoideis, 9-10 \approx 4-4,5, 1-septatis, 2-4-guttatis, 1-2-stichis, hyalinis.

Hab. in disco trunci Alni glutinosæ, Bois de la Cambre pr. Bruxelles Belgii.

9. **Nectria guarapiensis** Speg. Fungi Guar. Pug. I, n. 235. — Stromatibus cortice innatis, latissime ac plus minusve profunde serpentibus, sordide e roseo lateritiis; peritheciis in stromatis v. matricis mutatae superficie densissime gregariis, acervulos plus minusve pulvinatos, 1-3 mm. diam., 0,5 mm. crass., rugoso-rimulosos, discretos v. confluentes v. plagulas effusas, scruposo-undulatas, 5-25 mm. diam., efficientibus, udis, globosis vel globoso-depressis, 300-350 μ . diam., pallide fulvis, glabris, levibus, siccis cupulato-collapsis, rugulosis, membranaceo-carnosulis, contextu percrasse parenchymatico-celluloso, cellulis 15 μ . diam., fulvo-lateritio, ostiolo minute papillato, pallescente, subfimbriatulo, prosenchymatico-subhyalino donatis; ascis clavulatis, antice truncato-rotundatis, postice breviter crasseque attenuato-stipitatis, 55-65 \approx 10-14, aparaphysatis, octosporis; sporidiis distichis vel submonostichis, ellipticis vel obovatis, utrinque late rotundatis, 14 \approx 7, medio 1-septatis, non v. vix constrictis, hyalinis, levibus, loculis 1-guttulatis v. granulosis, subæqualibus.

Hab. ad truncorum cortices putrescentes in silvis prope Guarapí Brasiliæ.

10. **Nectria paraguayensis** Speg. Fung. Guar. Pug. I, n. 238. — Acervulis hemisphærico-pulvinatis, superne depressulis, inferne leniter coarctatis, 1-2 mm. diam., 0,5 mm. crass., compactis, sordide lateritiis, obsolete minuteque fusco-punctulatis, vix granulosis, glabris, intus gilvis; peritheciis elliptico-obovatis, in acervulorum stromate peripherice immersis, vix prominulis, disco libero applanato, medio ostiolo minute papillulato, fusco ornatis, 150 μ . diam., 200 μ . altis, carnosulis, contextu subindistincto, vivide fulvo-mel-

leo; ascis cylindraceo-subclavatis, mox diffluentibus, octosporis; sporidiis ellipticis vel elliptico-elongatis, 14-18 \approx 5-7, primo 2-4-guttatis, dein medio 1-septatis, constrictis, hyalinis, episporio longitudinaliter striato, loculis 1-2-guttulatis.

Hab. ad corticem ramorum putrescentium in dumetis, Cerro Hu Brasilæ. — Species primo obtutu pro *N. vulgari* facillime sumenda sed satis ab illa abhorrens.

11. **Nectria hypocreoides** Berk. et Cooke in Grevillea XII, p. 81. — 3854

Cæspitosa, erumpens, pallida; peritheciis subglobosis, mox confluentibus, 250 μ . diam. in stroma tubercularioides densissime congestis, furfure flavo-pallescente conspersis; ostioliis nudis, obscurioribus; ascis cylindraceis, octosporis; sporidiis ellipticis, hyalinis, endochromate bipartito, nec vere uniseptatis, 12 \approx 4.

Hab. in corticibus, Bombay in Africa (H. J. CARTER).

12. **Nectria collabens** Berk. et Cooke in Grevillea XII, pag. 81. — 3855

Cæspitosa, erumpens, mellina; peritheciis in stroma tubercularioides congestis, subglobosis dein collabascentibus difformibusque, glabris, tenuissimis, 0,2 mm. diam.; ascis cylindraceis, octosporis; sporidiis late ellipticis, utrinque attenuatis, loculis subconicis, uniseptatis, hyalinis, magnitudine valde variabilibus, 12-14, rarius 18 \approx 6.

Hab. in corticibus, Bombay Indiæ or. (H. J. CARTER).

13. **Nectria alutacea** Berk. et Cooke in Grevillea XII, pag. 81. — 3856

Cæspitosa, erumpens, alutacea v. incarnata; peritheciis in stroma ellipsoideum vel elongatum congestis, subglobosis, papillatis, levibus, glabris, 0,25 mm. diam., translucetibus; ascis clavatis, octosporis; sporidiis biseriatis, ellipticis, uniseptatis, hyalinis, 10-12 \approx 3.

Hab. in corticibus, Neilgherries in India (E. S. BERKELEY).

14. **Nectria infusaria** Cooke et Harkn. in Grevillea XII, p. 101. — 3857

Cæspitosa, erumpens, pallide rubra; peritheciis paucis, ovalibus, ceraceo-mollibus subconfluentibus, levibus, glabris, 5-10 in stromate; ascis cylindraceis, octosporis; sporidiis uniseriatis, ellipticis, obtusis, uniseptatis, nec constrictis, hyalinis demum pallidis, 10 \approx 4,5. — Status conidicus: **Fusarium Acaciæ**: conidiis plerumque consociatis vel in pustulis præcedentibus, fusarioideis curvulis, utrinque acutis, triseptatis, gracilibus, hyalinis, 30-40 \approx 2,5; stromate pulvinato, rubro-pallescente.

Hab. in ramis Acaciæ, in California.

15. **Nectria ferruginea** Cooke in Grevillea XIII, p. 8. — Erumpens, 3858

cæspitosa; peritheciis ceraceis, subglobosis, atro-fuscis, ob pressionem difformibus, primo pulvere ferrugineo tectis, demum nudis,

ostiolo pertuso; ascis clavatis, octosporis; sporidiis fusiformibus, uniseptatis, hyalinis, $25 \approx 6$.

Hab. in foliis vivis, bracteis etc. *Stypheliæ* (verisimiliter *S. viridifloræ*), Omeo Australiæ.

16. **Nectria atrofusca** (Schw.) Ell. et Ev. in Journ. of Myc. 1885, pag. 140, *Sphæria atrofusca* Schw. Syn. N. An. n. 1429, Sacc. Syll. II, p. 391. — Perithecia in stroma tuberculiforme, $1\frac{1}{2}$ mm. latum, lignum facile relinquens dense stipata, 24-40 in quoque stromate, minuta, $\frac{1}{6}$ mm. diam., depressa, conica, nigra, ostiolo subconico, expolito, sursum radiato-sulcato excepto indeque rugosa; asci circiter $75 \approx 16$, oblongo-cylindraceuti; sporidia hyalina vel subhyalina, maturitate dilute luteola, oblongo-ellipsoidea v. sæpe una extremitate acutiora, 1-septata, vix constricta, $10-12 \approx 4,5-5$, utrinque obtusa.

17. **Nectria Rousseauana** Sacc. et Roum. in Rev. Myc. 1883, t. 41, 3859 fig. 19. — Peritheciis in cæspitulos discoideos, 2 mm. latos collectis, stromate flavido suffultis, globoso-depressis, $\frac{1}{3}-\frac{1}{2}$ mm. diam., levibus, rubescentibus, dein fusco-lateritiis, collabascendo umbilicato-cupulatis, ostiolo brevi, obscuriore; ascis..... jam resorptis; sporidiis tereti-fusoideis, utrinque obtusiusculis, medio 1-septatis, vix constrictis, $20-24 \approx 5,5-6$, hyalinis.

Hab. in caule putri Brassicæ oleraceæ in Belgio. — A *N. punicea*, cui affinis, sporidiis longioribus matriceque mox dignoscitur.

18. **Nectria coccogena** Speg. F. Puigg. n. 289. — Peritheciis globosis, $120-150 \mu$. diam., dense constipatis, crusta stromatica insidentibus, glabris, obscure aurantiis, vix ostiolo papillulatis, primo pruinula gossypinula, hyalina adpersis, mox glabratis; contextu parenchymatico, sinuoso, parum distincto; ascis cylindraceutis, deorsum modice attenuato-pedicellatis, 8-sporis, $100-120 \approx 14-16$, apaphysatis; sporidiis oblique monostichis vel subdistichis, ellipticis, utrinque obtusis hyalinis, medio 1-septatis, non constrictis, $20-26 \approx 8-10$.

Hab. ad Cocos emortuos in foliis vivis *Eugeniæ* sp. cujusdam prope Apiahy Brasilæ. — Cum *N. Coccorum* non comparanda.

II. *Dialonectria* Sacc.

19. **Nectria miliaria** Pass. Diagn. Fung. novi, III, n. 32. — Peritheciis minutis, globosis v. ovatis, solitariis v. paucis aggregatis, pri-

mo tectis, dein per epidermidem perforatam emersis, sordide aurantiacis, ostiolo obtuso, perforato interdum collapsis; contextu minute celluloso, luteo-aurantiaco; ascis paraphysatis, subclavatis, attenuato-stipitatis, 8-sporis, 50-80 \approx 5-7,5; sporidiis distichis fusiformibus, rectis v. curvulis medio tenuiter septatis, hyalinis, 25-35 \approx 4-5.

Hab. in ramis siccis Ulmi campestris, Vigheffio in agro parmensi Ital. bor. — Adest status secundarius, peritheciis similibus, sporulis minutis allantoideis.

20. **Nectria athroa** Ell. et Ev. Proc. Phil. 1890, p. 247. — Peritheciis 3862
dense gregariis, ovoideis, 150-200 \approx 110-120, atro-rubris, levibus v. sublevibus, non collabescentibus; ascis longe cylindraceutis, evanescentibus, p. sp. circ. 35 μ . long.; sporidiis 1-stichis, oblongo-ellipsoideis, hyalinis, utrinque obtusis, 1-septatis, subconstrictis, 5-6 \approx 2,5.

Hab. in trunco dejecto Aceris Pseudoplatani, Manhattan, Kansas Amer. bor. (KELLERMAN et SWINGLE). — *N. ditissimæ* affinis sed peritheciis magis regularibus et sporidiis multo minoribus.

21. **Nectria pallidula** Cooke in Grev. XVII, p. 3. — Peritheciis 1-2- 3863
v. subinde 12-20-gregariis, globosis, minutis, 200 μ . diam., pallide ochraceis, per epidermidem erumpentibus, in ligno nudo effusis; ascis clavato-cylindraceutis; sporidiis plerumque monostichis, subfusoides, 1-septatis, 12 \approx 3, hyalinis.

Hab. in cortice et ligno Fagi, Carlisle Britannicæ (Doct. CARLYLE).

22. **Nectria consanguinea** Rehm Ascom. Ill. n. 881. — Peritheciis 3864
gregariis, rarius sparsis, sessilibus, globosis vel ovoideis, apice collabentibus atque plus minusve patellaribus, sanguineis vel flavo-rubris 300-350 μ . diam., aurantiacis parenchymatice contextis; ascis cylindraceutis, teneris, 8-sporis ad 90 μ . long., 6 μ . latis; sporidiis oblongo-ellipticis, obtusis, rectis bicellularibus, utroque loculo nucleo 1 magno prædito, ad septum haud constrictis, hyalinis, 10-11 \approx 4,5 monostichis; paraphysibus teneris, ramosis, septatis, ad 3 μ . latis.

Hab. ad trabes fagineas prope Arnheim Hollandicæ (MAGNUS). — *N. sanguinea* imprimis sporidiis majoribus magis rotundatis differt.

23. **Nectria rugulosa** Pat. Bull. Soc. Myc. 1888, p. 115. — Peritheciis 3865
gregariis, ovoideis, apice mammillatis, minutis, rugoso-tuberculatis, rubris, subcarnosis; ascis clavatis, stipitato-attenuatis, api-

ce rotundatis, 8-sporis, $100 \approx 10$; paraphysibus hyalinis, linearibus; sporidiis ovoideo-fusiformibus, utrinque attenuatis, medio annulato-prominulis, 1-septatis, guttulatis, $15-16 \approx 5-6$, hyalinis.

Hab. in cortice inter *Jungermannias*, Puerto-Zamuro Venezuelæ.

24. **Nectria lætifulva** Berk. et Cooke in *Grevillea* XII, p. 12. — 3866
Gregaria sparsave, læte fulva; peritheciis superficialibus, globosis, papillatis, glabris, levibus, 0,2-0,25 mm. diam.; ascis clavatis, octosporis; sporidiis biseriatis, breviter lanceolatis, uniseptatis, hyalinis, $14 \approx 4$.

Hab. in corticibus, Neilgherries in India (E. S. BERKELEY).

25. **Nectria silacea** Schulz. et Sacc. in *Rev. Myc.* 1884, Schulz. Ill. 3867
fung. Slav. n. 925. — Peritheciis gregariis, discretis, superficialibus, globoso-depressis, 300-330 μ . diam., ostiolo vix manifesto, ochraceo-argillaceis, levibus, nitidulis, denique collabascentibus; ascis tereti-clavulatis, breve stipitatis, aparaphysatis, octosporis; sporidiis distichis v. oblique monostichis, ellipsoideis v. breve oblongis, $10-14 \approx 3-4$, 1-septatis, vix constrictis, biguttatis, hyalinis.

Hab. in ligno corrupto Carpini Betuli prope Vinkovce Slavoniæ. — Species bene distincta.

26. **Nectria impolita** Mout. *Not. Ascom.* p. 78. — Superficialis, sparsa, sanguinea; peritheciis globosis, glabris, sublevibus; ostiolo brevi rotundato, 170 μ . lat.; ascis initio cylindratis, demum in parte superiore inflatis, apice truncatis, $70 \approx 6$, octosporis; sporidiis primo monostichis, ellipsoideis, $8-9 \approx 4$, utrinque obtusissimis, ad septum vix constrictis, episporio rudi, fuscidulo.

Hab. in fragmento ligni vetusti, Beaufays Belgii.

27. **Nectria sphæroboloides** Starb. *Skand. Pyren.* p. 5, t. 1, f. 2. — 3869
Peritheciis gregariis, superficialibus, 250-300 μ . diam. rugosis, 2-3 confluentibus, hyphis myceliicinctis, aurantio-rubellis, denique sulphureo-flavidis, ovoideo-hemisphæricis, papillatis, deinde collabendo patellatis; ascis teretibus, breve stipitatis, apice incrassatis percussisque, 8-sporis, $55-65 \approx 8$; sporidiis oblique monostichis v. subdistichis, ellipsoideis, utrinque obtusis, 1-septatis, 2-guttatis, $10-12 \approx 5-6$; paraphysibus nullis.

Hab. in ligno mucido prope lacum Ringsjön Scaniæ.

28. **Nectria Hippocastani** Allesch. *Suedbay. Pilz.* p. 160, t. I, f. 2. — 3870
Peritheciis dense gregariis, subcrustiformibus, lateritiis, dein expallentibus, globosis, levibus, papilla præditis, ad ostiolum demum rostratum depressis; ascis cylindratis v. lanceolatis, stipitatis, 8-

sporis, circ. 60-90 μ . long.; sporidiis subdistichis, lanceolatis, utrinque attenuatis, medio constrictis, 1-septatis v. etiam (junioribus?) continuis, hyalinis, circ. 10-12 \approx 3-4.

Hab. in seminibus putridis *Æsculi Hippocastani* dejectis prope München Baviaræ. — Socia adest *Tubercularia* verisim. *carpigena* Corda et *Fusidii* sp. conidiis cylindræis, 1-septatis, 20-36 \approx 3, hyalinis, forte *Nectriæ* status secundarii.

29. **Nectria auricoma** (Wallr.) Mont. — Sacc. Syll. II, p. 509. — Teste Fautrey in Rev. myc. 1890, p. 120: asci fusoides, 60 \approx 12, tunica tenuissima; sporidia oblonga, oblique 1-sticha, 1-septata, curvula, guttulata, 20-25 \approx 4-5, hyalina. — In *Salice* vetusta decorata, Noidan Galliæ.

30. **Nectria Umbellulariæ** Plow. et Harkn. New Calif. Fungi pag. 9. 3871 — Peritheciis superficialibus, sparsis 200-230 μ . diam., globosis, subhyalinis v. roseis, hyphis mycelicis parvis externe cinctis; ostioli obtusis; ascis clavatis, 50 \approx 10-15; sporidiis hyalinis, ovoideis, uniseptatis, 10-12 \approx 5-8.

Hab. in *Umbellularia californica* in California.

31. **Nectria depallens** Cooke et Harkn. in Grevillea XIII, p. 82. — 3872 Sparsa gregariave, superficialis, testaceo-rubra, depallens; peritheciis subglobosis, glabris, nudis, opacis, $\frac{1}{4}$ - $\frac{1}{5}$ mm. d.; ascis clavatis, octosporis; sporidiis lanceolatis, utrinque subacutis, uniseptatis, nec constrictis, hyalinis, 22-24 \approx 4-5.

Hab. in caulibus *Lupini* in California (HARKNESS).

32. **Nectria Galii** Plowr. et Hark. New Californ. Fungi pag. 9. — 3873 Peritheciis sparsis, immersis, demum erumpentibus, obtusis, pallide rubris; ascis cylindræis, delicatis, 60 \approx 5-8, octosporis; sporidiis monostichis, pallide flavis, oblongo-ovoideis, utrinque acutis, 10 \approx 5.

Hab. in *Galio trifolio* in California. — Sporidia demum uniseptata?

33. **Nectria xanthostigma** Berk. et Cooke in Grevillea XII, p. 83. 3874 — Sparsa, superficialis, flavida; peritheciis levibus, glabris subglobosis, 2 mm. diam., leniter papillatis; ascis clavatis, octosporis; sporidiis biseriatis, arcte ellipticis, utrinque rotundatis, uniseptatis, hyalinis, 10 \approx 3.

Hab. in caulibus herbaceis, *Neilgherries* in India (E. S. BERKELEY).

34. **Nectria Dahliæ** Rich. Cat. Champ. Marn. n. 1458. — Peritheciis 3875 globulosis, brunneo-rubellis, dein nigris, gregariis sed distinctis;

ascis clavatis, paraphysibus mucosis cinctis; sporidiis ellipsoideo-elongatis, subcurvulis, hyalinis, guttulis faretis.

Hab. in caulibus putridis Dahliæ, Marne Galliæ. — Perithecia interdum conidiis hyalinis, basidiis 1-2-septatis suffultis (*Oospora nectricola* Rich.) adpersa.

35. **Nectria Epichloe** Speg. Fungi Guar. Pug. I, n. 240. — Peritheciis matrice sæpius infuscata (macula effusa, brunnea, non determinata) insidentibus, hypothallo furfuraceo-pruinuloso, candido donatis, densissime subcrustaceo-aggregatis, pallide aurantiacis vel fulvo-melleis, siccis subcupulato-collapsis, ruga transversa prominula percursis, udis globosis, 80-120 μ . d., glabris, levibus, carnosulis, contextu minutissime ac indistincte parenchymatico-celluloso fulvello; ascis fusoideo- vel cylindraceo-clavatis, apice truncatis crassiusculeque tunicatis, deorsum modice attenuato-stipitatis, 50-55 \approx 7-8; paraphysibus paucis, filiformibus simplicibus obvallatis, octosporis; sporidiis ellipticis v. elliptico-ovoideis, utrinque acute rotundatis, 9-11 \approx 3-4, primo continuis, dein medio 1-septatis, non constrictis, loculis non v. guttulatis, hyalinis.

Hab. ad folia viva Andropogonis speciei cujusdam in pratis prope Guarapí Bras. — Species pulcherrima distinctissima, habitu *Epichloem typhinam* perfecte æmulans, characteribus fructificationis tamen mox distinguenda, facile novum genus constituens.

36. **Nectria giberelloides** (E. et E.) Sacc. *Dialonectria* E. et E. Journ. Myc. 1888, p. 122. — Peritheciis sparsis, subnigris, 150-200 μ . diam., basi in stipitem brevem contractis, demum collabascentibus, contextu minute parenchymatico, numquam cyaneo; ascis oblongis vel clavato-oblongis, sessilibus, circ. 35 \approx 5, aparamphysatis; sporidiis subdistichis, fusoideis, 1-septatis, rectis vel unum apicem versus incurvis, flavido-hyalinis, 12-15 \approx 2,5-3.

Hab. in culmis emortuis Zeæ Maydis, Pointe à la Hache Louisiana Amer. bor.

37. **Nectria filicina** Cooke et Hark. in Grevillea XII, pag. 101. — Sparsa vel gregaria, aurantia, intra squamulas filicis nidulans; peritheciis obovatis, levibus, glabris, subnitidis, vix papillatis; ascis cylindraceis, octosporis; sporidiis elliptico-cylindricis, utrinque obtusis, hyalinis, 8 \approx 2,5.

Hab. in stipite filicino in California.

38. **Nectria asperula** Winter in Hedwigia 1886, pag. 93. — Peritheciis dense sparsis seu gregariis, superficialibus, e basi globosa conoideis in ostiolum conicum vel breve cylindricum, dilutius, fere

hyalinum, attenuatis, mollibus rugosiusculis, carnosis, helvolis, 260-290 μ . altis (cum ostiolo), 200 μ . diam.; ascis cylindraceutis, deorsum parum attenuatis, 8-sporis, 80-90 \approx 5-7; sporidiis monostichis, oblongo-cylindraceutis, parum inæquilateralibus, utrinque rotundatis, deorsum parum attenuatis, medio uniseptatis sed non constrictis, dense verrucosis, hyalinis, 14-16 \approx 4,5.

Hab. in hymenio Sterei subpileati, St. Thomè Afr. occ.

39. **Nectria episphæria** Fries, Sacc. Syll. II, p. 497 — var. **verruculosa** Cooke in Grev. XII. pag. 82. — Peritheciis obtuse verrucosis, vix collabascentibus; ascis sporidiisque ut in typo. 3880

Hab. in peritheciis Cucurbitariæ? confinis, Java.

40. **Nectria Leptosphæriæ** Niessl in Krieg. F. Sax. n. 165, Rehm 3881
Asc. n. 880. — Peritheciis sparsis perexiguis, superficialibus, sanguineis, conoideo-globosis dein sæpe umbilicatis, $\frac{1}{8}$ - $\frac{1}{6}$ mm. d.; ascis clavatis, tenuibus, 8-sporis, 75-90 \approx 9; sporidiis ellipsoideis, obtusulis, rectis vel curvulis, 1-septatis, 2-4-guttatis, ad septum leniter constrictis, hyalinis, 15-17 \approx 4-5, sursum distichis; paraphysibus tenuibus septatis, 3 μ . cr.

Hab. ad perithecia et in mycelio Leptosphæriæ in caulibus Urticæ dioicæ pr. Königstein Saxonix (KRIEGER).

41. **Nectria rhytidospora** Pat. Journ. Bot. 1889, p. 343 c. ic. — Peritheciis minutissimis, $\frac{1}{2}$ mm. diam., ovoideis, levibus, apice papillatis, mollibus, aurantio-rubris, sparsis v. 3-4-gregariis; ascis cylindraceutis, 8-sporis, aparaphysatis; sporidiis monostichis, ovoideis, hyalinis, subinæqualiter 2-ocularibus, ad septum constrictis, striis longitudinalibus tenuibus et confertis percursis, 13-16 \approx 6-7. 3882

Hab. parasitica in Valsa congesta in insula Martinica.

42. **Nectria ostiolorum** Berk. et Cooke in Grevillea XIII, p. 8. — Parasitica, sparsa, ochroleuca; peritheciis globosis, minutis, 100-200 μ . diam., leniter furfuraceutis, superficialibus, ostiolo pertuso; ascis cylindraceuto-clavatis, octosporis; sporidiis ellipticis, hyalinis, uniseptatis, 12 \approx 5. 3883

Hab. in Xylariæ rhopaloidis stipitibus in Cuba.

43. **Nectria guaranifica** Speg. F. Guar. II, n. 90. — Peritheciis solitariis v. 1-2-aggregatis, primo hyphis gossypinulis albis vestitis, dein nudis, rufescenti-aurantiis vel subsuccineo-vinosulis, globosis, 150-180 μ . diam., levibus, subcarnosulo-membranaceutis, contextu subindistincto, superne latiuscule perforato-ostiolatis; ascis subclavatis, apice obtusiuscule rotundatis, deorsum breviter crasseque stipitatis, 85-95 \approx 20, octosporis, aparaphysatis; sporidiis oblique di- 3884

stichis, elliptico-elongatis, utrinque acutiuscule rotundatis, 26-30 \approx 10, primo 4-guttulatis, dein medio 1-septatis, non constrictis, episporio subimperspicue longitudinaliter striolato, hyalinis, in senectute sæpe fuscescentibus.

Hab. ad ostiola *Phomatosporæ* botryosphærioidis parasitans in ramulis putrescentibus prope Guarapí Brasiliæ. — *Pruinula* perithecorum juvenilium an status conidiophorus *Phomatosporæ*?

44. **Nectria phycophila** Zokal in Flora 1891, p. 102, t. III, f. 26-32. 3885

— Peritheciis gregariis, 100-200 μ . alt., superficialibus, ex ovoideo obtuse conicis, cyaneo-rubris, demum confertis et brunneolo-rubris, levibus, carnosio-membranaceis, minute papillato-ostiolatis; ascis anguste clavatis, distincte stipitatis, 50-60 \approx 17-20, p. sp. 8-sporis; sporidiis oblique monostichis v. indistincte distichis, 2-ocularibus, loculis sæpe inæqualiter longis et latis, vix constrictis, uno apice vulgo rotundatis, hyalinis, circ. 15-16 \approx 6-7; conidiis ignotis.

Hab. in *Hypheotrice* *Zenkeri*, Höllenthall et Baden Austriæ bor.

45. **Nectria Coccorum** Speg. Fungi Guar. Pug. I, n. 234. — Peri- 3886

theeciis globosis, minutis, 180-200 μ . diam., levibus, glabris, aurantiacis v. aurantio-roseis, solitariis vel laxè 2-5-aggregatis, stromate tenui vix manifesto, matricem obtegente, concolore semiimmersis, ostiolo minuto, vix fuscidulo et papillulato donatis, carnosulo-submembranaceis, contextu dense parenchymatico flavescenti-aurantio, ad ostiolum fuscescente præditis; ascis cylindraceo-clavatis, aparaphysatis, octosporis, mox diffluentibus; sporidiis cylindraceo-fusoideis vel elliptico-elongatis, utrinque obtuse acutatis, 22-25 \approx 5, medio uniseptatis, non v. leniter constrictis, loculis crasse 1-guttulatis, hyalinis.

Hab. ad *Coccos* emortuos putrescentes in foliis dejectis putrescentibus Laurinæe cujusdam in silvis montanis de Peribebuy Brasiliæ. — An sporidia postremo 3-septata?

III. *Hyphonectria* Sacc.

46. **Nectria oidioides** Speg. F. Puigg. n. 284. — Peritheciis hypophyl- 3887

lis, laxè gregariis, globulosis, 80-90 μ . diam., aurantiis, astomis, subiculo arachnoideo-pelliculoso, candido, 1-2 mm. diam., insidentibus; ascis fusoides, 8-sporis, basi minuteque pedicellatis, 50-60 \approx 9-10, aparaphysatis; sporidiis distichis, clavulatis, 1-septatis, hyalinis, non constrictis, 20 \approx 4.

- Hab.* ad folia viva Sapindaceæ cujusdam in dumetis prope Apiahy Brasilæ. — An ob ostioli defectum melius novum genus?
47. **Nectria chrysocoma** (Cooke et Harkn.) Berl. et Vogl. Add. Syll. 3888
p. 204, *Byssonectria chrysocoma* Cooke et Harkn. in Grevillea XII,
pag. 101. — Lignicola; stromate fibroso-byssosideo, aureo, effuso;
peritheciis minutis, gregariis 0,1-0,15 mm. diam., obovatis, tenui-
bus, flavido-fuscis, stromate semiimmersis; ascis clavatis, octosporis;
sporidiis biseriatis, arcte ellipticis, uniseptatis, hyalinis, $10 \approx 2-2,5$.
Hab. in ligno Eucalypti in California.
48. **Nectria importata** Rehm Ascom. Ill. n. 933. — Peritheciis gre- 3889
gariis, plerumque in subiculo tenuissimo albidulo sessilibus, globo-
sis, apice umbilicatis poroque minutissimo pertusis, humidis car-
neo-fuscis, siccis purpureo-sanguineis, ad 500 μ . diam.; ascis cy-
lindraceutis, 8-sporis, $70-75 \approx 7-9$; sporidiis elongato-ellipticis, obtu-
sis, rectis, 1-ocularibus, nucleis 2 magnis instructis, dein 2-locu-
laribus, hyalinis, $9-11 \approx 4,5-5$, oblique monostichis; paraphysibus
teneris ramosis.
Hab. ad fibras Pandani vetusti in horto botan. Berolinensi
(MAGNUS). — A *N. Pandani* omnino diversa.
49. **Nectria vagabunda** Speg. Fungi Guar. Pug. I, n. 239. — Peri- 3890
theciis epiphyllis, sparsis, solitariis vel 2-5-aggregatis, hypothallo
candido furfuraceo- vel velutino-tomentosulo insidentibus basique
vestitis, siccis cupulato-collapsis, udis globulosis, $150-350 \mu$. diam.,
ex albo aurantiacis, levibus, glabris vel puberulis tenuissime ce-
raceo-membranaceis, contextu indistincto; ascis clavatis, antice ro-
tundatis, postice breviter crasseque stipitatis, $50-55 \approx 15$, paraphy-
sibus densis, filiformibus, simplicibus, obvallatis, octosporis; spori-
diis distichis vel inordinate polystichis, ellipticis, utrinque obtu-
siusculis, $12 \approx 4,5$, medio 1-septatis, constrictis, hyalinis.
Hab. ad folia viva Bambusaceæ cujusdam in Pastoreo de
Caaguazù Bras. — Species pulchella, mox dignoscenda ac novi
generis facillime typum sistens. — Jodi ops nulla.
50. **Nectria cinericola** Quél. 14 Suppl. p. 10, tab. VIII, fig. 29. — 3891
Peritheciis numerosis, sphæroideis, 300-400 μ . diam., subtiliter
granulosis, rubro-aurantiacis, mycelio tenui, arachnoideo albo insi-
dentibus; ostiolo leniter papillato, dein fimbriato; sporidiis ellipsoi-
deis, 14 μ . longis, septatis, 2-4-guttulatis, hyalinis,
Hab. inter algas ad cinerem in areis combustis, Jura.
51. **Nectria sulphurea** (E. et Calk.) Sacc., *Dialonectria* E. et Calk. 3892
Journ. Myc. 1888, p. 57. — Subiculo tenui, farinoso-tomentoso,

flavo, 1 cm. v. ultra lat.; peritheciis sparsis, ovato-conicis, pruinosis, subsulphureis; ostiolo papillato, $\frac{1}{8}$ - $\frac{1}{6}$ mm. diam.; ascis jam elapsis; sporidiis copiosis, oblongis, hyalinis, 1-septatis, ad septum distincte constrictis, utrinque rotunde vel obtuse acuminatis, 7-12 \approx 2,5-3,5.

Hab. in Stereo rugoso vetusto prope Jacksonville Florida Amer. bor. (W. W. CALKINS).

52. **Nectria parvispora** Winter in Hedwigia 1886, pag. 33. — Peri- 3893
 theciis gregariis seu dense sparsis, superficialibus, subiculo tenuissimo, longe lateque effuso, aureo-fulvo insidentibus, e basi globosa in ostiolum conoideum attenuatis, haud collabascantibus, aureis, demum obscurioribus, fulvescentibus, glabris, membranaceo-subcarnosis, 230-240 μ . altis, 200 μ . crassis; ascis cylindraceis, deorsum stipitiformiter attenuatis, 8-sporis; sporidiis monostichis, oblongo-subcylindraceis vel subclavatis, utrinque rotundatis, medio uniseptatis, non vel raro constrictis, cellula inferiori parum angustiori, hyalinis, levibus, 8,5-9,5 \approx 2,5-3.

Hab. in hymenio Sterei subpileati, St. Thomè Africae occ.

53. **Nectria? Puiggarii** Speg. F. Puigg. n. 288. — Subiculo submem- 3894
 branaceo-gossypinulo, candido, ex hyphis 2,5-3 μ . cr. formato; peritheciis subiculo immersis, fusco-coccineis, densiuscule gregariis, e globoso ovoideis, 120-150 μ . diam.; ostiolo non vel vix papillulato, fuscescente, contextu parenchymatico, aurantio-fulvello; ascis cylindraceo-fusoideis, 8-sporis, basi breviter attenuato-pedicellatis, 65-80 \approx 8, aparaphysatis; sporidiis oblique 1-2-stichis, ellipsoideis, 1-septatis, hyalinis, 10-16 \approx 5-6.

Hab. ad clavulas vivas Xylariæ hippoglossæ Speg. in caudicibus putrescentibus pr. Apiahy Brasiliæ. — Species notis per plurimis *N. episphæriæ* accedens, sed subiculi præsentia præcipue recedens et tandem ad genus *Hypomycetem* vergens!

54. **Nectria oropensis** Ces. in Rabh. Herb. mycol. n. 524. — Sacc. Syll. II, p. 511. — Subiculum araneosum, albidum, tenuissimum, primo crustam lichenosam induens; perithecia subiculo insidentia, mollia, rosea seu carneola, ovato-conica, puberula, papilla paullisper obscuriori prædita, vix $\frac{1}{2}$ mm. diam.; asci tunica tenuissima donati, subclavato-cylindracei, 40 μ . longi, octospori; sporidia (in statu imperfecto) ovalia, hyalina, continua (semper?).

IV. *Lepidonectria* Sacc.

55. **Nectria Sambuci** Ell. et Ev. Proc. Phil. 1890, p. 246. — Peri- 3895

theciis in quoque stromate 4-12, ovoideo-globosis, pruinosis, pallide rubris, circ. $\frac{1}{3}$ mm. diam., siccis valde collapsis, ostiolo papilliformi, fimbriato; ascis clavato-oblongis, p. sp. 50-60 \approx 6-7, apaphysatis; sporidiis distichis, oblongis, 1-septatis, rectis v. subincurvis, 12-30 \approx 3,5-4,5, hyalinis.

Hab. in Sambuco canadensi, Lincoln, Nebraska Amer. bor. — Socia adest *Tubercularia Sambuci* Corda, conidiis 6-8 \approx 1,5, sporophoris 35-40 μ . long., supra ramosis suffultis.

56. **Nectria sulphurata** Ell. et Ev. Proc. Phil. 1890, p. 248. — Peritheciis gregariis, minutis, 200 μ . diam., subglobosis, basi subcontractis, indumento sulphureo, granuloso-pruinoso obtectis, demum denudatis et nigris, siccis collapsis et plus minus distincte radiato-sulcatis; ascis subcylindratis, 65-70 \approx 6-7; sporidiis subdistichis, allantoidis, hyalinis, utrinque 1-guttulatis, subcurvis, 9-12 \approx 2. 3896

Hab. in ligno emortuo Populi tremuloidis, Sand Coulee, Montana Amer. bor. (F. M. ANDERSON). — A *N. aurea* differt sporidiis minoribus.

57. **Nectria Harioti** Karst. in Rev. Mycol. 1890 Oct. — Peritheciis in acervulos aggregatis, subsphæroideis vel mutua pressione difformibus, vertice nonnumquam depressis, crassiusculis, flavidis v. incarnato-flavidis, squamulis albidis dense obductis, ostiolo obsoleto v. punctiformi, circ. 0,2 mm. diam.; ascis cylindratis-clavatis, 56-68 \approx 8-9; sporidiis octonis, distichis, oblongato-ellipsoideis, 1-septatis, ad septum non v. vix constrictis, 12-16 \approx 1,5-5,5. 3897

Hab. ad cortices, Neo-granata Amer. austr. (LINDIG). — A *N. Ralfsii*, cui proxime accedit, peritheciis pallidioribus, siccis non collapsis, loculis sporidiorum non guttatis, differt.

58. **Nectria Vandæ** Wahrl. Orchideenwurzelpilze p. 11, f. 20, 23, 24. — Peritheciis solitariis v. 3-5- raro pluri-gregariis, stromate bene evoluto rubro-brunneo insidentibus, piriformibus, rubris, valide furfuraceis; contextu crassiusculo, prope ostiolum albo; ascis 8-sporis; sporidiis oblique monostichis, ellipsoideis, 8-10 \approx 4,4, 1-septatis, medio subconstrictis, hyalinis. 3898

Hab. in radicibus Vandæ suavis cultæ, Moskau Rossia. — Adsunt conidia cylindrata, utrinque rotundata, 20-30 \approx 3,3-4,4, sporophoris longis inserta in capitulum congesta.

59. **Nectria Goroshankiniana** Wahrl. Orchideenwurzelpilze pag. 11, f. 17, 22, 25. — Peritheciis solitariis v. 3-5- raro pluri-gregariis, stromate bene evoluto, rubro-brunneo insidentibus, ovoideis, apice subacutis, sature rubris, squamulosis, contextu tenui, saturate ru- 3899

bro; ascis 8-sporis; sporidiis oblique monostichis, lanceolato-elongatis, 1-septatis, medio leviter constrictis, dilute brunneolis, 12-15 \approx 4-5.

Hab. in radicibus *Vandæ tricoloris* cultæ, Moskau Rossiaë. — Adsunt conidia forma et magnitudine eorum *N. Vandæ*, sporophororum cæspitosorum apice inserta.

60. **Nectria perforata** (E. et Holw.) Sacc., *Dialonectria* E. et Holw. 3900
 Journ. Myc. 1888, p. 57. — Peritheciis gregariis et subconfluentibus, $\frac{1}{6}$ - $\frac{1}{5}$ mm. diam., rugulosis et pruinoso-furfuraceis, primo pallidis, dein aurantiacis, depresso-globosis; ostiolo papillato, sicco collabescente velut si late pertuso; ascis clavato-cylindræis, 75 \approx 7-8, aparaphysatis; sporidiis oblique monostichis, ellipsoideis v. subovoideis, 1-septatis, levibus hyalinis vel dilutissime roseolis, 8-12 \approx 5-6.

Hab. in Pleuroto putrido Amer. bor. — *N. vulpinæ* valde affinis, ab ea vix distincta.

V. *Lasionectria* Sacc.

61. **Nectria Eucalypti** Cooke et Harkn. in Grevillea XII, pag. 82. — 3901
 Sparsa, superficialis, ochracea; peritheciis globosis, demum subdepressis, 0,2 mm. diam., primum pilis papillosis, sparsis hyalinis obstitis, mox denudatis; ascis clavatis, octosporis; sporidiis lanceolatis, uniseptatis, nec constrictis, hyalinis, 16-18 \approx 4.

Hab. in cortice ramorum *Eucalypti* in California (HARKNESS).

62. **Nectria Mercurialis** Boud. in Rev. Myc. 1885, p. 226, tab. LVI, 3902
 fig. 2. — Peritheciis sparsis, 200-250 μ . latis, ochraceis v. ochraceo-aurantiacis, erumpentibus aut liberis, ovatis vel ovato-conicis, supra parce et minute pilosellis, pilis concoloribus, brevibus, ad basim crassioribus, septatis, 60-70 \approx 5-7; paraphysibus tenuibus, septatis, intus granulosis, ascos superantibus; ascis cylindrico-fusiformibus, clavatis, octosporis, 70-80 \approx 10; sporidiis oblongo-fusoides, rectis aut subcurvatis, quadrinucleatis, ad medium septatis, non aut vix constrictis, 16-18 \approx 4-5.

Hab. ad caules exsiccatos *Mercurialis* perennis in umbris, Montmorency Galliaë.

63. **Nectria conigena** Peck in Torr. Bot. Club. — Minuta, membra- 3903
 nacea, levis, aurantio-lutea, siccitate collapsa; peritheciis basi setis radiantibus, parvis præditis, ostiolo papilliformi, minuto; ascis circ. 50 \approx 7; sporidiis monostichis vel sursum subdistichis, acute ellipsoideis, binucleatis, demum 1-septatis (?), 7-8 \approx 3-3,5.

Hab. in fructibus (conis) delapsis Magnoliæ glaucæ, Newfield Amer. bor. — Differt a *N. vulpina* peritheciis minoribus pallidioribusque et sporidiis acutioribus nec non matrice.

64. **Nectria Dorcas** (B. et Br.) Cooke in Grev. XII, p. 82, *Peziza* 3904
Dorcas B. et Br. Ceylon Fungi 944. — Superficialis, sparsa, globosa, demum collapsa et cupuliformis; peritheciis extus cervino-tomentosis, ostiolo fusco; sporidiis biseriatis, subellipticis, medio constrictis, uniseptatis, hyalinis, $12 \approx 4,5$.

Hab. in Monocotyledoneis plantis in insula Ceylon.

65. **Nectria puberula** Speg. F. Puigg. n. 285. — Peritheciis globoso- 3905
cupulatis, 120-150 μ . diam., superficialibus, 15-50-constipato-gregariis, carneo-aurantiis, albo-puberulis; ascis clavulatis, deorsum cuneatis atque brevi pedicellatis, 8-sporis, $55-60 \approx 8-10$, aparamphysatis; sporidiis cylindraneo-fusoideis, 1-septatis, non v. vix constrictis, hyalinis, $16-24 \approx 4$.

Hab. ad culmos dejectos putrescentes Bambusaceæ cujusdam in uliginosis pr. Apiahy Brasilæ. — Species nobiliuscula, *N. hirtellæ* accedens, satis tamen ab ea distincta.

66. **Nectria aureola** Winter in Hedwigia 1885, p. 261. — Peritheciis 3906
gregariis, brevissime globoso-conoideis, undique, præcipue autem in parte superiore pilis brevibus, rigidis, simplicibus, hyalinis, apice rotundatis obsitis, pallide aureolis, diaphanis; ascis oblongo-fusiformibus, stipite brevissimo crassoque præditis, 8-sporis, $47-53 \approx 7$; sporidiis fusoideis, utrinque parum attenuatis, anguste rotundatis, medio uniseptatis, non constrictis, hyalinis, $14 \approx 2,5$.

Hab. in mycelio Meliolæ Niessleanæ parasitans in Salisburgia.

67. **Nectria poliosa** E. et E. in Journ. of Myc. 1886, pag. 39. — 3907
Peritheciis sparsis, membranaceis, aurantio-rubris, globoso-ovatis, $\frac{1}{6}$ mm. diam., setis rectis, hyalinis, radiantibus, septatis, glandularibus, circiter diametrum perithecii longitudine æquantibus, ostiolo papilliformi excepto tectis; ascis sessilibus oblongo-cylindraceutis, circiter $75 \approx 12$; sporidiis distichis, oblongis vel oblongo-subfusoideis, subinæquilateralibus, hyalinis, uniseptatis, septo leniter constrictis, irregulariter nucleatis, $18-22 \approx 7-8$, utrinque rotundatis v. subacutis.

Hab. in stromatibus Diatrypes platystomæ, Florida Amer. bor. — Setæ primo sunt 7 μ . latæ, apice obtusæ incrassatæque, demum verum sursum elongantur et attenuantur.

68. **Nectria rubefaciens** E. et E. Journ. Myc. 1887, p. 116. — Pe- 3908

ritheciis sparsis, superficialibus, globosis, 80 μ . diam., levibus vel ob pilos sparsos, vix evolutos, glanduliformes asperatis, subastomis, initio pallidis, dein aurantiacis, contextu minute parenchymatico; ascis late clavatis, 35-40 \times 10-12, aparaphysatis; sporidiis irregulariter confertis, oblongo-cylindratis, hyalinis, 1-septatis, ad septum constrictis, distincte incurvis, 14-18 \times 2,5-3.

Hab. in thallo Lichenum (Parmeliæ tiliacæ) in ligno dejecto, Newfield, New Jersey Amer. bor.

69. **Nectria lichenophila** Speg. F. Puigg. n. 286. — Peritheciis spar- 3909
sis, superficialibus, globosis, 200-250 μ . diam., non collabascensibus, carneo-melleis, laxe albo-puberulis, ostiolo vix papillulatis, contextu minutissime parenchymatico; ascis cylindratis-clavulatis, deorsum attenuato-pedicellatis, p. sp. 40-45 \times 15, pedic. 10-20 \times 4-8, 4-sporis, aparaphysatis; sporidiis recte distichis, elliptico-fusoideis, utrinque acutis, didymis, hyalinis, subconstrictis, 22-25 \times 7-8.

Hab. in laciniis thalli Physciæ cujusdam in silvis pr. Apiahy Brasilæ. — Species vix peritheciis pilosulis atque ascis tetrasporis a *N. lichenicola* (Ces.) Sacc. recedens.

70. **Nectria diplocarpa** Ell. et Ev. Proc. Phil. 1890, p. 244. — Pe- 3910
ritheciis gregariis vel 2-3-connatis, superficialibus, ovoideis, circ. 250 μ . diam., pilis albis, septatis, parce ramosis, substrigosis vestitis, supra plus minus distincte collabascensibus, saturate incarnatis, ostiolo papilliformi, magno, levi; ascis clavatis, mox evanescentibus, 40-50 \times 8-12; sporidiis quaternis, irregulariter dispositis, oblongo-ellipsoideis, hyalinis, 1-septatis, ad septum constrictis, utrinque obtusis, aliis 8-12 \times 4-5, aliis 30-45 \times 18-25; paraphysibus vix distinctis.

Hab. in thallo Lichenis foliacei (Parmeliæ?) truncicolo Farmington, New York Amer. bor. (EDGAR BROWN). — *N. lecanodi* et *N. erythrinellæ* affinis.

71. **Nectria heterospora** Speg. F. Puigg. n. 283. — Peritheciis sub- 3911
sparsis, globosis, 300 μ . diam., collabascensibus, carneis, laxe albo-villosulis; ascis primo cylindratis v. subclavulatis, 35-45 \times 10-14, mox saccato- vel toruloso-diformibus ac diffluentibus, sæpius 8-sporis; sporidiis ellipticis, didymis, uno in quoqueasco maximo et verruculoso, ceteris minutis, levibus, hyalinis, 10-12 \times 5-6.

Hab. in thallo Stictinæ et Physciæ cujusdam vulgata, in silvis prope Apiahy Brasilæ. — Huc ducenda *N. lecanodis* Wint. (nec Ces.) in Rabh. Fung. europ. u. 3252 edita. An *N. lecanodis* Ces., cum qua notis externis eximie congruit, tantum varietas?

SPHÆROSTILBE Tul. — Syll. II, p. 511.

1. **Sphærostilbe microspora** Cooke et Mass. Grev. XVI, p. 4. — Pe- 3912
 ritheciis ascigeris in fungi conidiophori basi v. consortio, minutis, sparsis, ovatis, aurantiacis, levibus; ascis clavatis, stipitatis, 8-sporis; sporidiis distichis, ellipticis, 1-septatis, hyalinis, nec constrictis, $6 \approx 2-3$; conidiophoris stilboideis, erectis, pallidis, stipite levi, sursum subattenuato, crassiusculo; capitulo globoso, concolori, potius primitus carneo, conidiis ellipticis, continuis, hyalinis, $10 \approx 6$.

Hab. in cortice Melbourne Australiæ (F. CAMPBELL).

2. **Sphærostilbe tetraspora** Pat. Bull. Soc. Myc. 1888, p. 115, t. XX, 3913
 f. 1. — Peritheciis minutissimis in series lineares secus epidermidis rimas dispositis, siccis flavo-rufis, udis purpureo-brunneolis, levibus, globosis, dein collapsis, cupuliformibus, apice ostiolatis; ascis brevibus, $50-55 \approx 8$, primo lanceolatis, dein cylindratis, aparaphysatis; sporidiis quaternis, ovoideo-rotundatis, 1-septatis, medio lenissime constrictis, intus granulosis, $11-12 \approx 5-6$, hyalinis.

Hab. in ligno, Atures Venezuelæ. — Adsunt perithecia conidiophora, globoso-clavata, pallide purpurea, stipite 1-1,5 mm. alt., basi glabro rufo-nigro, apice rubello suffulta, conidiis hyalinis, ovoideis, numerosis, $4 \approx 2-3$, basidiis ramosis, linearibus, hyalinis, insertis.

METANECTRIA Sacc. Syll. II, p. 517.

1. **Metanectria? sigmatospora** Speg. F. Puigg. n. 292. — Perithe- 3914
 ciis gregariis, innato-superficialibus, globosis, albo-roseis, glabris, $300-450 \mu$. diam.; ascis subcylindratis, sursum non v. vix subattenuatis, apice rotundatis crassiusculeque tunicatis, basi brevissime crasseque pedicellatis, jodo immutatis, 32-sporis, $130-150 \approx 15-20$, muco immersis, aparaphysatis; sporidiis polystichis, fusoideo-sigmoideis, 1-septatis, hyalinis, $50-60 \approx 3-4$, utrinque setula rigida, $15-16 \approx 1$ præditis.

Hab. ad lacinias vivas *Phyciæ* sp. cujusdam in silvis prope Apiahy Brasilæ.

HYPOCREA Fr. — Sacc. Syll. II, p. 520.I. *Eu-Hypocrea* Sacc.

1. **Hypocrea subrufa** Berk. et Cooke in Grev. XII, p. 79. — Gre- 3915
 garia vel sparsa, superficialis, hemisphærico-depressa, subdiscoidea,

rufa 1-2 mm. diam., ostiolis minimis, obscurioribus; ascis cylindraceis; sporidiorum articulis subæqualibus, globosis, hyalinis, 3 μ . diam.

Hab. in ramis, Neilgherries in India.

2. **Hypocrea splendens** Phillips et Plowr. in Grevillea. XII, p. 79. 3916

— Subglobosa, quandoque expansa, lutea v. rubro-aurantia, senescens brunnea, hemisphærica, quandoque convexa, 3-6 mm. diam.; peritheciis in parte superiore stromatis nidulantibus, minutis, atris; ascis cylindricis, octosporis, 80-90 \approx 5-6; sporidiis hyalinis in duas partes globosas divisas, nucleatis, 4 $\frac{1}{2}$ -5 μ . diam.

Hab. in ramis Lauri, Leicestershire Britanniaë (HOWE).

3. **Hypocrea strobilina** Phill. et Plowr. in Grevillea XIII, p. 79. 3917

— Stromate discoideo, albido, subtili, 1-4 mm. lat.; peritheciis flavolis; ascis cylindraceis, octosporis; sporidiis in duas partes subglobosas, hyalinas, 5-6 \approx 5-5,5 secedentibus.

Hab. in conis Abietis pectinataë Hereford et Belmont Britanniaë.

4. **Hypocrea umbrina** Cooke in Grevillea XII, pag. 78, *Hypocrea* 3918

gelatinosa var. *umbrina* Cesati, Sacc. Syll. II, pag. 524. — Convexa, sublobata, 1-2 cm. lata, umbrina, leniter rugulosa, ostiolis punctiformibus, obscurioribus ornata; ascis cylindraceis; sporidiis in cellulas 16, globosas, hyalinas, 4 μ . diam., dissilientibus.

Hab. in ligno putri in insula Ceylon (CESATI).

5. **Hypocrea rugulosa** Berk. et Cooke in Grev. XII, p. 79. — Gre- 3919

garia, superficialis, pulvinata vel hemisphærica, rotundata, sicca rugulosa, carnosula, fusco-nigrescens, 1-2 mm. diam.; stromatibus laxè adhærentibus, nudis, intus fuscis; ostiolis vix prominulis; ascis cylindraceis, circa 0,8 mm. long.; sporidiorum articulis æqualibus, quadrato-globosis, fuligineis, 4-4,2 μ . diam.

Hab. in ligno putri, Neilgherries in India. — Var. **major** Cooke: stromatibus minus rugulosis, 3-4 mm. diam., articulis sporidiorum majoribus, 5 μ . diam. In cortice arborum ibidem.

6. **Hypocrea dacrymycella** Cooke et Plowr. in Grev. XII, p. 100, 3920

Hypocrea viscidula Phill. et Plowr. in Grevillea XIII, p. 79. — Stromate primum globoso, superne plano, postea discoideo, dein cupulato, 5-10 mm. crass., margine subtili, revoluto, primum luteo, viscido, nitente, cornosulo, albido, demum luteo, disco peritheciis obscure viridibus punctulato; ascis cylindraceis, octosporis, 130-150 \approx 10-11; sporidiis olivaceo-viridibus, in duas partes globosas, nucleatas, 6-8 μ . diam. secedentibus.

Hab. in ligno atque cortice Pini silvestris vel Abietis, Brandon Britanniaë.

7. **Hypocrea insignis** B. et C. — Sacc. Syll. II, p. 534, Cooke in Grevillea XII, p. 78. — Sporidiorum articuli subglobosi, hyalini, 3,5 μ . diam.
8. **Hypocrea sulphurea** Schw. — Sacc. Syll. II, pag. 535, Cooke in Grevillea XII, pag. 78. — Sporidiorum articuli globosi, hyalini, 5 μ . diam.
9. **Hypocrea Stereorum** Schw. — Sacc. Syll. II, p. 536, Cooke in Grev. XII, p. 78. — Sporidiorum articuli subglobosi, hyalini.
10. **Hypocrea peltata** Jungh. — Sacc. Syll. II, p. 536, Cooke in Grev. XII, p. 78. — Articuli sporidiorum globosi, hyalini.
11. **Hypocrea epimyces** Sacc. et Pat. Tab. An. Fung. fasc. IV, p. 175, 3921 fig. 387, *Hypocrea vinosa* Pat. in Rev. Myc. 1881, fasc. 12, p. 11 (non Cooke Grevillea VIII, p. 65). — Stromate carnosio, primum rotundato dein turbinato vel attenuato, in stipitem brevem 1-2 mm. long. attenuato, in discum circularem vel elongatum, 4-8 mm. diam. dilatato, plano aut centro depresso, primum rubro dein subnigro; peritheciis numerosis, nigris, ostiolis leniter prominulis; ascis elongatis, cylindraceutis, octosporis, paraphysibus sursum clavatis obvallatis, 50 \approx 2; sporidiis ovoideis, uniseptatis, in duas partes globosas, nucleatas, hyalinas facile dissilientibus, 6 \approx 3.

Hab. in Polyporo nigricante, Poligny, Jura Galliaë.

12. **Hypocrea colliculosa** Fr. in Herb. Berk., Cooke in Grevillea XII, 3922 p. 79. — Pallida, effusa, planiuscula, tomentosa, 12-25 mm. lata; peritheciis convexis, magnis, 1 mm. diam.; ostiolis papillatis, atris; ascis cylindraceutis; sporidiorum articulis subglobosis, 5 μ . diam., hyalinis.

Hab. in Polyporo in Suecia (E. FRIES).

13. **Hypocrea papyracea** Ell. et Holw. in Journ. of Myc. 1886, p. 66. 3923 — Stromate membranaceo, subtili, separabili, 2-3 cm. crasso, margine ex albo lutescente, substerili; peritheciis superficialibus, obscuris, minutis, 150 μ . diam., crebre in stromate sparsis; ascis gracilibus, circiter 75 \approx 3, p. spor. 60 μ . longis, aparaphysatis; sporidiis fusoides, hyalinis, 1-septatis, 8-10 \approx 2,5-3, facile in duas partes ad septum dissilientibus.

Hab. in parte inferiore trunci vetusti, Decorah Jowa Amer. bor. (HOLWAY).

14. **Hypocrea corticola** Ell. et Ev. in Journ. of Myc. 1885, p. 140. 3924 — Stromate subtili, albo, margine subtiliter fimbriato, floccis con-

tinuis, 13 cm. vel amplius longis formato, demum sordide albo, in areas minutas (ut *Corticium polygonium*) diffracto; peritheciis globosis, pallidis, 75 μ . diam., stromate immersis; ascis clavato-cylindræis, 20-22 \approx 3 $\frac{1}{3}$, sessilibus; sporidiis partim distichis, octonis, ovoideis, uniseptatis, facile in articulos globosos, 1 μ . diam., dissilientibus, hyalinis.

Hab. in ligno ramorum emortuorum Magnoliæ glaucæ in Amer. bor. — Adsunt in stromate basidia clavato-cylindrica, sporas subglobosas, 3 μ . diam. gerentia. Verisimiliter stroma est *Corticium*, fungillus vero a genere *Hypomyces* fructificatione abhorret.

15. **Hypocrea Cesatiana** Cooke in Grevillea XII, pag. 79, *Hypocrea* 3925
multiformis Cesati. — Applanata, rubro-fusca, subelliptica vel irregularis; margine flavido; ostiolis vix distinctis; ascis cylindræis; sporidiis in cellulas globosas hyalinas. 5 μ . diam. dissilientibus.

Hab. in ligno, Sarawak (CESATI).

16. **Hypocrea consimilis** Ell. North Amer. Fungi n. 158 et Cooke 3926
Grev. XII, p. 79. — Stromate erumpente, rufo, suborbiculari, prominulo, applanato; peritheciis minutis stromate immersis, inconspicue papillulatis, poro minuto pertusis, contextu parenchymatico, rufulo; ascis cylindricis, aparaphysatis, sæpe basi coalitis, 60-70 \approx 5-6, 8-sporis; sporidiis oblongo-ellipsoideis, continuis (plasmate bipartito?), hyalinis, 6-7 \approx 3.

Hab. in ramis Azaleæ viscosæ in Amer. bor. — Affinis *H. Richardsoni*.

17. **Hypocrea argillacea** Phill. et Plowr. in Grevillea XIII, p. 79. — 3927
Pulvinata, cretaceo-colorata, subtilis, 1-3 mm. diam.; peritheciis latis, obscurioribus, prominulis, pallide brunneis; ostiolis minutis, prominulis; ascis cylindræis, octosporis, 60-70 \approx 8; sporidiis in 16 secedentibus, subglobosis, hyalinis, sæpe longioribus quam latis, 4-5 \approx 4.

Hab. in lignis putrescentibus, Dersingham Britannicæ.

18. **Hypocrea Placentula** Grov. New Not. Fung. p. 5, n. 41, t. 256, 3928
f. 5. — Stromatibus sparsis, tenuibus, discoideis, suborbicularibus, applanatis, a matrice facillime separandis, albis, primo obtutu polyporoideis, margine byssaceo dein nudo, 1-3 mm. latis; peritheciis stipatis, minutis, hyalino-pallidis (melleis), rotundatis, fere totis immersis; ostiolis impressis, punctiformibus; ascis cylindricis, 80-90 \approx 3-4; sporidiorum monostichorum articulis globosis, hyalinis, 2 $\frac{1}{2}$ -3 μ . diam.

Hab. ad basim culmorum Junci effusi apud Olton Reser-

voir Britanniae. — Adest simul status conidicus stromatibus minus limitatis, candidissimis; hyphis teneris, repentibus, intricatis; conidiis sporidiorum articulis similibus, conglobatis, pulveraceo-adsersis.

19. **Hypocrea moriformis** Cooke et Mass. Grevill. XVII, p. 3. — Car- 3920
nosa, hemisphaerica, 1 mm. diam., sparsa, pallida, demum nigra; peritheciis convexis, minutis, subprominulis, moriformi-gregariis, poro pertusis; ascis cylindraceutis; sporidiis 1-septatis, dein in articulos 2, globoso-cuboideos secedentibus, olivaceis, levibus, 5-6 μ .

Hab. in ligno fracido, Carlisle (Dr. CARLYLE).

20. **Hypocrea flavo-virens** Berk. in Herb., Cooke in Grevillea XII, 3930
p. 100. — Pulvinata, orbicularis, demum centro depressa, 1-3 mm., flavo-virescens, ostioli punctiformibus, atro-viridibus; ascis cylindraceutis; sporidiorum articulis subglobosis, truncatis, olivaceis.

Hab. in corticibus, Neilgherries in India.

21. **Hypocrea pezizaeformis** Speg. F. Guar. II, n. 92. — Stromatibus 3931
sparsis v. hinc inde laxe gregariis, orbicularibus, lenticulari-turbinatulis, inferne centro papillato-adfixis, superne applanatis v. vix undulatis, tenuiusculis, 3 mm. diam., 0,5-0,6 mm. cr., margine integris, obtusiuscule rotundatis, intus extusque ceraceo-candidis, in disco ex ostioli subprominulis densiuscule minuteque fusco-papillulatis, glabris, levibus, contextu carnosulo, imperspicuo, hyalino; peritheciis globosis, 90-100 μ . diam., melleis, stromate immersis, vix ostiolo papillato-prominulis, tenui-membranaceis; ascis cylindraceutis, apice subtruncato-rotundatis, postice breviter crasseque pedicellatis, 90 \approx 5, octosporis, aparaphysatis; sporidiis recte monostichis, bilocularibus, loculis e globoso ellipticis, 5 \approx 4, utrinque rotundatis, grosse 2-guttulatis, hyalinis.

Hab. ad ramos dejectos putrescentes in silvis uliginosis, inter Calle-poi et Yaguaron Brasiliae. — Ab *Hyp. pezizoidi* longissime abhorrens.

22. **Hypocrea virescenti-flava** Speg. F. Puigg. n. 293. — Stromati- 3932
bus sparsis v. 2-3-gregariis, pusillis, pezizoideis, 1-1,5 mm. diam., sessilibus, citrino-flavis, disco minute denseque punctulatis; peritheciis globosis, 200-250 μ . diam., densiuscule gregariis, subsuccineo-aurantiis, ostiolo non v. vix papillato-exserto, immersis; ascis cylindraceutis, apice subtruncato-rotundatis, deorsum breviter attenuato-pedicellatis, 8-sporis, 100-110 \approx 6-7, aparaphysatis; sporidiis didymis, loculis e cuboideo globosis, olivaceis, 6 \approx 6.

Hab. ad culmos dejectos putrescentes Bambusaceae cujusdam

in uliginosis pr. Apiahy Brasiliæ. — Ab *H. subcitrina* vix sporidiis minoribus fuscescentibusque differt, atque ab *H. citrinella* sporidiorum colore atque fabrica recedit.

23. **Hypocrea Puiggarii** Speg. F. Puigg. n. 294. — Stromatibus spar- 3933
sis vel gregariis, ex hemisphærico lenticularibus, extus coccineis, intus albis, 1-5 mm. diam., levibus, in sicco subrugulosis; peritheciis immersis, minutis, globulosis, 100-150 μ . diam. vel e mutua pressione difformibus, densissime constipatis; ascis cylindræis, supra truncato-rotundatis, deorsum breviter attenuato-pedicellatis, 8-sporis, 70-80 \approx 4,5-5, aparaphysatis; sporidiis recte 1-stichis, didymis, loculis e globoso cuboideis, 1-guttulatis, 4 \approx 4, hyalinis.

Hab. ad ramos dejectos putrescentes in silvis pr. Apiahy Brasiliæ. — *H. hematoplacæ* certe peraffinis, sed peritheciis non prominulis præcipue recedens.

24. **Hypocrea flavo-marginata** Pat. Bull. Soc. Myc. 1888, p. 116. — 3934
Stromate carnosio, suborbiculari, confluyente, 5-11 mm. diam., 4-5 mm. cr., juniore ostiolis punctulato, brunneo-ochraceo, margine citrino, intus albo; peritheciis parte superiore immersis, globosis, ostiolo parum prominulo; ascis cylindræis, 16-sporis, 60-80 \approx 5, aparaphysatis; sporidiis hyalinis, ovoideis, subrotundis, 1-guttatis, 5 \approx 4.

Hab. in trunco adusto Curatellæ americanæ, Puerto Zamuro Venezuelæ. — *H. citrinæ* et *H. subcitrinæ* affinis.

25. **Hypocrea cornea** Pat. Journ. Bot. 1890, p. 64, f. 6. — Stromate 3935
orbiculari, disciformi centro depressulo, ad marginem deflexum undulato, brunneo-nigricante, 1 cm. lat., sub lente vix punctato, tenui, stipite centrali, lato et curto, 5 mm. long., concolori prædito, intus albo-fuligineo; peritheciis minutis, non prominentibus, ovoideis, confertis, contextu brunneo; ascis 16-sporis; sporidiis fuligineis, irregulariter cuboideis, 3 \approx 2,5.

Hab. in truncis putridis in silva montis Bavi, Tonkin Asiæ orient. — *H. peltatæ* affinis.

26. **Hypocrea bicolor** Ell. et Ev. Journ. Myc. 1888, p. 58. — Stro- 3936
matibus gregariis vel confertis, convexis, suborbicularibus, fusco-cinereis, dein atris, 2-4 mm. diam., plerumque rugulosis, centro affixis; peritheciis periphericis, globosis, circ. $\frac{1}{3}$ mm. diam., stromate immersis; ascis cylindræis, 70 \approx 5; sporidiis monostichis, v. supra confertis, ellipsoideis, continuis, fumoso-brunneis, circ. 5 \approx 2,5.

Hab. in trunco dejecto Ulmi fulvæ, Manhattan Kansas Amer. bor. (KELLERMAN et SWINGLE).

27. **Hypocrea cubispora** E. et Holw. in Journ. of Myc. 1885, p. 4. 3937
 — Stromate tuberculiformi, obconico, subplicato, circ. $1 \approx \frac{3}{4}$ cm., luteo-citrino, superficie ostiolis nigris punctulato; peritheciis periphericis, globosis; ascis cylindraceutis, 8-sporis; sporidiis subcuboideis, olivaceo-brunneis vel brunneo-nigris, binucleatis, $4-6 \approx 3-4$, nonnullis obscure uniseptatis.

Hab. in truncis annosis, Jowa Amer. bor.

28. **Hypocrea Galeottiana** (Kickx) Sacc. *Hypoxyton* Kickx Champ. 3938
 Mexiq. p. 8, t. II, f. 2. — Stromate carnosio, orbiculari, applanato, sessili, 17 mm. lat., 4-5 mm. cr., margine convexo, extus nigro-fusco, intus badio; peritheciis in disco periphericis, ovatis nigris; ostiolis minutis, vix prominulis; sporidiis oblongis, subcurvulis, acutiusculis; ascis et paraphysibus non visis.

Hab. in truncis quercinis et Leguminosarum prope Hacienda del Mirador Mexico Amer. centr. (GALEOTTI). — Ex auctore affinis *H. Schweinitzii* et *H. rigenti*, hinc non *Hypoxyton*.

II. *Homalocrea* Sacc.

29. **Hypocrea subcarnea** E. et E. Journ. Myc. 1887, p. 114. — Stro- 3939
 mate effuso, tenui, rimoso, sordide carneo; peritheciis carnosis, pallidis, minutis, 80 μ . diam., stromate immersis et sub lente minute punctulato-prominulis; ascis subcylindraceutis, sessilibus, $30-35 \approx 5-7$, paraphysatis; sporidiis monostichis vel partim supra distichis, subhyalinis, vix flaveolis, oblongo-ellipsoideis, 1-2-guttatis, $3,5-4,5 \approx 2-2,5$.

Hab. in ramis emortuis *Lonicerae*, Newfield, New Jersey Amer. bor. — Stroma *Corticis scutellari* valde similis. Habitus *H. corticicolæ* et *H. Hypomycellæ*.

30. **Hypocrea pallida** Ell. et Ev. in Journ. of Myc. 1886, pag. 65. — 3940
 Peritheciis ochraceo-brunneis, subglobosis, 250 μ . diam., mycelio (stromate) parco, albo, tomentoso laxo hymenii superficiem ac perithecia obtegente immersis; ascis cylindraceutis, $65-75 \approx 4-4\frac{1}{2}$, octo-sporis; sporidiis oblongo-ellipsoideis, bicellularibus, hyalinis, articulis subcuboideis vel vix globosis, 3 μ . diam., facile secedentibus.

Hab. parasitice in *Polyporo cæσιο* et chioneo putri, Newfield et in insula Prince Edwards Amer. bor. — Ab *H. polyporoidea* sporidiis minoribus et crusta stromatica nulla differt. Forma in *P. chioneo* est magis aurantiaca.

31. **Hypocrea ochroleuca** B. et Rav. — Sacc. Syll. II, p. 534, Cooke in Grev. XII, p. 78. — Sporidiorum articuli, 6 μ . diam. hyalini,

32. **Hypocrea armeniaca** B. et C. — Sacc. Syll. II, pag. 534, Cooke in Grevillea XII, p. 78. — Sporidiorum articuli globosi, hyalini, 4 μ . diam.
33. **Hypocrea polyporoidea** B. et C. — Sacc. Syll. II, p. 534, Cooke in Grevillea XII, pag. 78. — Sporidiorum articuli globosi, hyalini, 4 μ . diam.
34. **Hypocrea melaleuca** Ell. et Ev. Proc. Phil. 1890, p. 245. — Su- 3941
biculo membranaceo, tenui, albo, strato simplici (margine excepto) e peritheciis minutis, 112-130 μ ., ardosiacis; ascis non visis; sporidiis? (vel forte stylosporidis) globosis, 2,5-3 μ . diam.

Hab. in ramis *Quercus*, Newfield, New Jersey Amer. bor.

III. *Podocrea* Sacc.

35. **Hypocrea digitata** Ell. et Ev. in Journ. of Myc. 1885, p. 42. — 3942
Stromate luteolo, digitato, radiante, in lobos copiosos, 2 mm. diam., semicylindraces, digitiformes, 5 cm. longos abeunte; peritheciis numerosis, immersis, globosis, minutis, nucleo albo farctis, nigris; ostioliis minutis, leniter prominulis, atris; ascis cylindraces, 80-90 μ . longis; sporidiis monostichis vel imbricatis, oblongis vel late ellipticis, hyalinis, 1-septatis, granulosis, leniter curvulis, 20-26 \approx 6-8.

Hab. in ramulis emortuis, Withe mountains in America boreali (S. MINNS). — Sporidia potius *Hypocreopsisidis*.

36. **Hypocrea Solmsii** E. Fisch. in Ann. Buitenz. 1887, pag. 129, 3943
t. 17-18. — Stromatibus irregulariter clavatis, sæpe breviter ramoso-lobatis, deorsum in stipitem brevem attenuatis solitariis vel gregariis, peritheciolorum ostioliis punctulatis; peritheciis immersis, densiuscule approximatis, globosis v. ellipsoideis; collo brevi, contextu rigido; ascis cylindraces, gracilibus, 125-130 \approx 5-6; sporidiis recte monostichis, 16-nis, 7-8 \approx 5-6, vel potius octonis, medio constrictis, ideoque 14-16 \approx 5-6, episporio asperato, hyalinis.

Hab. parasitica in *Dictyophora*, in insula Java — Stromata alcohole immersa colorem flavido-brunneum edunt.

IV. *Battarrina* Sacc. Sporidia octona, globosa v. ovoidea continua.

37. **Hypocrea Fendleri** Berk. et Curt. in Herb. Cooke in Grev. XII, 3944
pag. 80. — Subeffusa, plana, demum atro-fusca, margine obtuso, contextu albo; peritheciis immersis, subglobosis; ascis cylindraces, octosporis; sporidiis ellipticis, hyalinis, 5-6 μ . longis.

Hab. in corticibus, Venezuela.

38. **Hypocrea neilgherrensis** Berk. et Curt. — Cooke in Grev. XII, 3945

p. 79. — Tenuis, effusa, 1 cm. lata, convexo-applanata, ochraceo-flavida, centro fusca margine pallidiore, sterili; ostioliis papillatis, fuscis; ascis breviter cylindraceutis, 50 μ . longis, octosporis; sporidiis ovalibus vel subglobosis, continuis, hyalinis, 5-6 μ . longis.

Hab. in corticibus, Neilgherries in India.

39. **Hypocrea amazonica** Cooke Grev. XVI, p. 25. — Stromate irregu- 3946
lari, suborbiculari, plano-convexo, margine obtuso, libero, atro-fuligineo; peritheciis astomis v. pertusis; ascis cylindraceutis, 8-sporis; sporidiis lanceolatis, continuis, hyalinis, 25-30 \times 3-4; conidiophoris consociatis, subgloboso-depressis, ochraceis, carnosis, demum corneis, pulvere pallidiore tectis; conidiis ellipticis, continuis, hyalinis, utrinque hyalino-apiculatis, 18 \times 3.

Hab. in foliis emortuis, Para Brasiliæ (SPRUCE).

40. **Hypocrea tuberculata** Pat. Journ. Bot. 1890, pag. 64, fig. 7. — 3947
Stromate epiphylo, nigro, sessili, tuberculiformi, angulato, verrucoso, striato, duro et corneo, primo integro, dein in fragmenta plura e centro secedente, intus albo; peritheciis ad stromatis peripheriam dispositis, non prominulis, ovoideis, numerosis; ascis clavatis, stipitatis, 8-sporis, 70 \times 12; sporidiis ovoideo-elongatis, non septatis, hyalinis, 18-20 \times 4-5.

Hab. ad folia viventia Bambusæ, Fu-Phap Tonkin Asiæ orientalis.

HYPOCREOPSIS Karst. Fenn. II, 251, non Wint. *Dozya* Karst. l. c. p. 28. et 221. (Etym. ab *Hypocrea*, cui affinis). — Stroma tuberoso-carnosum, effusum, lobatum, superficiale. Asci octospori. Sporidia ellipsoidea, 1-septata, hyalina, loculis non secedentibus.

1. **Hypocreopsis riccioidea** (Bolt.) Karst. Myc. Fenn. II, 221-251, 3948
Sphæria riccioidea Bolt. Fungi Halif. IV, 70, *Acrospermum lichenoides* Tode Mehl. I, p. 9, *Hypocrea parmelioides* Mont. Syll. 210. — Stromatibus subgregariis, effusis, orbicularibus, stellatim alte lobatis, substrato adhærentibus, planiusculis, testaceo-cervinis v. demum rufis (aurantiacis sec. Berk.) intus pallidis, 3-9 cm. latit.; peritheciis sphæroideis, minimis in stromate sepultis, latentibus, parietibus destitutis (?), papilla atra, nucleo pallido et cereo; ascis cylindraceutis, 130-160 \times 10, octosporis; sporidiis monostichis, ellipsoideis, utrinque obtusissimis, rectis, levibus, uniseptatis, 16-22 \times 8-10.

Hab. in Lapponia rossica, supra corticem truncorum Betulæ

(KARSTEN), in Salicibus, Halifax Britanniaë (BOLTON), Glamis (STEVENSON), ad truncos Limoges Galliaë (LAMY).

2. **Hypocreopsis Carteri** (B. et Curt.) Sacc., *Hypocrea Carteri* Berk. 3949 et Curt. in Herb., Cooke in Grevillea XII, pag. 29. — Effusa, indeterminata, $\frac{1}{4}$ -1 diam. ochracea, undulata, margine tenui; ostioli punctiformibus, fuscis; peritheciis subglobosis, immersis; ascis subcylindræis; sporidiis ellipticis, uniseptatis, hyalinis, $15 \approx 5$.

Hab. in corticibus, Bombay Africaë (H. Z. CARTER).

3. **Hypocreopsis undulata** (B. et C.) Sacc. *Hypocrea undulata* Berk. 3950 et Cooke in Grev. XII, p. 79. — Effusa, pallide ochracea, subtenuis, undulata, margine pallidiore tomentoso; ostioli papillatis, numerosis, fusco-atris; ascis cylindræis; sporidiis ellipticis, diu continuis, demum uniseptatis, utrinque rotundatis, hyalinis, $17 \approx 5$.

Hab. in ligno putri, Neilgherries in India.

4. **Hypocreopsis solida** (Schw.) Berl. et Vogl. Add. Syll. p. 211, *Hypocrea solida* (Schwein.) Cooke in Grevillea XIII, pag. 8, *Hypoxylon solidum* (Schw.) Berk. — Sacc. Syll. I, pag. 358. — Ascis clavati octospori, sporidia disticha, lanceolata, uniseptata, medio constricta hyalina, pallide fusca, $35 \approx 6-7$.

5. **Hypocreopsis tuberculariformis** (Rehm) Sacc. Cfr. Syll. II, p. 523 3951 f. **caulincola** Rehm Ascom. Exs. et Ill. n. 579. — Peritheciis aurantiacis, contextu parenchymatico; ascis tenuissimis, ellipsoideis, 8-sporis, $45 \approx 6$; paraphysibus?; sporidiis distichis, elongato-ellipsoideis, obtusis, rectis, 2-ocularibus, loculis subinde inæqualibus, medio interdum subconstrictis, hyalinis, $8-10 \approx 3$.

Hab. in caulibus putridis Cirsii spinosissimi in Tirolia cisalpina. — Ad *Nectriam* accedens.

Sect. 4. Phæodidymæ.

NEOSKOFITZIA Schulz. in Œsterr. bot. Zeitschr. 1880, p. 250 (Etym. a cl. botanico Doct. A. SKOFITZ). — Perithecia gregaria, superficialia, globosa, dilute colorata, tenuia rigidula (haud collabentia), vix pertusa. Ascis cylindræis, 8-spori, paraphysati. Sporidia didyma fuscescentia mox vel tandem in articulos binos secedentia. — Ultimâ notâ a gen. *Letendrea* præcipue dignoscitur; ab *Hypocrea* peritheciis discretis.

1. **Neoskofitzia pallida** Schulz. loc. cit. p. 252. — Peritheciis exacte 3952 globosis, 0,14-0,15 mm. diam., tenuissime perforatis, glabris, levibus, pallidissime ochraceis; ascis cylindræis, $57 \approx 10$; sporidiis

oblique monostichis, medio profunde constrictis, mox decedentibus, 7-8 \approx 4; paraphysibus filiformibus, crassiuscule coalescentibus.

Hab. ad folia arida Zeæ Maydis pr. Vinkovce Hungariæ.

2. **Neoskofitzia verruculosa** Schulz. loc. cit. pag. 251. — Peritheciis 3953
subconfertis, undique clausis, glabris minutissime verruculosis, demum fragilibus, dilute fuscescenti-griseis, 0,9-2 mm. diam.; ascis anguste linearibus 90 \approx 4; sporidiis monostichis e cellulis duabus subglobosis, jam in asco discretis compositis, 3,5-5 μ . long.; paraphysibus discretis filiformibus, tenuibus et crassiusculis intermixtis.

Hab. ad ramenta quercina pr. Vinkovce Hungariæ.

Sect. 5. Phragmosporæ.

CALONECTRIA De Not. — Sacc. Syll. II, p. 540.

1. **Calonectria melioloides** Speg. Fungi Guar. Pug. I, n. 246. — Epi- 3954
phylla, mycelio orbiculariter expanso, 2-5 mm. diam., tenui, arachnoideo-velutino, sordide albescente vel albo, ambitu effuso evanescente, ex hyphis gracilibus, 3-4 μ . crass. hyalinis, repentibus, dense ramoso-intricatis, matrice arcte adnatis efformato, centro hyphis piliformibus, erectis, subcrassiusculis, 300-400 \approx 7-8, concoloribus, dense septatis, apice obtusis ornato; peritheciis centro laxe aggregatis, siccis contracto-rugulosis, udis globuloso-depressis, 200-250 μ . diam. subsuccineis, levibus, glabris v. hyphis paucis, repentibus v. brevissime erectis donatis, tenui-membranaceis, contextu indistincto, ex hyalino fulvello; ascis obclavatis, sursum longe attenuatis, apice rotundatis, crasse tunicatis, deorsum subcoarctatis, brevissime noduloseque stipitatis, 105-120 \approx 14-15, aparaphysatis, octosporis; sporidiis in ascorum parte infera oblique distichis, fusoideo-clavulatis, utrinque obtusiusculis, 30-35 \approx 7, 5-septatis ad septa non constrictis.

Hab. ad folia viva Myrtaceæ cujusdam in silvis prope Guarapî Brasiliæ.

2. **Calonectria? guaranítica** Speg. Fungi Guar. Pug. I, n. 247. — 3955
Acervulis epiphyllis, superficialibus, minutis 0,5-1 mm. diam., suborbicularibus v. ellipticis, modice pulvinatis, basi coarctatulis, sparsis, in folio irregulariter longitudinaliterque subseriatis sordide fusco-vel rubescenti-atris, glabris, ruguloso-scrupulosis; peritheciis globulosis, in acervulorum stromate immersis, plus minusve prominulis, globulosis, 300-350 μ . d., non v. vix papillato- v. mammil-

lato-ostiolatis, membranaceo-carnosulis, mollibus, roseo- v. carneo-succineis, contextu fusco-fuligineo v. fulvescente; ascis cylindraceutis, utrinque leniter attenuatis, antice rotundatis basi breviter stipitatis, 80-85 \approx 12-14; paraphysibus filiformibus, tenuibus laxè obvallatis, octosporis; sporidiis recte distichis, elliptico-elongatis, inæquilateralibus vel allantoideis, utrinque obtuse rotundatis, 25-28 \approx 6-6,5, 3-septatis, ad septa non constrictis, loculis guttulatis, hyalinis.

Hab. ad folia viva *Bambusaceæ* cujusdam in uliginosis silvæ Naranjo Brasiliæ. — Species prædistincta a *Nectriaceis* nonnihil recedens et generi *Calonectriæ* per dubie adscripta. An melius *Broomella*?

3. **Calonectria leucorrhodina** (Mont.) Speg. — Sacc. Syll. II, p. 548, 3956
var. **minor** Speg. Fungi Guar. Pug. I, n. 246. — Peritheciis laxissime aggregatis, siccis cupulato-collapsis, udis globoso-lenticularibus, 50-70 μ . d., vix papillulato-ostiolatis, dilute aurantiacis v. roseis, glabris, levibus v. vix pruinulosis, tenuissime membranaceis, contextu densissime carnosulo-indistincto, subhyalino, hyphothallo furfuraceo v. arachnoideo in *Meliolarum* subiculo parasitice insidentibus; ascis fusoido-subclavatis, antice obtuse rotundatis, postice breve crasseque stipitatis, 40 \approx 7, aparaphysatis, octosporis; sporidiis oblique distichis, subfusoidis, 11-12 \approx 3, vel cylindraceuto-clavulatis, utrinque obtusiusculis, medio 1-septatis, leniter constrictis, primo 6-guttulatis, dein tenuiter 5-7-septatis, non constrictis.

Hab. ad folia viva *Aurantiaceæ* cujusdam prope Guarapi Brasiliæ.

4. **Calonectria guarapiensis** Speg. Fungi Guaranitici Pug. I, n. 244. 3957
— Peritheciis hypophyllis densiuscule aggregatis, globulosis, 80-100 μ . d. succineis, pilis brevissimis, simplicibus, 20-30 \approx 2, hyalinis laxissime ornatis, ostiolo vix prominulo, subfuscidulo, subfimbriato donatis, contextu dense subindistincteque parenchymatico-sinuoso, fulvello, in hyphothallo arachnoideo-furfurello, radiatim expanso, 2-6 mm. diam., matrici arcte adnato, peripherice candido, centro fulvescente insidentibus; ascis fusoido-cylindraceutis, antice truncato-rotundatis, postice breviter attenuato-stipitatis, 35-42 \approx 5-7, aparaphysatis, octosporis; sporidiis distichis, fusoidis vel cylindraceuto-fusoidis, rectis v. sæpius inæquilateralibus, utrinque obtusatis, 8-10 \approx 2-2,5, medio 1-septatis non constrictis, hyalinis; loculis primo 2-guttulatis, dein 1-septatis non constrictis.

Hab. ad folia viva v. languida *Sapindaceæ* speciei cujusdam

in silvis pr. Guarapî Brasiliæ. — Cum peritheciis ascophoris adsunt perithecia spermogonica.

5. **Calonectria inconspicua** Winter in Rev. Myc. 1885. — Mycelio 3958
tenuissimo, maculas minutissimas, oculo nudo non visibiles, albidas, granulatas formante, ex hyphis repentibus, ramosis, septatis, hyalinis, dense intricatis constante; peritheciis superficialibus, aggregatis, e globoso brevissime conicis, pallide roseis, poro pertusis, vertice pilis brevibus rigidis, non septatis, simplicibus, hyalinis, apice truncatis emarginatisque dense obsitis, deorsum hyphis longioribus, repentibus, flexuosis, laxe vestitis; ascis lanceolatis vel elongato-oblongis, sursum valde, deorsum parum attenuatis, sessilibus, 8-sporis, $32-37 \approx 7$; sporidiis oblongo-bacillaribus, utrinque rotundatis, 4-cellularibus, 4-guttulatis, hyalinis, $10-11 \approx 2,5-3$.

Hab. ad folia viva plantæ ignotæ in Meliola parasitans in Paraguay Amer.

6. **Calonectria Balanseana** Berl. in Roum. Rev. myc. 1888, t. 47, f. II. 3959
— Peritheciis hinc inde gregariis, subiculo myceliali, filamentis dense intricatis et centro cellulis rotundis formato, crustaceo, matrice vix adnato, albescenti-roseo, effuso insidentibus, globosis, sursum cupulato-collapsis, carnosulo-coriacellis, roseis, basi filamentis parcis, hyalinis, repentibus cinctis, pruinulosis, $250-350 \mu$. diam.; contextu laxo parenchymatico, roseo; ascis clavatis, subsessilibus, paraphysibus filiformibus cinctis, $100-110 \approx 14-16$, octosporis; sporidiis distichis, basi oblique monostichis, ovoideo-oblongis utrinque acutiusculis, transverse distincte 3-pseudo-septatis, $27 \approx 9$, hyalinis, in juventute guttuligeris.

Hab. in pagina superiore foliorum Bambusæ sp. cujusdam Tonkin Sinarum Asiæ orientalis.

7. **Calonectria erysiphoides** Berl. in Roum. Rev. myc. 1888, t. 47, 3960
f. 1. — Peritheciis superficialibus, roseo-flavescentibus, primo astomis, dein circulariter ruptis et demum patelliformibus, $200-250 \mu$. diam., filamentis copiosis, pallidis, longitudine variis usque $200 \approx 4-5$, continuis vel obsolete septatis, parte inferiore obsessis; ascis clavato-cylindratis, sursum rotundatis, subsessilibus, paraphysibus filiformibus cinctis, $70-80 \approx 12-16$, octosporis, fusoido-clavulatis, vix curvulis vel pro maxima parte rectis, hyalinis, demum pallidissime roseis, $30-32 \approx 8-9$.

Hab. parasitice in subiculo Meliolæ amphitrichæ in foliis adhuc vivis Citri Bigarradiæ, Tonkin Sinarum.

8. **Calonectria lichenigena** Speg. F. Puigg. n. 297. — Peritheciis cæ. 3961

spitulosis, 2-8-gregariis, globulosis, 180-220 μ . diam., in sicco subcollabascentibus, stromate tubercularieo tectis v. junctis, erumpentibus, carneo-aurantiis, glabris; contextu grosse parenchymatico, subhyalino; ascis cylindraceutis vel subfusoides, apice subtruncato-rotundatis, basi breviter attenuato-pedicellatis, 2-4-6-8-sporis, 80-120 \approx 15-20, paraphysatis; sporidiis oblique monostichis vel recte distichis, ellipsoideis, 28 \approx 8-12, 3-septatis, ad septa non constrictis, hyalinis dein subchlorinis.

Hab. in thallo lichenino quodam ad cortices languidos Apiahy Brasilæ.

9. **Calonectria diminuta** (Cooke) Berl. et Vogl. Add. Syll. pag. 213, *Dialonectria diminuta* Cooke in Grev. XII, p. 83, *Nectria diploa* var. *diminuta* B. et C. N. Am. Fungi n. 818, *Nectria diminuta* Sacc. Syll. II, pag. 498. — Sporidia demum triseptata, hyalina, 25-30 \approx 8.
10. **Calonectria otagensis** (Linds.) Sacc., *Nectria Otagensis* Linds. 3962 Lich. and. Fungi Otago p. 428, t. XXX, f. 53-60. — Peritheciis dense cæspitosis, pallide armeniacis; ostiolo paullo saturatiore, papillato dein sæpe collabescente; ascis.....; sporidiis distichis fusoides, rectis, curvulis vel subsigmoideis, utrinque obtusiusculis, 1- dein 3-septatis medio subconstrictis, plerumque guttulatis, hyalinis, 15-19 \approx 3,7-6.
- Hab.* in ramis putrescentibus Sophoræ tetrapteræ, Otago in Nova Zelandia.
11. **Calonectria Dearnessii** Ell. et Ev. Proc. Phil. 1890, p. 245. — 3963 Peritheciis 3-12 in quoque cæspitulo, ovoideis supra et subtus angustatis, dilute aurantiacis, circ. $\frac{1}{6}$ mm. diam. et paullo ultra alt., mycelio albo, radiato-fibroso, sericeo, demum evanescente insidentibus et partim vestitis, ostiolis late papilliformibus, distincte prominulis, demum subcollabentibus; ascis 75-80 \approx 10-12, paraphysatis; sporidiis distichis, oblongo-cylindraceutis, obtusis, flavido-hyalinis, 3-5-septatis, ad septa plus minus constrictis, 25-35 \approx 6-7, utrinque obtusis, subincurvis.
- Hab.* in ramis dejectis, London Canada Amer. bor. (J. DEARNESS).
12. **Calonectria canadensis** (Ell. et Ev.) Berl. et Vogl. Add. Syll. 3964 p. 212, *Nectria canadensis* Ell. et Ev. in Torr. bot. Club. 1884, p. 74. — Peritheciis cæspitosis, ovatis, 330 μ . diam., circiter 500 μ . altis, dense tuberculoso-granulosis, rufulis; ostiolis latis, obtusis, non prominentibus, distincte stellato-rimosis, siccis vix collapsis; ascis evanidis, 75-80 \approx 10-12 p. sp.; sporidiis irregulariter

stipatis, hyalinis, oblongis, triseptatis, leniter curvulis, utrinque obtusis, 18-21 \approx 7-9.

Hab. in corticibus Ulmi, Ottawa, Canada Amer. bor. — Status conidicus: **Tubercularia canadensis** Ell. et Ev.; sporodochiis 0,5-2 mm. altis, aurantiacis, rufo-stipitellatis; conidiis oblongis, 5-7 \approx 1,5. Cum statu ascophoro ibidem.

13. **Calonectria fulvida** (E. et E.) Berl. et Vogl. Add. Syll. p. 212, 3965
Nectria fulvida E. et E. in Journ. of Myc. 1885, p. 140. — Peritheciis superficialibus, gregariis, subglobosis, minutis, $\frac{1}{6}$ mm. diam., tuberculoso-squamulosis, luteolis, siccitate sursum collapsis, ostiolis latis sed non prominulis; ascis oblongo-cylindraceutis, subsessilibus, obtusis, circiter 75 \approx 10-12; paraphysibus indistinctis obvallatis; sporidiis octonis, fusiformibus, hyalinis v. subhyalinis, leniter curvulis, 38-50 \approx 3-3,5, biconoideis, nucleatis, demum circiter 8-septatis.

Hab. in corticibus ramulorum putrescentium Quercus, Newfield Amer. borealis.

14. **Calonectria balsamea** (C. et P.) Sacc., *Nectria* Cooke et Peck in 3966
Grevillea XII, p. 81, Sacc. Syll. II, p. 511. — Erumpens, cæspitosa, suborbicularis; peritheciis parvulis, levibus, coccineis, papillatis, demum collapsis, in stroma pallidum congestis; ascis cylindraceuto-clavatis, octosporis; sporidiis fusiformibus, quinqueseptatis, hyalinis, 30 \approx 7,7.

Hab. in cortice Abietis balsameæ in Amer. bor.

STILBONECTRIA Karst. Hedw. 1889, p. 184 (Etym. *Stilbum* et *Nectria*). — Perithecia globulosa, mollia, læticoloria, in consortio v. in basi fungilli conidiophori (*Stilbi*) oriunda. Sporidia oblongata, 3-septata, hyalina. — A *Calonectria* recedit ut *Sphærostilbe* a *Nectria* nec non *Megalonectria* a *Pleonectria*.

1. **Stilbonectria lateritia** Karst. l. c. — Peritheciis in *Stilbi* basi 3967
 congestis, sphæroideis vel obovoideis, interdum cupulato-collapsis, lateritio-rubris, demum nigrescentibus, glabris, circ. 0,3 mm. lat.; sporidiis fusioideo-oblongatis v. elongatis, rectis v. leniter curvulis, 3-septatis, vulgo 4-guttulatis, ad septa non v. vix constrictis, hyalinis v. subhyalinis, 22-30 \approx 5.

Hab. ad corticem arborum frondosarum in Minas Lafayette Brasiliæ. — Fungi conidiophori (*Stilbum lateritium* Berk.? Syll. IV, pag. 571) solitarii v. cæspitosi, stipitibus subsimplicibus, deorsum incrassatis, ex hyphis excedentibus, solito curvatis, obtusis

pruinosis, aurantio-lateritiis v. subcoccineis, sursum flavescentibus, capitulo sphæroideo v. subhemisphærico, pallido v. flavescente, 1-2 mm. alt.; conidiis oblongatis v. ellipsoideis, vix v. non guttulatis, hyalinis, 5-10 \approx 3-4; sporophoris 45-60 \approx 1-1,5.

PARANECTRIA Sacc. Syll. II, p. 552.

1. **Paranectria parasitica** Winter Ex. Pilze in Flora 1884, p. 7. — 3968
Peritheciis superficialibus, gregariis, globosis, astomis (ut videtur), minutissimis, 120-140 μ . diam., albis, pilis sublongis, hyalinis, sæpe crispatis, undique (parte superiore excepta) obsitis; ascis oblongis, in stipitem brevem attenuatis, 8-sporis, 44-52 \approx 12-14; sporidiis inordinatis, oblongis, utrinque attenuatis acuminatisque, seta hyalina sporidium subæquante præditis, inæquilateralibus sæpeque curvatis, triseptatis, hyalinis, 16-17,5 \approx 5-6.

Hab. in foliis et ramulis junioribus *Osyridis compressæ* in Promontorio Bonæ Spei Afr. austr.

2. **Paranectria cæspitosa** Speg. F. Puigg. n. 298. — Peritheciis superficialibus, cæspitosis, aurantiis, dense strigoseque albo-gossypinis, globoso-ovoideis, minutis, 300-350 μ . diam.; ascis cylindraceis, 8-sporis, 130-150 \approx 20, dense paraphysatis; sporidiis elliptico-fusoideis, inferne appendice curva v. abrupte angulosa, 5-10 \approx 2-3 auctis, 3-septatis, 40 \approx 9-10, hyalinis.

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

3. **Paranectria? albo-lanata** Speg. Fungi Guar. Pug. I, n. 248. — 3970
Acervulis amphigenis, lineari-ellipticis, minutis, 0,5-1,5 mm. long., modice pulvinatis, basi non coarctatis, dilutissime e carneo-ferrugineis v. subrubiginosis, sæpius macula pallescente v. fuscescente, plus minusve effusa, indeterminata insidentibus, granuloso-papillulosis, superne villo densiusculo, candido, e pilis erectis, rectis vel undulatis, longiusculis, tenuibus, 200-450 \approx 2,5, hyalinis, parce septatis, simplicibus composito vestitis; peritheciis in acervulorum ambitu constipatis, monostichis, prominulis, villo absconditis, globulosis, 150-200 μ . diam., glabris, levibus, ostiolo vix manifesto, impresso pertusis, subhyalinis v. pallescenti-ceraceis, tenui-membranceis, contextu delicatissimo, parum distincto, hyalino; ascis cylindraceis v. cylindraceo-subclavulatis, antice obtuse rotundatis crasseque tunicatis, luce refracta 1-foveolatis, postice leniter attenuatis basique in pedicellum brevissimum, crassiusculum abrupte productis, 75-80 \approx 18-20, aparaphysatis, octosporis; sporidiis obli-

que distichis, ellipticis vel fusoido-ellipticis, 28-32 \approx 10-12, tri-septatis, ad septa leniter constrictis, utrinque appendice cylindracea, apice sæpius rotundato-incrassatulo (an loculis extimis?), recta, 5-7 \approx 1,5-2 ornatis, rectis v. leniter inæquilateralibus, hyalinis.

Hab. ad folia viva *Bambusaceæ* cujusdam in silvis uliginosis pr. Perybebuy Brasiliæ. — Species mox dignoscenda, pulchella, a genere nonnihil recedens sporidiis non sigmoideis.

GIBBERELLA Sacc. Syll. II, p. 552.

1. **Gibberella atro-rufa** Passer. Diagn. Fung. nuovi, III, n. 43. — Peritheciis laxè vel acervatim gregariis, atro-rufis, globosis, minute papillatis, demum cupuliformi-collapsis, contextu sordide cœruleo-violascente; ascis clavatis, 62 \approx 12,5, 8-sporis; sporidiis subdistichis, ovatis, 3-septatis, hyalinis, 15-17,5 \approx 7,5. 3971

Hab. in ramulo fracido *Fici Caricæ*, Parma Ital. bor. — Stylosporæ didymæ, fuliginæ, 15-20 \approx 10.

2. **Gibberella Malvacearum** Trab. in Roum. F. Gall, n. 4061. — Peritheciis parvis, numerosis, subrotundis, luce discreta nigris, contextu laxiusculo contra lucem cœrulescente; ascis oblongis, 8-sporis; sporidiis distichis, oblongo-fusiformibus, 3-4-septatis, ad septa constrictis, inæqualibus, 16-20 \approx 4-5, hyalinis. 3972

Hab. in caulibus putridis *Lavateræ creticæ*, Mustapha pr. Alger. Afr. bor. (D. L. TRABUT).

BROOMELLA Sacc. Syll. II, p. 557.

1. **Broomella Munckii** Speg. Fungi Guar. Pug. I, n. 249. — Maculis nullis v. epiphyllis, parum manifestis, minutis, 1-2 mm. diam., cinerescenti-arescentibus, subdeterminatis, areola plus minusve effusa, obscuriore cinctis; stromatibus hypophyllis, superficialibus, densiuscule sparsis, orbicularibus, minutis, 0,5-2 mm. diam., pulvinato-applanatis v. lenticularibus, margine obtuse rotundatis, basi non vel vix coarctatulis, matrici arcte adnatis, minutissime furfuraceo-squarrulosis, laxissime papillulosis, obsolete nigro-punctatis, extus intusque cinerescentibus vel fuscescenti-griseis; peritheciis stromate immersis, globoso-obovatis, 120-200 μ . diam., dense stipatis, tenuissime membranaceis, fuscidulis, vix a stromate distinctis contextu indistincto, albo-farctis, ostiolo mammillato, nigricante, subcarbonaceo, in stromatis superficie prominulo, non vel leniter exserto donatis; ascis e basi perithecii fasciculatim exsurgentibus, cylindræis, 85-100 \approx 10, apice obtuse rotundatis, crasse tunicatis, 3973

luce refracta 1-foveolatis, basi plus minusve longe attenuato-pedicellatis; paraphysibus parcis, crassiuscule filiformibus obvallatis, octosporis; sporidiis hyalinis, rectis v. oblique monostichis, ellipticis, 13-18 \approx 5-6,5, utrinque obtuse rotundatis, 2-septatis, ad septa non v. vix constrictis, septis a centro remotis, loculis densiuscule guttulatis, medio ceteris duplo longiore sæpiusque tumidiore.

Hab. ad folia viva *Bignoniæ* speciei cujusdam in dumetis pr. Guarapí Brasilæ. — Species pulcherrima inter *Hypocreaceas* et *Dothideaceas* nutans.

2. **Broomella leptogicola** Cooke et Mass. in Grev. XIX, pag. 86. — 3974

Stromate orbiculari, convexo, pruinoso, carneis, siccis induratis, 0,5-1 mm. diam., ostiolo obsolete; ascis clavato-cylindræis; sporidiis fusoides, utrinque acutis, 5-septatis, hyalinis, 37-40 \approx 6.

Hab. parasitica in thallo *Leptogii* in Robinia, Kew Britannia.

BERKELELLA Sacc. Syll. II, p. 475 ut subgen. (Etym. ab ill. J. M. BERKELEY). — Perithecia *Hypomycetis*; sporidia fusoides vel oblonga 3-pluriseptata, subhyalina.

1. **Berkelella caledonica** (Pat.) Sacc., *Hypomyces caledonicus* Pat. 3975

Bull. Soc. Myc. 1887, p. 126, t. X, f. 6. — Peritheciis minutissimis, 60-100 μ . diam., punctiformibus, sparsis, globosis, ostiolo vix prominulo, mycelio læte flavo vel ochraceo nidulantibus, contextu parenchymatico, brunneo-nigro, tenui; ascis clavatis, octosporis, aparaphysatis; sporidiis fusoides, 12 \approx 2,5, rectis v. curvulis, hyalino-viridulis, transverse 4-septatis.

Hab. in hymenio *Sterei fasciati* in Nova Caledonia Oceania. — Ad hoc genus spectat quoque **Berk. stilbigera** (B. et Br.) Sacc. Cfr. Syll. II, p. 475.

BIVONELLA Sacc. Syll. II, p. 464 ut subg. (Etym. a cl. botanico A. BIVONA-BERNHARDI). — Perithecia *Melanosporæ*, sporidia vero pluriseptato-muriformia, colorata.

1. **Bivonella Lycopersici** Passer. Diagn. Fung. nuovi, I, n. 68. — Pe- 3976

ritheciis solitariis, sparsis vel parce gregariis, erumpentibus, carnoso-diaphanis, e globoso conicis, ostiolo acuto, fuscidulo, basi epidermide rupta arcte cinctis, deciduis; ascis numerosis, cylindricis, aparaphysatis, 8-sporis; sporidiis uniserialibus, ellipticis, septis 5 transversis cum longitudinali mediano, olivaceo-hyalinis, 15-20 \approx 7-10.

Hab. in caulibus vivis Solani Lycopersici, Parma Ital. bor.

2. **Bivonella chrysomella** (B. et Br.) Sacc., *Melanospora* B. et Br. — Sacc. Syll. II, p. 464.

Sect. 7. Dietyosporæ.

PLEONECTRIA Sacc. Syll. II, p. 559.

1. **Pleonectria guaranítica** Speg. Fungi Guar. Pug. I, n. 250. — 3977
 Acervulis majusculis, 3-15 mm. diam., crasse pulvinatis, 2-5 mm. sparsis v. confluentibus repando- v. gyroso-sinuosis, matrice immutata arcte adnato-superficialibus, densissime granulosis, udis carnosulis, siccis duris, extus sordide griseo-lateritiis, intus ligneo-fuscescentibus; peritheciis carnosulo-coriacellis, in pulvinula peripherica densissime constipatis, ad tertium superum vel ultra prominulis, globosis, 300-350 μ . d., glabris, levibus, ostiolo non mammillato, non v. vix acutatulo, sæpius fuscescente donatis, contextu subimperspicuo, densissimo, aurantio-fulvo; ascis cylindracois v. cylindraco-clavatis, apice truncato-rotundatis, deorsum longe attenuato-pedicellatis, p. sp. 40-55 \simeq 8-12, ped. 35-40 \simeq 2-3; paraphysibus crassiuscule filiformibus, guttulatis, parcissimis immixtis, octosporis; sporidiis globoso-ellipticis, utrinque obtusissime rotundatis, 8-11 \simeq 6-7, primo cribrose guttulatis, dein densissime sed obscure muraliter cellulosis, hyalinis.

Hab. ad cortices truncorum putrescentium in silvis uliginosis prope Guarapí Brasilæ.

2. **Pleonectria missouriensis** (E. et E.) Sacc. *Nectria missouriensis* 3978
 E. et E. Journ. Myc. 1888, p. 57. — Peritheciis 6-20-cæspitoso-gregariis, basi stromatica parva insidentibus, atro-rubris, globosis, $\frac{1}{4}$ - $\frac{1}{3}$ mm., furfuraceis, ostiolo egregio papilliformi; ascis 100-120 \simeq 15-20; paraphysibus copiosis, filiformibus, evanescentibus; sporidiis irregulariter confertis, oblongo-ellipsoideis, rectis v. leniter asymmetricis, flavido-hyalinis, muriformibus, 20-25 \simeq 10-12, utrinque subacutis.

Hab. in cortice Caryæ albæ emortuæ prope Concordia Montana Amer. bor. (Rev. C. H. DEMETRIO).

3. **Pleonectria fenestrata** (Berk. et Curt.) Berl. et Vogl. Add. Syll. 3979
 pag. 216, *Nectria fenestrata* Berk. et Curt. in Herb. et Cooke in Grev. XII, p. 81. — Cæspitosa, cinnabarina, erumpens; peritheciis globosis, levibus, glabris, vix papillatis, in stroma tuberculoideum

aggregatis; ascis clavatis, octosporis; sporidiis biserialibus, ellipticis, 5-septatis muriformibusque, hyalinis, $30 \approx 10$.

Hab. in corticibus, Canada et in insula Ceylon.

4. **Pleonectria vagans** Speg. F. Fueg. n. 276. — Cæspitulis vix pul- 3980
vinulato-erumpentibus, minutis, 1 mm. diam., 3-9-peritheciigeris, sparsis; peritheciis globoso-obovatis, 150-300 μ . diam., sordide rubris vel subtestaceis, sæpe pruinula stromatica tectis, membrana-
ceo-carnosulis, contextu plus minus distincte parenchymatico, ru-
bro-aurantio, ostiolo vix papillulato, fuscidulo donatis; ascis sub-
clavatis, antice truncatis crassiusculeque tunicatis, postice modice
attenuato-pedicellatis, p. sp. 90-100 \approx 18-20, ped. 20-30 \approx 5, octo-
sporis, aparaphysatis; sporidiis oblique distichis, elliptico-elongatis,
utrinque plus minus acutato-rotundatis, 28-35 \approx 10-12, horizonta-
liter 7-9-septatis, non constrictis (rarius vix ad medium), loculis
3-6 internis, septo altero verticali, continuo divisis, locellis non v.
grosse 1-guttulatis, sæpius leniter curvulis, hyalinis.

Hab. vulgata ad ramos dejectos Fagi betuloidis, F. ant-
arcticæ, Mayteni magellanicæ, Drymidis Winteri in
Staten island et in Fuegia Amer. austr.

5. **Pleonectria antarctica** Speg. F. Fueg. n. 275. — Cæspitulis ap- 3981
planatis v. hemisphæricis, majusculis, 2-3 mm. diam., 20-40-peri-
thecigeris, sparse erumpentibus; peritheciis globosis vel obovatis,
300-350 μ . diam., coccineis, glabris, levibus, carnosulis, contextu
dense parenchymatico, rubro, ostiolo minuto, acuto, vix papillula-
to, sæpius fuscescente instructis; ascis fusoides, sursum attenua-
tis, apice truncatis, crasse tunicatis, minute 1-foveolatis, deorsum
cuneatis ac in stipitem brevem crassumque productis, 80-100 \approx 15-
20, octosporis, aparaphysatis; sporidiis di-tri-stichis, ellipticis vel
ovoideis, utrinque obtusissimis, 20-27 \approx 8-10, rectis vel vix inæqui-
lateralibus, horizontaliter 7-(rarius 5-)septatis, ad septa non con-
strictis, loculis omnibus septis 2 verticalibus divisis, locellis cri-
brose guttulatis, hyalinis.

Hab. ad ramos Berberidis ilicifoliæ emortuos pr. Pacto-
lus cove in Staten island Fuegiæ Amer. austr.

6. **Pleonectria denigrata** Wint. Hedw. 1883, pag. 71. — Peritheciis 3982
cæspitulos densissimos, erumpenti-superficiales, pulvinato-subhemi-
sphæricos, usque 5 mm. diam. metientes formantibus, stromatis pul-
vinati, intus rufescenti-lutei superficie insidentibus, fere globosis,
extus griseis, eleganter nigro-papillatis, demum vertice depressis
et umbilicatis, nigrescentibus, 370-470 μ . diam.; ascis cylindræis

breviter pedicellatis, 8-sporis, circa $70 \approx 8-10$, in aqua demum usque 110μ . elegantis, paraphysibus longissimis, filiformibus obvallatis; sporidiis plerumque monostichis, rotundato-angulatis, valde difformibus transverse 3-5-septatis muriformibus, ad septa plus minus constrictis, pallidissime flavidulis, $10-16 \approx 7-9$.

Hab. in cortice *Gleditschiæ*, Kentucky Amer bor. (KELLERMANN).

7. **Pleonectria lutescens** (Arn.) Sacc., *Nectria* (*Pleonectria*) *lutescens* 3983
 Arnold Lich. exs. 963, Rehm in Hedwigia 1883, pag. 54. — Peritheciis in thalli superficie demum sessilibus, primitus subimmersis, solitariis vel gregariis, minutissimis, punctiformibus, siccis atris, v. atro-rubris, humidis rubris, subconicis, integris, parenchymatice rubro-fusco contextis, elapsis foveolam relinquentibus; ascis cylindraceis, teneris, 2-sporis, $90 \approx 10$; sporidiis oblongis, obtusis, rectis, primitus 4-cellularibus, quaque cellula nucleo 1 magno prædita, dein, cellulis transverse bipartitis, 8-cellularibus et magni-nucleatis, viridi-hyalinis, demum fuscidulis et scabris, $30-45 \approx 9-10$, 1-stichis; paraphysibus ramosis, articulatis.

Hab. in superficie thalli *Solorinæ saccatæ* parasitica, Kreuzberg prope Vilsek (Oberpfalz) Bavarix (ARNOLD).

PLEOGIBBERELLA Sacc. Add. Syll. pag. 217 (Etym. *pleon* et *Gibberella* quasi *Gibberella* dictyospora). — Characteres *Gibbelleræ* sed sporidia celluloso-muriformia.

1. **Pleogibberella calamia** (Cooke) Berl. et Vogl. Add. Syll. p. 217. 3984
Gibberella calamia Cooke in Grevillea XIII, p. 8. — Peritheciis gregariis, confertis, vertice obtuso, conico, demum subcollabentibus, opacis, violaceo-cæruleis; ascis clavatis, mox diffluentibus; sporidiis nunc ellipsoideis, nunc cylindraceis, medio constrictis, valde irregularibus, muriformi-cellulosis, hyalinis, $25-30 \approx 22$, vel $40-50 \approx 20-22$.

Hab. in fructibus *Calami fasciculati*, Vizagapatam in India.

MEGALONECTRIA Speg. — Syll. II, p. 560.

1. **Megalonectria cæspitosa** Speg. Puigg. n. 310. — Peritheciis cæspitulosis subhemisphæricis, centro stilbigeris, parvulos, 2-3 mm. diam., erumpenti-superficiales efformantibus, globosis, $300-350 \mu$. diam., dein collabentibus, sanguineis, glabris; ascis cylindraceo-clavulatis, basi brevissime crasseque stipitatis, 8-sporis, $90 \approx 20$, paraphysatis; sporidiis recte vel oblique distichis, cylindraceo-elli-

pticis, horizontaliter 9-septatis, septo altero verticali, continuo divisus, hyalinis, rectis vel subcurvulis, 30-40 \approx 10.

Hab. ad corticem putrescentem arborum in silvis pr. Apiahy Brasiliæ. — Stipites conidiiferi *Stilbum fusco-cinnabarinum* Speg. sistunt.

MATTIROLIA Berl. et Bres. Micr. Trid. p. 55 (Etym. ab eximio botanico prof. O. MATTIROLO taurinensi). — Stromata pulvinata, carnosula, subcutanea dein erumpentia, læte colorata (rosea v. rubra disco viridi olivascente). Perithecia membranacea, luteo-ochracea, stromate omnino immersa, ostiolo vix exserto. Asci cylindranei, 8-spori, obsolete paraphysati. Sporidia ovoidea, 3-5-septato-muriformia, olivacea. — A gen. *Thyronectria* sporidiis coloratis in primis dignoscitur.

1. **Mattirolia roseo-virens** Berl. et Bres. loc. cit., t. V, f. 3. — Asci 3986
110-120 \approx 15-18; sporidia 15-18 \approx 9-11.

Hab. in ramis corticatis Cytisi Laburni pr. Trento.

2. **Mattirolia chrysogramma** (Ell. et Ev.) Sacc. *Thyronectria chry-* 3987
sogramma Ell. et Ev. Proc. Phil. 1890, pag. 245. — Peritheciis cæspitosis, ovoideis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., corticis interioris superficie insidentibus, stromate evidente destitutis, 3-6 in greges compactos erumpentibus, indumento farinaceo, viridulo-flavo præditis, ostiolo prominulo dein tantum nudo et nigro; ascis clavato-cylindraneis, copiose paraphysatis, 150-175 \approx 14-18; sporidiis distichis, oblongo-ellipsoideis, plerumque subcurvulis, 7-10-septatis, septis longitudinalibus lenissime, interrupte percursis, primo hyalinis, dein atrobrunneis, 20-30 \approx 10-12.

Hab. in cortice Ulmi americanæ, Manhattan Kansas Amer. bor. (KELLERMAN et SWINGLE).

Sect. 6. Scolecosporæ.

GLOBULINA Speg. Fung. Puigg. n. 300 (Etym. *globulus*). — Perithecia minuta, superficialia, astoma, membranacea, læticoloria, subiculo mucedineo, radiante, phyllogeno insidentia. Asci cylindranei, octospori, aparaphysati. Sporidia filiformia, septulata, hyalina. — Genus habitu *Perisporiaceis* accedens, sed perithecorum natura, aptius *Hypocreaceis* adscribendum.

1. **Globulina erisyphoides** Speg. F. Puigg. n. 300. — Maculis nullis; 3988
peritheciis amphigenis, globosis, albis, astomis hinc inde 3-5-gre-

gariis, rarius solitariis, minutissimis, 100-150 μ . diam., subiculo fibroso-radiante, superficiali, ex hyphis 400-600 \times 2-3 formato, immersis vel vestitis; ascis cylindraceutis, apice rotundatis, deorsum cuneatis, breviter crasseque pedicellatis, 8-sporis, 80-90 \simeq 8-10, paraphysatis; sporidiis filiformibus, hyalinis, 15-20-septulatis, 75-80 \simeq 2, rectis vel flexuosis, non constrictis.

Hab. ad folia viva non coriacea Compositæ cujusdam herbaceæ in dumetis pr. Apiahy Brasiliæ.

TORRUBIELLA Boud. in Rev. Myc. 1885, p. 227, t. LVI, f. IV (Etym. a Rev. J. TORRUBIA). — Perithecia superficialia, sessilia, stromate byssino tenui, membranaceo, nullo modo clavato suffulta. Paraphyses conspicuæ, tenuissimæ, ad apicem incrassatæ. Asci lineares, octospori. Sporidia filiformia, obscure septata et granulosa. Entomogena.

1. **Torrubiella aranicida** Boud. in Rev. Myc. 1885, p. 227, tab. LVI, 3989
fig. IV. — Entomogena, in aranea quadam lucifuga enascens; peritheciis elongato-conicis, subflexuosis, 0,65-0,70 mm. altis, 0,30-0,35 mm. crassis, levibus ochraceis vel ochraceo-aurantiis, in stromate byssino, albido, tenui, numerosis sed sparsis aut cæspitosis; paraphysibus conspicuis, ascorum longitudine, gracillimis, apice clavula, 3 μ . crassa terminatis; ascis linearibus, longissimis, octosporis, 330-350 \simeq 5-6, apice rotundato, non tumescente; sporidiis filiformibus, tenuissimis, ascos longitudine æquantibus obscure septatis et granulosis, 300-400 \simeq 1/2-2.

Hab. ad araneam lucifugam sub trunco putrido mortuam, Montmorency Galliæ.

OPHIONECTRIA Sacc. Syll. II, p. 563.

1. **Ophionectria tropicalis** Speg. Fungi Guar. Pug. I, n. 251. — Peri- 3990
theeciis hypophyllis, sparsis, globosis, minutis, 100-180 μ . d., in sicco subsuccineis, ruguloso-contractis, udis globosis, ex hyalino opacis, subiculo parcissimo, vix manifesto, tenuissimo, arachnoideo-reticulato insidentibus, glabris, levibus, ostiolo minuto, vix impresso, tenuissime membranaceis, contextu parenchymatico, sinuosulo-anguloso, ex hyalino fulvescente; ascis fasciculatim e basi perithecorum exsurgentibus, cylindraceutis, non v. vix fusoides, apice late rotundatis, basi attenuatis, 75-80 \simeq 9-10, minute brevissimeque stipitatis, paraphysatis, octosporis; sporidiis acicularibus v. filiformibus, 50 \simeq 2,5, 5-10-septatis, utrinque obtusis, in asco longitudinalibus apice recte fasciculatis, basi tortis.

Hab. ad folia viva Blechni speciei cujusdam, sociâ *Uredineâ* depauperatâ, in silvis prope Mbatobî Brasiliæ.

2. **Ophionectria cylindrospora** (Sollm.) Berl. et Vogl. Add. Syll, p. 217, 3991

Nectria cylindrospora Sollm. Bot. Zeit. 1864, p. 265. — Cæspitulis subrotundis v. oblongis, cortice interiore insertis, ex 6-24 peritheciis constantibus, peritheciis subrotundis v. obovatis, obscure rubris, levibus, indistincte papillatis, tenui-membranaceis; ascis clavatis, octosporis; paraphysibus parvis, simplicibus, hyalinis obvallatis; sporidiis cylindricis, leniter curvis, utrinque rotundatis, 8-16-ocularibus, hyalinis, $40-50 \approx 2-2\frac{1}{2}$.

Hab. in ramulis siccis Pini silvestris prope Herbertsdorf in Germania.

3. **Ophionectria Briardi** Boud. in Rev. Myc. 1885, p. 226, tab. LVI, 3992

fig. 2. — Minuta, sparsa vel subgregaria, superficialis; peritheciis rotundatis aut siccitate turbinatis, $150-350 \mu$. latis, aureo-puberulis, ostiolo applanato, levi, nigrescente et parum conspicuo, pilis minutissimis, continuis, $20-40 \approx 5-6$; ascis cylindricis, octosporis, ad basim vix attenuatis, $90-100 \approx 10-13$; paraphysibus tenuibus, filiformibus obvallatis; sporidiis elongatis, ad apices attenuatis, intus granulatis, denique 7-11-septatis et loculis sæpe guttula unica repletis, $45-55 \approx 3-4$.

Hab. ad Eutypellam et lignum putridum in silva Carnele prope Montmorency Galliæ.

4. **Ophionectria? Puiggarii** Speg. F. Puigg. n. 299. — Peritheciis hy- 3993

pophyllis, superficialibus, sparsis, globosis, $250-300 \mu$. diam., sordide succineo-lateritiis, glabris, sæpe superne albo-pruinulosis, vix papillulato-ostiolatis, contextu grosse parenchymatico-celluloso, parum distincto, succineo vel fulvo, circa ostiolum fusciscente; ascis ellipticis, 8-sporis, $70 \approx 20$, aparaphysatis, mox diffluentibus; sporidiis cylindraceo-fusoideis, subcurvulis, 3-septatis, hyalinis, $60 \approx 6$, non constrictis.

Hab. ad folia dejecta putrescentia Laurineæ cujusdam in silvis pr. Apiahy Brasiliæ.

5. **Ophionectria episphæria** Karst. Hedw. 1889, p. 26. — Peritheciis 3994

gregariis vel confertis, superficialibus, breve cylindraceis vel subovoideis, apice truncatis leviterque depressis, nudis, sordide flaventi-pallidis, ostiolo papillato, obscuriore, subfuscescente, magnitudine *Nectriæ episphæriæ*; ascis fusoides, $75-80 \approx 10-12$; sporidiis conglobatis, bacillaribus, utrinque acutatis, rectis vel subflexuosis, obsolete pluriseptatis et guttulatis, hyalinis, $55-62 \approx 3-4$.

Hab. supra Diatrypen Stigma ad Mustiala Fenniæ.

6. **Ophionectria Everhartii** Ell. et Gall. Journ. Myc. 1890, p. 32. — 3994

Peritheciis gregariis ovoideo-globosis, circ. $\frac{1}{6}$ mm. diam., e fusco sordide flavis, granulato-pruinosis, ostiolo subacute papilliformi excepto; ascis oblongo-cylindræis, 75-80 \approx 12-14, subdistincte paraphysatis; sporidiis conferte distichis, fusoides, flavidulo-hyalinis, guttulis dein leniter multiseptatis, rectis, extra ascum curvis, utrinque sensim attenuatis, 35-50 \approx 3-3,5.

Hab. in Diatrype Stigmatæ vetusta et cortice quærneo dejecto, Newfield, New Jersey Amer. bor.

7. **Ophionectria coccicola** (Ell. et Ev.) Berl. et Vogl. Add. Syll. p. 218, 3996

Nectria coccicola E. et E. in Journ. et Myc. 1886, pag. 39. — Peritheciis cæspitosis, membranaceis, circiter $\frac{1}{3}$ mm. diam., $\frac{1}{2}$ mm. altis, flaveolis, maturitate sordide luteo-brunneis, obovatis, astomis rugosiusculis, setis parcis, albis, sparsis, minutis vestitis v. demum calvis; ascis clavato-cylindræis, 150-190 \approx 20, paraphysibus crassiusculis, copiosis obvallatis; sporidiis octonis, clavato-cylindræis, multinucleatis, hyalinis, 110-140 \approx 6-7, deorsum attenuatis.

Hab. in larvis Coccorum in cortice vivo Citri Aurantii, Florida Amer bor.

MICRONECTRIA Speg. Fungi Guar. Pug. I, n. 252 (Etym. *micro* parvus et *Nectria*). — Perithecia simplicia, epidermide tecta, contextu molli nectriaceo. Asci octospori; sporidia filiformia plus minusve manifeste septata. — Est *Ophionectria* peritheciis tectis, non superficialibus donata.

1. **Micronectria guaranítica** Speg. Fung. Guar. Pug. I, n. 252. — 3997

Maculis nullis; peritheciis sparsis v. hinc inde laxissime aggregatis, rarissime 2-3-cæspitosis, hypodermicis, primo tectis dein erumpenti-prominulis, epidermide laciniatim minute fissa cinctis, globulosis, 150-200 μ . d., fulvo-melleis, glabris, ostiolo vix papillato ac visibili donatis, membranaceo-carnosulis, contextu minutissime parenchymatico, subindistincto, dilute fulvo v. melleo-fuligineo; ascis cylindræis, 125-150 \approx 4-4,5, utrinque leniter attenuatis, apice truncatis v. rotundato-truncatis, luce refracta foveolatis, postice brevissime stipitatis, aparaphysatis, octosporis; sporidiis filiformibus ascorum longitudine, tenuissimis, 0,6-0,8, μ . crass., plus minusve manifeste septatis, hyalinis.

Hab. ad folia dejecta putrescentia Luheæ divaricatæ in nemorosis prope Guarapí Brasilæ.

BARYA Fuck. — Sacc. Syll. II, pag. 563.

1. **Barya parasitica** Fuck. Sacc. l. c. — Huc teste Cooke (Cfr. Grevillea VII, p. 101) ducenda sunt *Ascospermum stromaticum* Cooke in Grevillea VIII, p. 38 et *Epichloe virescens* Quélet in Grevillea VIII, p. 38 seu *Acrospermum virescens* Sacc. Syll. II, p. 808.

BALANSIA Speg. Fungi Guar. Pug. I, n. 253 (Etym. a cl. botanico viatore BALANSA). — Stromata stipitato-capitata, extus atra, intus pallescentia, in matrice fere sclerotiacea, nigrefacta dense gregaria. Perithecia in capitulis stromatis peripherica. Asci cylindranei, paraphysati, octospori. Sporidia filiformia ascorum longitudine, hyalina. — Genus singulare, in spicis graminacearum viventium vigenis, *Clavicipiti* peraffine, ab eo tamen satis recedens.

1. **Balansia Claviceps** Speg. Fungi Guar. Pugill. I, n. 253. — Spicis 3998 ad rachidem reductis; rachidibus incrassatulis, longitudinem normalem superantibus, 15-20 cm. long., 2-4 mm. crass., intus albis, lignoso-fibrosis, duris extus fusco-atris v. atris, levibus, barbulis denudatis ac, spicularum loco, stromata gerentibus; stromatibus hemisphæricis v. globulosis, 1,5-3 mm. diam. stipite plus minusve abbreviato, 0,5-3 mm. long., crassiusculo, 1-1,5 mm. crass. insidentibus, intus albo-fuscescentibus, sublignoso-carnosulis, duriusculis, extus atris, glabris, levibus, vix sub lente valida densissime minuteque granuloso-punctulatis; peritheciis sub cortice in stromatum capitulis periphericis densissime constipatis e substantia vix distincta, obovatis, 200-220 μ . alt. 120-140 μ . diam., ostiolo perforato, superficiem stromatis, vix attingente donatis; ascis cylindraneis, apice rotundatis, tunica valde incrassata, basi leniter attenuatis, brevissime rotundatis, 150-160 \approx 5-6, paraphysatis, octosporis, e fundo peritheciarum fasciculatim exsurgentibus; sporidiis filiformibus, fasciculatis, longitudine ascorum, tenuibus, 0,6-0,8 crass., densiuscule ac parum manifeste septatis, hyalinis.

Hab. ad spicas evolutas *Setariæ* v. *Penniseti* speciei cujusdam in dumetis ripariis fluminis Pirayù Brasiliæ. — Species pulcherrima habitu fere *Sclerotii Clavi* formam giganteam clavulis ascigeris, confertissimis ornatam simulans; rachide spicarum vix deformata, barbulis amissis, spiculis in capitula stromatica mutatis. Ob perithecia parum a stromatis substantia distincta ad *Dothideaceas* nonnihil vergens.

2. **Balansia trinitensis** C. et Mass. Devel. of Ephel. p. 35, t. IV. — 3999

Stromatibus globulosis, subtus impressis, 1-1,5 mm. diam., duris, atris, extus papillatis, stipite erecto squamuloso, 2-4 mm. long., 0,5 mm. cr., atris; peritheciis in stromatum capitulis periphericis, constipatis, obovatis, ostiolo exiguo perforato; ascis cylindraceutis, basi attenuatis, 120-130 \approx 9-10, octosporis; sporidiis filiformibus, continuis, flexuosis, hyalinis, 90-100 \approx 1,5.

Hab. in inflorescentia Panici palmifolii in ins. Trinidad (J. H. HART). — Stat. conidicus: *Ephelis trinitensis* C. et Masee.

CLAVICEPS Tul. — Sacc. Syll. II, p. 564.

1. **Claviceps Wilsoni** Cooke in Grevillea XII, pag. 77. — Mycelio 4000
sclerotioideo, cylindrico, subarcuato, atro-purpureo, nigrescente; stromatibus solitariis vel binatis vel ternatis, simplicibus carnosis, albo-flavidis, clavula elongato-clavata, flavo-carnea, e peritheciis laxis, subliberis, prominentibus asperula; peritheciis 0,4 \approx 0,18 mm. diam.; stipite flexuoso, abbreviato, cylindrico, primum albido; ascis angustissimis, linearibus; sporidiis filiformibus, 140 μ . longis.

Hab. in sclerotio Glyceriæ fluitantis in Britannia (J. WILSON).

2. **Claviceps Philippii** Rehm Exot. Pilze p. 302. — Stromatibus gre- 4001
gariis, e sclerotio 2-2,5 cm. long., 3 mm. lat., subcylindrico enatis, capitatis, subglobosis, scabris, stipitatis, cum sclerotio nigerri-
mis; capitulis superficie ob perithecia immersa exasperatis, 0,3-1 mm. diam., stipite circ. 1 mm. alt., 0,2-0,5 mm. lat., intus albidis, firmis; peritheciis immersis, minimis, oculo nudo vix perspicuis; ascis creberrimis, cylindraceutis, apice rotundatis et incrassatis, 120-150 \approx 6; sporidiis octonis, filiformibus, rectis, continuis?, subflavidis, parallele positis, circ. 120 \approx 1; paraphysibus nullis.

Hab. ad sclerotium intra vaginam folii sessile, caryopsidem, infestans, Mergui, Chili Amer. austr. (TH. PHILIPPI). — *C. nigricanti* affinis.

CORDYCEPS Fr. — Sacc. Syll. II, p. 566.

1. **Cordyceps insignis** Cooke et Rav. in Grev. XII, p. 78. — Livido- 4002
purpurea; stipite recto, 3-4 cm. longo, pallide sulcato, æquali, capitulo subgloboso ovato, ob perithecia leniter asperulo; peritheciis minimis, confertis, ovatis, ostiolo punctiformi, obscuriore; ascis cylindraceutis, longissimis, 600 μ . long.; sporidiis filiformibus, 450 μ . long., articulis dissilientibus, 12 μ . long.

Hab. in larvis emortuis humo tectis, Seaboard Car. inf. (RA-

VENEL). — *C. entomorrhizæ* similis sed latior firmiorque. Stipes circiter 4-5 mm. altus, longitudinaliter striatus; capitulum $1\frac{1}{2}$ cm. longum, 1 cm. latum, livido-purpureum.

2. **Cordyceps typhulæformis** Berk. et Cooke in Grevillea XII, p. 78. 4003
— Stromate clavato, gracili, carneo-rubro, in stipitem æqualem attenuato, carnosissimo, circ. 1,25 cm.; peritheciis subprominulis; ascis cylindræis; sporidiis filiformibus.

Hab. in larvis?, in insula Java.

3. **Cordyceps albida** Pat. Bull. Soc. Myc. 1888, p. 116. — Stromate 4004 albo, subflavido, ovoideo, 5-8 \approx 3-6 mm., levi, ostiolis vix punctulato, stipite gracili, 1,5-2 cm. long., circ. 1 mm. cr., farcto suffulto; peritheciis minutissimis, contextu albo et compacto immersis; ascis cylindræis, valde elongatis, apice obtusis, 220-250 \approx 3-4; sporidiis filiformibus, non septatis, guttulatis, ascis æquilongis, hyalinis.

Hab. in larva emortua, sabulo sepulta, Atures Venezuelæ.

4. **Cordyceps nutans** Pat. Bull. Soc. Myc. 1887, p. 127, t. XI, f. 5. 4005
— Stromate fusoido, nutante, rufo, fusoido, 5-6 mm. long., stipite erecto, gracili, rigido, in vivo violaceo, sicco nigro, apice incurvo et rufo; peritheciis punctiformibus, parum prominulis; ascis cylindræis, valde elongatis, 250 \approx 10-13; sporidiis filiformibus, parallelis, hyalinis, in articulos numerosos, cylindræos, 10-15 \approx 1,5 secedentibus.

Hab. inter caput et thoracem Hemipteri cujusdam adulti in Japonia.

5. **Cordyceps Odyneri** Quél. 14 Suppl. pag. 10, tab. XII, fig. 28, et 4006 Bull. Soc. Myc. Franc. 1886, p. 80. — Stipite gracili, 10-20 mm. longo, pruinoso, griseo-pallido, ex mycelio candido floccoso-farinoso orto, capitulo ovoideo, griseo-olivaceo; peritheciis ovoideo-conicis, semilibris, parcis, concoloribus; sporidiis capillaribus, dein septatis, 80 \approx 5, hyalinis.

Hab. in larva quadam Hymenopteri e genere Odyneri in corticibus, Morvan in Vogesis et in nymphe Vesparum sub cortice trunci Betulæ pr. Saint-Prix Galliæ.

6. **Cordyceps sinensis** Berk. — Sacc. Syll. II, p. 577. — Ascis cylindræis, apice capitati; sporidia filiformia, in fragmenta dissiliencia.

7. **Cordyceps dipterigena** Berk. et Br. — Sacc. Syll. II, pag. 577. — Ascis lineares, subflexuosi; sporidia filiformia, articuli breves, subquadrati.

8. **Cordyceps Forquignoni** Quél. XVI Suppl. pag. 6, t. 21, f. 18. — 4007

Stipite subfiliformi, brevi, 3-6 mm. long., pruinoso, cremeo, basi albo, floccoso; capitulo campanulato-cylindraco, 0,5-0,7 mm. cr., basi lacero, libero, stipite apicem amplexente, cremeo dein flavo; peritheciis ellipsoideis, perexiguis, stroma obsolete punctatum efficientibus; ascis sporidiisque filiformibus; conidiis ovoideis perexiguis, 8 μ . long.

Hab. in *Musca rufa* vel *Dasyphora pratorum* in pinetis Vogesorum Galliæ (FORQUIGNON). — Affinis *C. myrmecophilæ*.

9. **Cordyceps Doassansii** Pat. Tab. An. Fung. fasc. V, pag. 213, 4008
fig. 494. — Capitulo 5-8 mm. crasso, brevi, ovoideo, villosa, albo, ostiolis valde prominentibus luteo-maculato; stipite brevissimo vel 1 cm. alto, tomentoso, albo, basi mycelio albo, villosa cincto; ascis cylindracois, 8-sporis; sporidiis filiformibus, elongatis, 90 \approx 45, tenuissimis, continuis; paraphysibus nullis.

Hab. in chrysalidibus Lepidopterorum, Les Eaux Bonnes Galliæ (DOASSANS). — In eodem mycelio etiam conidia in globulum floccosum, stipite gracili, brunneo, 5-8 mm. longo suffultum collecta, sphaeroidea, 4,5-5 μ . diam., hyalina.

10. **Cordyceps Lioydii** Fawcett On an Ent. Fungus, pag. 316 (cum 4009
figura). — Stromatibus solitariis, pallide ochroleucis, ex articulo enatis, capitulo peritheciigero depresso-globoso, altitudine circ. 0,7 mm., latitudine circ. 1,5 mm.; stipite filiformi, infra medium autem incrassato, 4,5 mm. alto, ad basin apicemque 0,25 mm. lat., infra medium 0,5 mm. crasso; peritheciis stromate immersis, protracto-ovatis; ascis longissimis, cylindracois, apice glandiformibus, circiter 160 μ . longis, aparaphysatis; sporidiis filiformibus, asci longitudinem æquantibus, hyalinis (immaturis visis).

Hab. in corpore formicæ atræ [*Camponoti atricipitis*] pr. flumen Puruni in Guiana.

11. **Cordyceps Puiggarii** Speg. F. Fueg. n. 304. 4010

Hab. in corpore *Polybiæ* (*Vespæ*) fasciatæ, S. Farg. inter folia coacervata prope Apiahy Brasiliæ. — Species in Fung. arg. pug. IV, n. 207 perperam sub nomine *C. sphæcophilæ* (Kl.) Berk. et C. edita; nunc cum speciminibus typicis cubensibus hujus speciei comparata longe abhorrens videtur, hinc novo nomine salutanda. Clavulæ sursum in apicem conoideum, longiusculum, acutum sterilem attenuatæ: cfr. descriptionem l. c. et in Sacc. Syll. II, p. 568.

12. **Cordyceps martialis** Speg. F. Puigg. n. 305. — Stromatibus cæ- 4011
spitosis, erectis, glabris, majusculis, inferne teretibus, superne compressis, simplicibus vel sæpe furcatis, aurantiacis, carnosolentis,