

paraphysatis, amplis, crasse tunicatis, clavatis, rectis v. gibbis, 65-112  $\approx$  15-25, 4-8-sporis; sporidiis cymbiformibus, subinde oblongo-ellipticis, granulosis et guttulatis, 20-27  $\approx$  10-12, utrinque in appendiculam hyalinam 6-7  $\mu$ . long. productis.

*Hab.* in ramis siccis Corni sanguineæ, Vigheffio prope Parmam Ital. bor.

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

1. **Trabutia Bauhiniae** Wint. in Hedw. 1885, I. — Stromate tenui, 2437 sæpe obsoleto, atro, crustaceo; peritheciis gregariis, sæpe stellatim vel radiatim dispositis, non raro concretescentibus, semiimmersis, globosis, vertice subconico protuberantibus, atris, nitidiusculis, parte superiori carbonaceis, atris, parte inferiori (immersis) membranaceis, pallidis, 210-240  $\mu$ . diam.; ascis inflato-oblongis, subsessilibus, utrinque attenuatis, membrana tenuissima, apice parum incrassata præditis, 8-sporis, 60-70  $\approx$  17-22; sporidiis inordinatis, oblongis, utrinque parum attenuatis, sed rotundatis, inæquilateralibus, unicellularibus, hyalinis, 16-17,5  $\approx$  5.

*Hab.* ad folia viva Bauhiniae Vahliae in horto botanico Calcuttæ Indiæ (S. KURZ).

2. **Trabutia crotonicola** Rehm in Hedw. 1890, p. 160. — Peritheciis 2438 sparsis, epiphyllis, singulis v. 2-3 connato-confertis, primitus in foliorum parenchymate flavo-fuscescente maculato immersis, dein sessilibus, hemisphæricis, carbonaceo-nigris, nitentibus, demum poro minimo pertusis, 0,3-0,5 mm. diam.; ascis clavato-cylindraceis, apice rotundatis, 8-sporis, 90-100  $\approx$  12-15; paraphysibus filiformibus, teneris, septatis, longissimis, 5  $\mu$ . lat.; sporidiis oblongis obtusis, rectis v. subcurvatis, continuis, hyalinis, minute guttulatis, 15-17  $\approx$  7-8, in ascorum apice sæpe distichis, plerumque monostichis.

*Hab.* ad folia viva Crotonis floribundi, Rio de Janeiro Brasiliæ (E. ULE).

3. **Trabutia Eucalypti** Cooke et Mass. Grevill. XVII, p. 43. — Epi- 2439 phylla; stromate coriaceo, suborbiculari, 3 mm. diam., convexo-ruguloso, atro, nitido; peritheciis in stromate innatis, protuberantibus, ostiolo minuto pertusis; ascis cylindrico-clavatis; sporidiis elliptico-lanceolatis, continuis, hyalinis, 30  $\approx$  8-9.

*Hab.* in foliis Eucalypti viminalis  $\beta$ . manniferæ in Tasmania Oceaniæ.

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

1. **Ditopella microscopica** Karst. in Rev. mon. p. 71, *Apiosporium microscopicum* Karst. Symb. ad Myc. Fenn. VI, p. 42, Sacc. Syll. I, pag. 132. — Perithecia sparsa, epidermide innata, sphæroidea, subastoma, levia, atra, 30-40  $\mu$ . diam.
2. **Ditopella fuispora** De Not. — Syll. I, p. 450. — Forma in Belgio lecta ad Alnum glutinosam (Cfr. Bomm. et Rouss. Contrib. Myc. Belg. II, p. 21) præbet ascos 16-sporos, 60-84  $\approx$  16-24; sporidia cylindræa vulgo recta, simulate 1-septata, 17-24  $\approx$  4-5, utrinque rotundata et ciliata.

**TRICHOSPHERIA** Fuck. — Sacc. Syll. I, p. 453.

1. **Trichosphæria Punctillum** Rehm. — Sacc. Syll. I, p. 452. — \* **T.** <sup>2440</sup>  
**pachyspora** Sacc. Rouss. et Bomm. in Misc. Myc. I, pag. 17. — Peritheciis  $\frac{1}{4}$  mm. diam.; setulis septatis, atro-fuscis, 150-200  $\approx$  8; ascis tereti-fusoideis, 30-80  $\approx$  10; sporidiis ellipsoideis, utrinque acutiusculis 10-12  $\approx$  7, granulosis, hyalinis v. dilutissime flavidis.  
*Hab.* in lignis putridis prope Bruxelles in Belgio. — A typo recedit sporidiis paullo brevioribus et crassioribus.
2. **Trichosphæria Rostrupii** Berl. et Vogl. Add. Syll. p. 405, *Tricho-* <sup>2441</sup>  
*sphæria* sp. Rostrup. Unders. Svamp. Rhizoct. p. 19, t. I, f. 6-8. — Peritheciis purpureo-brunneis, pseudo-parenchymaticis, orbicularibus, setis rigidis, concoloribus, radiantibus, basi septatis, apice acutis, 100  $\approx$  5 ornatis; ascis oblongis, sursum acutis, basi in pedicellum breve desinentibus, 45-50  $\approx$  8-10, octosporis, aparaphysatis; sporidiis inordinate distichis, allantoideis, utrinque uniguttatis, rectis vel curvulis, 14-18  $\approx$  5.  
*Hab.* in radicibus Ligustri in Islandia.
3. **Trichosphæria pachnostoma** (B. et C.) Cooke Grev. XV, pag. 80, <sup>2442</sup>  
*Sphæria pachnostoma* B. et C. — Peritheciis lanosis, 1 mm. diam.; ascis clavatis; sporidiis lanceolatis, continuis, hyalinis, 30  $\approx$  5.  
*Hab.* in ligno in Venezuela.
4. **Trichosphæria pilosa** (Pers.) Fuck. \* **nitidula** Sacc. Mich. II, p. 605. <sup>2443</sup>  
— A typo differt setulis bacillaribus tantum verticeque perithecii nudato nitidulo; setæ 200-260  $\approx$  5-6, cuspidatæ fuscæ; ascis tereti-clavatis 54-58  $\approx$  3-4; sporidiis submonostichis, oblongatis 7-8  $\approx$  2,5-3, 2-3-guttulatis, hyalinis.  
*Hab.* in sarmentis corticatis Rubi fruticosi prope Rouen Galliæ (LETENDRE).

5. **Trichosphæria corynephora** (Cooke) Sacc., *Byssosphæria corynephora* Cooke Grev. XI, p. 109. — Effusa, aterrима; hyphis repentibus, septatis, ramulosis, ramulis assurgentibus; conidiis clavatis, infra longe attenuatis, fuscis, multiseptatis (9-11) superne truncatis 150  $\approx$  18; peritheciis subglobosis, depressis, superne glabris, ad basim tomentoso-intertextis; ascis cylindræo-clavatis; sporidiis lanceolatis, continuis, hyalinis, 20  $\approx$  4.

*Hab.* in ramis *Ostryæ virginæ* in Amer. bor.

6. **Trichosphæria Elisæ-Mariæ** Sacc. et Pat. Rev. mycol. V, p. 25, 2445 t. XXXVI, f. 5. — Peritheciis hinc inde gregariis superficialibus, globosis, exiguis,  $\frac{1}{6}$  mm. diam., atris subcarbonaceis, setulis filiformi-cuspidatis, septulatis fuliginis rectiusculis vestitis; ascis terti-clavatis, stipitatis, paraphysatis, 90-100  $\approx$  7-8, octosporis; sporidiis oblique monostichis, breve fusoides, rectis v. inæquilateralibus, 15-18  $\approx$  5-5,5, continuis, guttulatis 5-7 sæpius uniseriatis, hyalinis. — Adsunt hinc inde cæspituli conidiophori ab *Acrothecio simplici* (conidiis fusoides, 3-septatis fuliginis subcapitatis) formati.

*Hab.* in foliis siccis *Epilobii spicati* pr. Bruxelles Belgii. Legerunt cl. Dominæ ELISA BOMMER et MARIA ROUSSEAU.

7. **Trichosphæria Hariotiana** Karst. et Har. Rev. Myc. 1890, Oct. — 2446 Peritheciis sparsis v. confertim gregariis, erumpentibus, superficialibus, submembranaceis, lentiformibus v. subsphæroideis, atris, pilis simplicibus, concoloribus, rigidis, continuis, strictis vel leviter flexuosis, divergentibus, 50-90  $\mu$ . long., vestitis, basi vulgo macula fuliginea cinctis, circ. 0,2 mm. lat.; ascis fusoides-elongatis, subsessilibus, curvulis, circ. 60  $\approx$  10; sporidiis octonis, ellipsoideo-oblongatis, utrinque leviter attenuatis, continuis, intus granulosis, rectis, hyalinis v. chlorino-hyalinis, 14-17  $\approx$  6-7; paraphysibus nullis.

*Hab.* ad Orchidaceam quandam cum *Glæosporio pallido* insul. Madagascar in Calidariis musei parisiensis.

8. **Trichosphæria? barbicineta** (E. et E.) Sacc., *Byssosphæria* E. et E. Journ. Myc. 1888, p. 63. — Peritheciis sparsis, depresso-globosis, circ.  $\frac{1}{4}$  mm. diam., ostiolo papilliformi, distincto, nigro, micante præditis; ascis anguste clavato-cylindræis, circ. 75  $\approx$  6, copiose paraphysatis; sporidiis distichis, oblongis, 3-4-nucleatis, hyalinis, 9-12  $\approx$  2,5-3, utrinque subobtusis.

*Hab.* in *Diatrype Tremellophora vetusta* et cortice adjacenti *Magnolix*, Newfield, New Jersey Amer. bor. — Matrix pilis erectis, opacis, fragilibus, 250  $\mu$ . long. tecta.

9. **Trichosphæria lichenum** Karst. et Har. Rev. Myc. 1890 Oct. — 2448

Peritheciis superficialibus, sphæroideis vel sphæroideo-conoideis, confertim gregariis, carbonaceis, atris, setulis strictis divergentibus, continuis, acutis, concoloribus, 60-90  $\mu$ . longis, sat parce vestitis, 0,1 mm. v. paullo ultra diam.; ascis fusoideis, curvulis, circ. 45  $\approx$  6-7; sporidiis octonis, di- vel oblique monostichis, fusoideo-elongatis, hyalinis, 6-9  $\approx$  2.

*Hab.* in thallo *Peltigeræ caninæ*, Fontainebleau Galliæ (TULASNE).

**TRICHOSPHERELLA** Bomm. Rouss. Sacc. (Etym. a *Trichosphæria*, cui affine genus). — Perithecia superficialia, globoso-ovoidea, membranaceo-coriacea, atra, setulis vestita. Asci tereti-clavati, 16-spori, paraphysati. Sporidia ellipsoidea v. globulosa, continua, hyalina. — Est *Trichospæria* pleiospora.

1. **Trichosphærella decipiens** B. R. S. sp. n. — Peritheciis ovoideis, 90- 2449

120  $\mu$ . diam., superficialibus, sparsis, opace nigro-brunneis, vertice setuli rigidis, acuminatis, continuis, parcis (7-10) coronatis; ascis sessilibus, tereti-clavatis vel anguste fusoideis, 16-sporis, 30-36  $\approx$  6-7; paraphysibus parum distinctis; sporidiis distichis, ellipsoideis v. subglobosis, 4-5  $\approx$  2,5, continuis, hyalinis, vulgo 2-guttulatis.

*Hab.* in ramis decorticatis *Fagi silvaticæ*, Poix Galliæ.

**SCORTECHINIA** Sacc. (Etym. a sollertiss. botanico italo Rev. BENEDE. SCORTECHINI, Australiæ et Malesiæ exploratore), *Trichosphæria* Sacc. ex p. Syll. I, p. 454, *Sphæria* Mont. — Perithecia in subiculo late effuso, compacto, pannoso fusco, fere penitus immersa, minutissima, levia, epapillata, tandem pertusa, vix carbonacea. Subiculis hyphæ subdichotomæ ramosæ, filiformes, fuliginæ, continuæ, ubique spinulis, apice acute 2-3-dentatis exasperatæ. Asci clavati, tenerrimi, longe stipitati, apice obtusi, octospori, paraphysati. Sporidia disticha, ex oblongo breve fusoidea, utrinque acuta, hyalina.

1. **Scortechinia Culcitella** (B. et Rav.) Speg. F. Guar. II, pag. 27, 2450

*Sphæria Culcitella* B. et R. — Syll. II, p. 402 — *Scortechinia acanthostroma* Sacc. et Berl. Misc. Myc. II, n. 22, nec *Sphæria acanthostroma* Mont. seu *Trichosphæria acanthostroma* Sacc. Syll. I, p. 454. — Asci p. sp. 35-40  $\approx$  9, stipite 35-40  $\approx$  2,5; sporidia 10-11  $\approx$  3,5-4,5, biguttata: adsunt quoque conidia hyphis inspersa obovato-oblonga, 12-13  $\approx$  5-6, binucleata, pallide lutescentia.

*Hab.* ad cortices arborum, Burleigh Head Australiæ et in Brasilia, Venezuela et Cuba. — Sec. Spég. l. c. *Trich. acanthostroma* (Mont.) Sacc. Syll. I, p. 454 est species omnino diversa sub *Trichosphæriæ* titulo servanda et cum *Sphæria foveolata* B. et C., Sacc. Syll. I, p. 271 (sub *Rosellinia*) identica. Viget hæc quoque in Brasilia.

**WALLROTHIELLA** Sacc. Syll. I, p. 455.

1. **Wallrothiella eunotiæspora** (Cooke et Hark.) Berl. et Vogl. Add. 2451 Syll. p. 68, *Sphæria eunotiæspora* Cooke et Harkness in Grevillea XIII, p. 18. — Superficialis, gregaria; peritheciis obpiriformibus,  $\frac{1}{2}$  mm. diam., atris, subnitidis, levibus, fragilibus; ascis clavatis; sporidiis ellipticis, medio inflatis, biseriatis, continuis, 30-35  $\approx$  12-14, plasmate granuloso.

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

2. **Wallrothiella Fendleri** B. et C. in Herb. Berk. 9628, Grevill. XV, 2452 p. 82. — Peritheciis densissime gregariis, globosis, atris, demum depressis; sporidiis arcuatis, utrinque acutis, multinucleatis, hyalinis, 50  $\mu$ . long.

*Hab.* in ligno, ubi?, an in America centrali?

3. **Wallrothiella Rhododendri** (Ces.) Sacc. *Sphæria* Klotz. Herb. Myc. 2453 n. 1836, Grev. XIX, pag. 72. — Peritheciis perfectis, subglobosis, ostiolum minutum quidem sed distinctum papillæforme præbentibus; ascis cito evanescentibus; sporidiis ovoideo-oblongis, hyalinis, simplicibus.

*Hab.* in ramis Rhododendri in Ital. bor.

4. **Wallrothiella Salicis** Har. et Br. Rev. Myc. 1891, p. 15. — Peritheciis superficialibus, sparsis vel approximatis, irregulariter globosis,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., brunneis, depressis, rugosis, supra sæpe crateriformibus; ascis cylindræis, sessilibus, 8-sporis, 60-80  $\approx$  10-12; paraphysibus cohærentibus; sporidiis distichis vel oblique monostichis, ovoideis, hyalinis, 14-16  $\approx$  8.

*Hab.* in ramulis decorticatis Salicis, Loudun, Vienne Galliæ.

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

1. **Botryosphæria Quercuum** (Schw.) Sacc. Syll. I, p. 456, var. **Carpini** Sacc. Misc. Myc. II, pag. 21, n. 92. — Acervulis pulvinatis, minutis, aterrimis; ascis clavatis, crasse tunicatis, 120-140  $\approx$  28-32,

crassiuscule paraphysatis, octosporis; sporidiis distichis, ovoideis, 28-32  $\approx$  14-18, intus granulosus, hyalinis.

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

2. **Botryosphæria minor** Ell. et Ev. Journ. Myc. 1888, p. 65. — Pe- 2456  
 ritheciis minutis, 150-170  $\mu$ . diam., intus albis, plerumque 2-6 in  
 stromate imperfecto gregariis, erumpentibus; ascis 75  $\approx$  20; spori-  
 diis confertim distichis, subellipsoideis, utrinque angustatis, 14-16  
 $\approx$  6-7, flavido-hyalinis.

*Hab.* ad Sesbaniam, Louisiana Amer. bor. (LANGLOIS). — A  
*B. fuliginosa* minutie præcipue differt.

3. **Botryosphæria Ficus** (Cooke) Sacc. *Melogramma Ficus* Cooke Gre- 2457  
 villea XI, p. 108. — Erumpens; peritheciis minimis, obtusis, atris,  
 opacis, in cæspitulos lineasque erumpentibus; ascis clavatis; spo-  
 ridiis ellipticis, lanceolatis, continuis, hyalinis, 25  $\approx$  10.

*Hab.* in cortice Fici Caricæ, Aiken Carolina inf. Amer. bor.  
 (RAVENEL).

4. **Botryosphæria Sumachi** (Schw.) Cooke Grev. *Sphæria Sumachi*  
 Schw. — Syll. II, n. 4220. — Sporidia majuscula ellipsoidea,  
 hyalina.

5. **Botryosphæria inflata** Cooke et Mass. Grevill. XVII, pag. 42. — 2458  
 Peritheciis cortice interiore nidulantibus, demum rimoso-erumpen-  
 tibus, papillatis, glabris, atris, contextu coriaceo, rimis arcte con-  
 niventibus, graphideis, flexuosis; ascis clavatis, 8-sporis; sporidiis  
 distichis, ellipticis, utrinque obtusis, medio inflatis, continuis, hya-  
 linis, 33-35  $\approx$  10.

*Hab.* in cortice quodam, Habgalla Ceylon Asiæ austr.

6. **Botryosphæria hypoxylodea** Cooke in Grevillea XII, p. 102. — 2459  
 Mox superficialis, hypoxylodea; peritheciis minimis, in pustulas  
 orbiculares coacervatis, convexis, rugosis, atris, opacis, confluen-  
 tibus; ascis cylindrico-clavatis, octosporis; sporidiis ellipticis, con-  
 tinuis, hyalinis, 12  $\approx$  5.

*Hab.* in ramis in Australia.

7. **Botryosphæria Callicarpæ** Cooke in Grevillea XIII, pag. 101. — 2460  
 Longitudinaliter erumpens; stromate elongato; peritheciis parvu-  
 lis confluentibus, atris; ascis clavatis; sporidiis continuis (imma-  
 turis visis).

*Hab.* in cortice Callicarpæ americanæ, Darien Georgiæ.

8. **Botryosphæria Berengeriana** De Not. — Sacc. Syll. I, p. 457. \*B. 2461  
**pachyspora** Sacc. Misc. Myc, II, pag. 22, n. 31. — A typo recedit

sporidiis crassioribus, nempe 20-32  $\approx$  14-18, et ascis angustioribus, nempe 120-180  $\approx$  28-32.

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

9. **Botryosphæria melachroa** Berk. et Curt. in Herb. Berk. Cooke 2462  
in Grevillea XIII, p. 101. — Stromate longitudinaliter effuso, innato, erumpente; peritheciis ovatis, confertis, subdiscretis, atris, ad apicem rotundatis, paucis; ascis clavato-cylindricis; sporidiis ellipticis, continuis, 20  $\approx$  8, hyalinis.

*Hab.* in Cratægo cordato in Pensylvania Amer. bor.

10. **Botryosphæria mutila** (Schw.) Cooke in Grevillea, *Sphæria mu-* 2463  
*tula* Schw. Amer. bor. n. 1439, sec. spec. — Stromate innato; peritheciis in series flexuosas erumpentibus subconfluentibus, globosis, superiore parte prominente, inæquali, rugosa, intus nucleo albedo farctis; ascis clavatis, octosporis; sporidiis ellipticis, continuis, hyalinis, 20-22  $\approx$  9,

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

11. **Botryosphæria Syringæ** (Schw.) Cooke in Grevillea *Sphæria Sy-* 2464  
*ringæ* Schw. Amer. bor. n. 1667. — Ascis elongato-clavatis, octosporis; sporidiis arcte ellipticis, continuis, hyalinis, 26-28  $\approx$  8.

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

12. **Botryosphæria Araliæ** Curt. Cat. 143, Cooke in Grevillea XIII, 2465  
pag. 101. — Stromatibus innato-erumpentibus, corticulis, subpulvinatis, nigris, plerumque lineato-aggregatis, 1 mm. diam., albo-farctis, peridermate cinctis; peritheciis vix distinctis, obtusiusculis, opacis; ascis clavatis, octosporis; sporidiis ellipticis, continuis, hyalinis, 18  $\approx$  8.

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

13. **Botryosphæria Viburni** Cooke in Grevillea XIII, p. 102. — Stro- 2466  
matibus erumpentibus, gregariis, minimis  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam., corticulis, depresso pulvinatis, atro-fuscis, superficie tuberculosis, nucleo albo farctis; peritheciis 6-10, subimmersis, vertice convexis, pertusis; ascis clavatis; sporidiis arcte ellipticis, continuis, flavescensibus, intus granulosis, 18-21  $\approx$  8.

*Hab.* in ramis Viburni Opuli in America boreali.

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

15. **Botryosphæria abrupta** Berk. et Curt. in Herb. Berk. Cooke in 2467

Grevillea XIII, p. 101. — Stromatibus erumpentibus, epidermide rimosa arcte cinctis, subdiscoideis; peritheciis globosis, semiimmersis, atris, demum confluentibus, truncato-obtusis, abruptis, intus albis; ascis clavatis, octosporis; sporidiis elliptico-fusiformibus, utrinque subattenuatis, obtusis, continuis, hyalinis, flavescensibus, intus granulosis, 22-24  $\approx$  10.

*Hab.* in Cyrilla in Carolina Americæ.

16. **Botryosphæria imperspicua** Passer. Diagn. Fung. nuovi I, n. 7. 2468

— Peritheciis paucis, minutis, papillatis, in acervulos parvulos pustuliformes vel lineares vix prominulos, sæpe tectos, aggregatis, fuscis; ascis paraphysatis, oblongo-clavatis, attenuato-stipitatis, 8-sporis, 175  $\approx$  15; sporidiis continuis, rhombeis, intus granulosis et guttulatis, hyalinis, 20-25  $\approx$  10.

*Hab.* in caulibus siccis Euphorbiæ Characiæ pr. Lacum Bolsena in prov. Roma.

17. **Botryosphæria Hypericorum** Cooke in Grevillea XIII, p. 102. — 2469

Subelliptica, planiuscula, atra; peritheciis parvulis, connatis, albifarctis, epidermide fissa arcte cinctis; ascis clavatis, octosporis; sporidiis anguste ellipticis, continuis, hyalinis, circiter 20  $\approx$  5, immaturis.

*Hab.* in caule Hyperici proliferi in America boreali. — Ad **Botryosphæriam** forte pertinent *Hypoxylon Pseudotubulinam* Ces. (1379), *Hypoxylon palmigenum* B. et C. (1435); sporidiis enim hyalinis et habitu dothideaceo pollent.

**GIBELLIA** Sacc. in Misc. Myc. II, p. 12 (Etym. a præclaro botanico prof. JOSEPHO GIBELLI de metagenesi Pyrenomycetum deque pathologia mycogena optime merito). — Stromata subcutaneo-erumpentia, e basi definita depresso-pulvinata, atra, intus pallidiora, superficie ostiolis vix prominulis punctulata. Perithecia globulosa, monosticha. Asci tereti-fusoidei, sessiles, spurie paraphysati, lumine apice bifoveolati, octospori. Sporidia globoso-ellipsoidea, continua, hyalina. — *Dothideaceas*, præsertim *Mazzantiam*, fere imitatur, sed perithecia vera adsunt. Inter *Sphæriaceas hyalosporas*, inter *Botryosphæriam* et *Cryptosporellam* locandum.

1. **Gibellia dothideoides** Sacc. et Berl. Misc. Myc. II, n. 23. — Stro- 2470

matibus e basi elliptica depresso-pulvinatis, laxe gregariis, 2  $\approx$  1-1,5 mm., epidermide secedente demum nudatis, atris, intus pallidioribus, ostiolis leviter prominulis, remotiusculis, punctiformibus; peritheciis globulosis, monostichis,  $\frac{1}{3}$ - $\frac{1}{3}$  mm. diam., in quoque stro-



mate 6-10; ascis tereti-fusoideis, sessilibus, apice obtusis lumineque bifoveolatis, 90-100  $\approx$  20-25; paraphysibus spuriiis, guttulatis obvallatis, octosporis; sporidiis distichis vel oblique monostichis e globoso-ellipsoideis, 18-20  $\approx$  12-14, bi-pluriguttulatis, hyalinis.

*Hab.* in ramis corticatis lignosis ignotæ speciei in M. Moon Australiæ (SCORTECHINI). — A *Bagnisiella Tamaricis* et *B. Illicis*, quæ *Botryosphæriam* propius spectant, omnino diversa.

### CRYPTOSPORELLA Sacc. Syll. I. p. 466.

1. **Cryptosporella divergens** (Schw.) Berl. et Vogl. Add. Syll. p. 70, 2471  
*Sphæria* Schw. Syn. Car. 123 et Syn. Amer. bor. n. 1393, *Valsa divergens* Cooke in Grevillea XIII, p. 40. — Stromate tumidiusculo; acervulis perithecorum 5-10 mm. diam. æquantibus, suborbicularibus, epidermide cinctis; peritheciis atris vel cinerescensibus, ostiolis teretibus, longissimis, perithecio triplo longioribus, divergentibus; ascis octosporis; sporidiis subellipticis, hyalinis, 7  $\approx$  2, endochromate granuloso farctis.  
*Hab.* in ramis dejectis Liquidambaris in Amer. bor.
2. **Cryptosporella paucispora** (Peck) Berl. et Vogl. Add. Syll. p. 70. 2472  
*Valsa* Peck in 33 Rep. St. Mus. 1883, p. 33. — Pustulis epidermide vix elevata, demum rupta tectis; peritheciis 2-5, cortice interiore insidentibus; ostiolis brevibus, nigris, discum minutum, pallidum perforantibus, raro leniter radiato-sulcatis; ascis brevibus, 62-70  $\mu$ . longis, subcylindræis, tetrasporis; sporidiis simplicibus, monostichis, subhyalinis, ovato-ellipsoideis, 15-20  $\approx$  10-11.  
*Hab.* in ramulis emortuis Alni, North Greenbush Amer. bor.
3. **Cryptosporella Lentaginis** Rehm in Ellis Amer. Nat. 1883, Febr. 2473  
p. 195. — Peritheciis globosis  $\frac{1}{2}$  mill. diam., membranaceis, plerumque 3-4 aggregatis, stromate corticali basique lignum penetrante; ostiolis brevibus, epidermidem pustulatim elevatam perforantibus; ascis clavato-cylindræis, 45  $\approx$  7-8; sporidiis biseriatis, cylindræis, hyalinis, rectis curvulisve, 2-3-nucleatis, 12  $\approx$  2-2.5.  
*Hab.* in ramis Viburni Lentaginis, Decorah Iowa Amer. bor. (E. W. HOLWAY). — Substantia corticis ex stromate nigrificata.
4. **Cryptosporella farinosa** (Ellis) Sacc. *Valsa farinosa* Ellis Torr. 2474  
Bot. Cl. 1882, p. 99. — Stromate corticali; peritheciis paucis 2-4 pallidis, 350  $\mu$ . diam. corticem pustulatim elevantibus; disco tuberculiformi, flavido-albo, furfuraceo; ostiolis latiusculis, olivaceo-nigris, ovoideis v. conicis, dein dilabentibus, foveolamque relinquen-

tibus; ascis clavato-cylindraceutis, obtusis; paraphysibus indistinctis; sporidiis 1-2-stichis, acute ellipticis, subhyalinis, 1-nucleatis, 15 = 5.

*Hab.* in corticibus, New Jersey Amer. bor. — Species ostioliis mire ludibunda.

5. **Cryptosporella Ilicis** H. Fab. Spher. Vaubl. II, p. 34, f. 3. — Peritheciis modo sparsis, solitariis, cortici simul ac ligno infossis, peridermio nigrificato et pustulatum inflato tectis, modo 2-10 in pulvinulos valseos 1-1 mm.  $\frac{1}{2}$  latos, epidermide rupta cinctos, absque stromate irregulariter aggregatis, globosis,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. latis; ostioliis atris nitidis, papillulatis, sparse e vertice pulvinuli emergentibus; ascis aparaphysatis, cylindraceutis, brevissime stipitatis, fere sessilibus, 8-sporis, 150-160 = 8-9; sporidiis oblique monostichis, hyalinis, fusoides, utrinque arcte attenuatis et longe acuminatis 1-magni-guttatis et granulosis, 30-34 = 6-8.

*Hab.* ad ramos et ramulos deciduos *Quercus Ilicis*, in umbrosis Vaocluse Galliæ.

6. **Cryptosporella Ampelopsidis** (Ellis) Sacc. *Valsa Ampelopsidis* Ellis Bull. Torr. Bot. Club. 1882, pag. 112. — Peritheciis paucis ligno insidentibus stromateque distincto carentibus; ostioliis cylindraceutis subacutis, apicibus in discum ellipticum planum collectis, corticem dein secedentem rimose perforantibus; ascis clavato-cylindraceutis; sporidiis biseriatis ellipticis subacutis, 1-nucleatis, v. 2-3-nucleolatis, 17 = 6-7, hyalinis.

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

**DIAPORTHOPSIS** H. Fab. Spher. Vaubl. II, p. 35, f. 3 (Etym. *Diaporthes* et *ops*, aspectus). — A genere *Diaporthes* (cujus sporidia didyma sunt) differt sporidiis absolute continuis; cetera eadem. — Huc spectant: *Diaporthopsis nigrella* (Niessl) H. Fab. l. c. (= *Diaporthes nigrella* Syll. I, pag. 648).

**INZENGÆA** Borzi Ein neu. Ascom. (Etym. a claro mycologo siculo G. INZENGÆA). — Perithecia superficialia, globoso-obovata, poro amplo pertusa, majuscula. Asci primum globosi, dein stellati, octospori. Sporidia stellata, uninucleata rubentia, hyalina. Status conidicus *Coremium Borzianum* Sacc. — Ob sporidia et ascos eximie stellata potissimumque ob fabricam perithecorum genus hoc familiolam propriam constituere forte meretur.

1. **Inzengæa erythrospora** Borzi Iuz. ein. neu. Ascomyc. tab. XIX, fig. 9-10, *I. asterospora* Borzi F. parass. oliv. p. 1. — Perithe-

ciis superficialibus, verticaliter globoso-obovatis, subiculo myceliali insidentibus, poro amplo pertusis,  $\frac{1}{3}$ - $\frac{3}{4}$  mm. altis; ascis globosis, primum tunica levi instructis demum crasse muricatis stellisque, 17  $\mu$ . diam., octosporis; sporidiis stellatis, crasse uninucleatis, 8  $\mu$ . diam., hyalinis.

*Hab.* in fructibus putridis Oleæ europææ, S. Filippo Siciliae. — Status conidicus *Coremium Borzianum* Sacc. — Sec. Cooke (Grev. XVI, p. 116), *Thecospora bifida* Hark. — Syll. IV, p. 679 — est hujus speciei status imperfectus. *Emericella varicolor* B. et Br. — Syll. VII, 1, pag. 154 — est secundum analysim cl. Pat. in Bull. Soc. Myc. 1891, pag. 45, tab. IV, fig. 6-12, fungus ex eodem genere et vix differt perithecio villosa, flavido 1-3 mm. alt. lignicolo; ascis compresso-stellatis, 12-15  $\mu$ . diam. 6-8  $\mu$ . cr.; sporidiis 8-10-dentatis, 3-4  $\mu$ . diam. (sine dentibus), rubris. — Nomen *Emericella* multo antea sed ejusdem diagnosis a Berkeleyo data omnino falsa.

**HORMOSPHÆRIA** Lév. in Ann. Sc. Nat. 1863, p. 297 (Etym. *hormos* monile et *Sphæria*). — Perithecia carnosa, grumosa, unilocularia, sporangiis 3-4 repleta. Sporangia membranacea, tenuia, subglobosa, sporidiis concatenatis farcta.

1. **Hormosphæria tessellata** Lév. in Ann. Sc. Nat. 1863, pag. 297. — 2478  
Peritheciis gregariis, discretis, erumpentibus, globosis, tessellato-rimosis, maculis albidis, orbicularibus vel irregularibus, ambitu limitato, primo albis, nitoris argentei, demum nigris, opacis, paginam superiorem foliorum occupantibus insidentibus, ostioliis (quando conspicuis) papillatis; sporangiis membrana tenuissima anghista, plus minusve globosis, in perithecii cavitate liberis, pallide viridibus; sporidiis globosis, concatenatis, levibus, hyalinis.

*Hab.* ad folia Thibaudia floribundæ, Bogota, Paramo San Fortunio Novæ Granat. (LINDIG). — « Genus valde paradoxum; an inter *Algas Nostochineas* locandum? »

#### Sect. 4. Hyalodidymæ.

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

##### I. Herbicolæ.

1. **Sphærella fuispora** Fuck. in Reis. nach Nordpolarmeer et Oud. 2479  
Contr. Fl. Myc. Now. Semlja pag. 151, tab. II, fig. 4. — Perithe-

ciis in gregibus laxis sub epidermide nidulantibus, demum totis liberis, minutis, aterrimis, globosis, ostiolo papillæformi, truncato, perforato; ascis fasciculatis, oblongis, sessilibus, 8-sporis,  $60 \approx 20$ ; sporidiis oblique imbricato-distichis, fusiformibus, subrectis, utrinque obtusiusculis, inæqualiter didymis, ad septum parum constrictis, loculis 1-2-guttulatis,  $24 \approx 6$ , hyalinis.

*Hab.* in foliis et caulibus exsiccatis Ranunculi pygmæi, Nowaja Semlja seu Nova Zembla.

2. **Sphærella nivalis** Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 11, t. I, f. 8. — Peritheciis minutis, primitus infra epidermidem absconditis, postremo vertice prominulis, poro pertusis, quoad structuram tenerrimis; ascis cylindræcis, brevissime pedicellatis,  $90 \approx 9$ , 8-sporis; sporidiis monostichis, hyalinis, oblongis, 1-septatis, loculo superiore subampliore,  $11-12 \approx 4-5$ . 2480

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

3. **Sphærella septorioides** Peck 32 Rep. p. 52. — Maculis paucis, orbicularibus, angulosis v. irregularibus, albis; peritheciis numerosis, minutis, hypophyllis, nigris; ascis oblongis; sporidiis confertis, 1-septatis, hyalinis,  $12,5 \mu$ ., loculis subæqualibus. 2481

*Hab.* in foliis viventibus Thalictri dioici, Central Bridge Amer. bor.

4. **Sphærella Thalictri** Ell. et Ev. in Journ. of Myc. 1885, p. 44. — Peritheciis hypophyllis,  $90 \mu$ . diam., contextu crasse parenchymatico, sursum late pertusis, hemisphæricis, in siccitate complanatis, sparsis in maculis parvis, 2-3 mm. diam., rotundis, margine obscuro cinctis; ascis sessilibus,  $36 \approx 7$ ; sporidiis stipatis, ovato oblongis, granulosis, nucleatis (demum uniseptatis?),  $12-16 \approx 3-4\frac{1}{2}$ . 2482

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

5. **Sphærella Allescherii** Sacc. *Sphærella Thalictri* Allesch. Süd-Bay. II, Nachtr. p. 60. — Peritheciis maculas nigras non efformantibus, gregariis vel sparsis, initio epidermide tectis, dein superficialibus, globosis, apice pertusis; ascis cæspitosis, subcylindræcis, circ.  $50-60 \approx 8$ , apophysatis; sporidiis oblique distichis, clavatis, sæpe fusoides, 2-ocularibus, uno loculo sæpius latiore, utrinque obtusiusculis, circ.  $12-15 \approx 2-2,5$ , hyalinis. 2483

*Hab.* in caulibus siccis et putridis Thalictri aquilegifolii pr. München Baviaræ. — *S. caulicolæ* affinis.

6. **Sphærella Vitalbæ** Passer. Diagn. F. nuovi I, n. 8. — Peritheciis 2484

crebre sparsis, punctiformibus, atris; ascis brevibus, basi ventricosis, breviter constricto-stipitatis,  $62 \approx 20$ , 8-sporis; sporidiis subtristichis, apice altero obtusiore,  $20-25 \approx 7-7,5$ , hyalinis.

*Hab.* in sarmentis aridis Clematidis Vitalbæ, Fornovo Parma.

7. **Sphærella vitalbina** Passer. Diagn. F. nuovi III, n. 6. — Peritheciis 2485  
 cillis sparsis, minutis, tectis, globoso-depressis, atris; ascis variis, elongato-clavatis vel inferne inflatis aut ovatis et gibbis,  $30-75 \approx 10-15$ , 8-sporis; sporidiis distichis vel conglobatis, navicularibus vel cuneatis, medio septatis, leniter constrictis,  $12,5 \approx 2,5-3$ .

*Hab.* in sarmentis aridis Clematidis Vitalbæ, Sala prov. Parma. — A *S. Vitalbæ* differt præcipue sporidiis multo minoribus et etiam ascorum forma varia.

8. **Sphærella applanata** Ell. et Ev. Journ. Myc. 1888, p. 98. — Spar- 2486  
 sa, punctiformis, applanata, epidermide pellucida tectis; ascis oblongis,  $40-50 \approx 15$ ; sporidiis biseriatis oblongo-ellipsoideis vel piri-  
 formibus, 1-septatis, hyalinis,  $18-20 \approx 6-8$ .

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

9. **Sphærella Papaveris** Fuck. in Heuglin Reisen Nordpol. vol. III 2487  
 et Oudem. Contr. Fl. Myc. Now. Seml. p. 6, tab. II, f. 2. — Peritheciis in foliorum nigrescentium pagina superiore et inferiore gregariis, et fere foliorum totam superficiem occupantibus, minutissimis, aterrimis, conicis; ascis fasciculatis, oblongis, 8-sporis,  $56 \approx 24$ ; sporidiis conglobatis, oblongo-clavatis, utrinque obtusis, rectis, inæqualiter didymis,  $22 \approx 8-10$ , hyalinis.

*Hab.* in foliis exsiccatis Papaveris nudicaulis in insula Nowaja Semlja seu Nova Zembla.

10. **Sphærella pachyasca** Rost. Fungi Groenl. p. 552. — Peritheciis 2488  
 sparsis vel gregariis, foliicolis vel cladogenis; ascis crasse ovoideo-oblongatis, inæquilateralibus,  $40-50 \approx 15-24$ , vulgo apice tuni-  
 catis; sporidiis conglobatis, conoideo- vel ovoideo-oblongatis,  $16-20 \approx 5-6$ .

*Hab.* in foliis caulibusque herbarum plurimarum, e. g. Epilobii, Drabæ, Arabidis, Ranunculi, Thalictri, Saxifragæ, Pyrolæ, Pleurogynes, Campanulæ, Thymi, Stenhammaricæ, Plantaginis, Diapensicæ in Groenlandia. — Respondet *Sph. Tassianæ*.

11. **Sphærella Viciæ** Schroet. Nord. Pilze p. 10. — Peritheciis  $300 \mu$ . 2489  
 lat., immersis, ostiolo nigro, brevi, verruciformi prominente; ascis

in quoque perithecio ultra 20, fasciculatis, cylindræo-fusoideis, breve stipitatis, 55-65  $\approx$  8-11; sporidiis distichis vel oblique monostichis, fusoideis, 13-15  $\approx$  4-5, bilocularibus, medio subconstrictis, utrinque angustato-rotundatis, hyalinis.

*Hab.* in caulibus vetustis Viciæ Craccæ, Mageerö, Schlucht in Nordcap Norvegiæ.

12. **Sphærella sordidula** Speg. Fungi Guar. Pug. I, n. 217. — Peritheciis hinc inde sparsis vel paucis laxè aggregatis, matrice circum circa pallescente vel albicante (ceterum sordide grisea) insidentibus, tectis, vix prominulis, ostiolo minuto, epidermidem perforante, exserto donatis, udis globulosis, siccis cupulato-collapsis, 80-100  $\mu$ . diam., atris, membranaceis, contextu parenchymatico, pellucide fuligineo, ostiolo subcarbonaceo, opaco; ascis ovatis v. obclavatis, crassis, apice obtuse rotundatis, basi abrupte, minute brevissimeque stipitatis, 30-35  $\approx$  12-15, aparaphysatis, 8-sporis; sporidiis di-tri-stichis, elliptico-elongatis, utrinque rotundatis, 12-14  $\approx$  4-5, medio 1-septatis, leniter constrictis, loculis 2-guttulatis, æqualibus v. supero vix majore, hyalinis.

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

13. **Sphærella baptisiæcola** (Cooke) Sacc., *Sphær. baptisiæcola* Cooke Grev. XI, pag. 110. — Tecta, punctiformis, caulicola; peritheciis tenuibus, minimis vix prominulis, tectis; ascis clavatis; sporidiis biserialibus, sublanceolatis, uniseptatis, hyalinis, 15  $\approx$  3,5.

*Hab.* in caulibus Baptisiæ leucanthæ, Aiken Carolina inf. Amer. bor. — Incertum an huc, an ad *Didymallam* pertineat species, nam Cookeus, more solito, de paraphysibus silet.

14. **Sphærella granulata** Ell. et Ev. in Journ. of Myc. 1886, p. 102. — Dense gregaria, maculas definite limitatas occupans; peritheciis minutis,  $\frac{1}{6}$  mm. diam., epidermide radiatim rupta et perithecia ostendente, non nigrescente tectis, atris, ostiolo papilliformi subprominulo donatis, nucleo albo farctis; ascis subcylindræis, circiter 70  $\approx$  7, subsessilibus, aparaphysatis, octosporis; sporidiis distichis, fusiformibus, vix curvulis, 20-23  $\approx$  3-3,5, hyalinis, primo granulosis, continuis, dein uniseptatis.

*Hab.* in caulibus emortuis Baptisiæ tinctoriæ, Newfield Amer. bor., socia *Sphærella baptisiæcola*.

15. **Sphærella leucophæa** Ellis et Kellerm. in Journ. of Myc. 1886, p. 3. — Peritheciis punctiformibus, minutis, 70-100  $\mu$ . diam., in parenchymate foliorum immersis, ostiolis perforatis, longiusculis;

ascis oblongis, sessilibus vel breviter pedicellatis, 75-80  $\approx$  7-8; paraphysibus nullis; sporidiis distichis, fusiformibus, 1-septatis, septo leniter constrictis, 18-20  $\approx$  3 $\frac{1}{2}$ , hyalinis.

*Hab.* in foliis emortuis *Baptisiæ leucophææ*, Manhattan, Kansas Amer. bor. — Certe a *Sph. baptisiæcola* distincta.

16. **Sphærella Astragali** Currey Linn. Trans. XXII, n. 362, Journ. of 2494  
Bot. 1883, p. 136. — Peritheciis sparsis, membranaceis, tectis, globosis, atrofusis, minutis, hic illic gregariis; ascis clavatis; sporidiis subfusiformibus, uniseptatis, hyalinis, 15-18  $\approx$  4.

*Hab.* in caulibus *Astragali*, in America arctica.

17. **Sphærella pinodes** (Berk. et Blox.) Niessl, Sacc. Syll. I, p. 514, Winter in Hedwigia 1885, pag. 20. — Perithecia numerosissima, dense sparsa, poro pertusa, tenuissime membranacea, sub microscopio fusca, 100-140  $\mu$ . diam.; asci oblongo-cylindracei, sessiles vel breviter stipitati, sæpe basi parum incrassati, 58-62  $\approx$  12; sporidia subdisticha, oblonga, utrinque parum attenuata, sæpe inæquilateralialia, 14-16  $\approx$  5.

18. **Sphærella calycicola** Pass. in Erb. Critt. It. Ser. II, n. 1462. — 2495  
Peritheciis solitariis v. gregariis, subglobosis, atris; ascis ovato-piriformibus, apice rotundatis, basi brevissime abrupteque stipitatis, 37-38  $\approx$  22; sporidiis triserialibus, oblongo-spathulatis, prope medium septatis, non constrictis, hyalinis, 20  $\approx$  5.

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

19. **Sphærella consociata** Rehm in Hedwigia 1885, p. 238. — Pe- 2496  
ritheciis plerumque gregariis, subimmersis vel sessilibus, globosis, in papillulam acutam protractis, haud perspicue perforatis, atris, glabris, 0,2-2,5 mm. diam., in parenchyma fuscum contextis; ascis ellipticis vel pseudo-piriformibus, latis, basi sessilibus, crassis, 8-sporis, 50-60  $\approx$  18-21; sporidiis 3-4-stichis, clavatis, subobtusis, 2-cellularibus, cellulis æqualiter longis, medio haud constrictis, rectis, hyalinis, 18-20  $\approx$  5; paraphysibus nullis.

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

20. **Sphærella nerviseda** Speg. — Sacc. Syll. I, p. 504 — var. **micro-** 2497  
**spora** Sacc. Misc. Myc. II, pag. 22. — Sporidiis clavulatis, quam in typo brevioribus, 10-12  $\approx$  4,5 in ascis clavulatis, 50  $\approx$  10, oblique monostichis.

*Hab.* in foliis emortuis *Orobi verni*, sociis spermogoniis

*Septoria orobicola* et *Phyllosticta orobella* pr. Neuchâtel Galliæ (MORTHER).

21. **Sphærella melanococca** (Lév.) Berl. et Sacc. Add. Syll. p. 406. 2498

*Sphæria melanococca* Lév. in Ann. Sc. Nat. 1863, p. 296. — Peritheciis epiphyllis, gregariis, discretis, erumpentibus, superficialibus, globosis, depressis, levibus, nigris, opacis, intus albis, ostioliis papillatis; paraphysibus raris, linearibus, continuis; ascis clavato-cylindræis, sporidiis octonis, ovato-elongatis, medio constrictis, bilocularibus, hyalinis.

*Hab.* ad folia *Stylosanthis guyanensis* in Nova Grana-ta (LINDIG).

22. **Sphærella Sesbanix** Ell. et Ev. Journ. Myc. 1888, pag. 98. — 2499

Dense gregaria, erumpens; peritheciis 80-100  $\mu$ . diam. pertusis; ascis 35-40  $\approx$  7-8, aparaphysatis; sporidiis distichis, oblongo-cylindræis, 1-septatis, haud constrictis, rectis, obtusulis, 10-12  $\approx$  3,5-4.

*Hab.* in caule emortuo *Sesbanix macrocarpæ*, Louisiana Amer. bor. (LANGLOIS). — Socium adest *Macrosporium* hyphis septatis tortuosis, conidiis oblongis, 2-3-septatis, muriformibus, opacis. Accedit ad *S. granulata*, sed sporidia multo minora.

23. **Sphærella Desmodii** Winter in Journ. of Myc. I, p. 121. — Peri- 2500

theciis epiphyllis, in maculis magnis, valde irregularibus, arescendo griseis fuscidulisve, margine obscuriori, determinato, varie flexuoso et sinuato circumdatis, gregariis, minutis, hemisphæricis, poro simplici pertusis, atris, 70-90  $\mu$ . diam.; ascis oblongo-cylindræis, sursum parum attenuatis, vertice rotundatis, sessilibus, 8-sporis, 35-40  $\approx$  6-7; sporidiis distichis, cymbiformibus vel fusoides, sæpe plus minusve curvatis, medio uniseptatis, sed non constrictis, hyalinis, 10,2-12  $\approx$  2,5-3,5.

*Hab.* ad folia viva *Desmodii canescentis*, Missouri.

24. **Sphærella Linhartiana** Niessl in Linhart Fungi Hungar. n. 461. 2501

— Peritheciis numerosissimis, dense disseminatis, epidermide innatis, globosis, ostiolo punctiformi, atris, 100-130  $\mu$ . diam.; ascis fasciculatis, clavatis, 45-60  $\approx$  9-12 et interdum ultra latis, 8-sporis; sporidiis distichis, oblongo-fusiformibus, sæpe curvatis, utrinque obtusis, medio uniseptatis sed vix constrictis, demum guttulis quaternis, hyalinis, 10-12  $\approx$  3-4.

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

25. **Sphærella nubigena** Speg. Rev. Myc. 14, pag. 79. — Peritheciis 2502  
hinc hinc laxè gregariis, minutis, 100-110  $\mu$ . diam., subepidermi-



cis, atris, membranaceis; contextu parenchymatico, olivaceo; ascis cylindraceo-clavatis, brevissime stipitatis, 55-60  $\approx$  8-10, octosporis, aparaphysatis; sporidiis distichis ovoideo-subclavulatis, utrinque rotundatis, 15-16  $\approx$  4, medio 1-septatis, non constrictis hyalinis.

*Hab.* in foliis emortuis Drabæ aizoidis in montibus prope Saint-Nigier Galliæ.

26. **Sphærella Passeriniana** Sacc. *Sphærella Cruciferarum* (Desm.?) 2503

Pass. in Erb. critt. it. Ser. II, n. 1279. — Peritheciis punctiformibus, minutissimis, sparsis, atris, epidermide velatis, interdum ostiolo acutiusculo erumpentibus, 100-150  $\mu$ . diam.; ascis ovatis sessilibus 42-45  $\approx$  20, 8-sporis; sporidiis 2-3-serialiter stipatis ovali-elongatis, utrinque obtusis, medio septatis, hyalinis, 15  $\approx$  5.

*Hab.* in caulibus et pedunculis aridis Rapi stri rugosi atque Erysimi officinalis, Vigheffio, Parma Ital. bor. (PASSERINI). — *Sphærella Cruciferarum* in Rabh. Fungi eur. n. 1852 habitu similis, sed asci multo minores et sporidia angustiora, fusiformia, apicibus acutis 2½  $\mu$ . lata, ideo species præsens diversa et aliter nuncupanda.

27. **Sphærella napicola** Fautrey Rev. Myc. 1890, p. 64. — Maculis 2504

magnis, indeterminatis, nigris; peritheciis numerosis, in maculis gregariis, extus sparsis, rotundatis, nigris; ascis ventricosis; sporidiis hyalinis, 1-septatis, 4-guttatis, loculo supero longiore et latiore, 18-28  $\approx$  4-6.

*Hab.* in caulibus siccis Brassicæ Napi var. oleiferæ, Noidan Côte-d'Or Galliæ.

28. **Sphærella pyrenaica** Speg. Rev. myc. 14, p. 78. — Peritheciis am- 2505

phigenis, globoso-lenticularibus, 90-100  $\mu$ . d, innato-erumpentibus, atris, submembranaceis, contextu parenchymatico, fuligineo; ascis cylindraceo-clavatis, breve stipitatis, 40-45  $\approx$  8, apice crassiuscule tunicatis, octosporis, aparaphysatis; sporidiis distichis, cylindraceo-ellipticis, utrinque obtusiuscule rotundatis, 15  $\approx$  3, medio 1-pseudo-septatis, non constrictis, hyalinis.

*Hab.* in foliis emortuis putrescentibus Petrocallidis pyrenaicæ in montibus prope Luchon Galliæ.

29. **Sphærella Cyparissia** Passer. Diagn. Fung. nuovi I, n. 29. — 2506

Peritheciis sparsis, epidermide tectis, dein vertice acutiusculo denudatis, subglobosis, atris; ascis obovatis, sessilibus, 8-sporis, 15-17  $\approx$  7,5-8; sporidiis subtristicho-stipitatis, oblongo-cuneatis, loculo altero brevior et angustior, 9-10  $\approx$  3, perfecte hyalinis.

*Hab.* in caule putri Euphorbiæ Cyparissia, Vigheffio

prope Parma. — *Sphærellæ Salicorniæ* affinis, sed ascis minoribus et sporidiorum forma et colore, satis diversa videtur.

30. **Sphærella Tithymali** Passer. Diagn. Funghi nuovi I, n. 30. — 2507

Peritheciis crebre sparsis, innato-erumpentibus, atris, ostiolo obtuso; ascis cylindricis, 8-sporis, 40-50  $\approx$  7,5-8; sporidiis distichis, fusiformibus, medio septatis, hyalinis, 12-15  $\approx$  2,5-3, intra ascos tantum visis.

*Hab.* in caule fracido Euphorbiæ Cyparissiæ, Fornovo in Prov. Parmensi.

31. **Sphærella Thesii** Schroet. Hedw. 1890, p. 59. — Peritheciis epi- 2508

dermide tectis, extus perspicuis, gregariis, depressis, 250-300  $\mu$ . lat., ostiolo plano, rotundo, pariete molli, nigro-brunneo; ascis in quoque perithecio numerosis, cylindræis, breviter stipitatis, apice rotundatis, 40-50  $\approx$  8-10, octosporis; sporidiis distichis, fusoidæis, deorsum magis attenuatis, utrinque rotundatis, medio non constrictis, 12-13  $\approx$  4-5, hyalinis.

*Hab.* in Thesio intermedio in Torpcider prope Belgrad Serbiæ.

32. **Sphærella tabifica** Prill. et Delacr. Bull. Soc. Myc. 1891, p. 24, 2509

t. III, f. II. — Peritheciis rotundis, fuscis, erumpentibus, 150  $\mu$ . lat., poro papillato 35  $\mu$ . lat. præditis; ascis oblongo-clavatis, obtuse stipitatis, 60  $\approx$  12, aparaphysatis; sporidiis hyalinis, didymis, loculo superiore ovato-rotundato, inferiore angustiore, leviter attenuato, septo unico infra medium constrictis, distichis, granulato-guttulatis, 21  $\approx$  7,5.

*Hab.* in petiolis late albo-maculatis Betæ vulgaris cultæ, socia *Phyllosticta tabifica* ejus verisimiliter pycnidio in Mondonbleau, Loir-et-Cher Galliæ.

33. **Sphærella parasitica** Fautrey Rev. Myc. 1890, p. 64. — Ascis 2510

cylindræis, 4-6-8-sporis, 45-60  $\approx$  4-6, aparaphysatis; sporidiis distichis, inæquilateralibus, 1-septatis, pluriguttatis, 20-25  $\approx$  5-7.

*Hab.* in areis *Pucciniæ Malvacearum* ad folia Alceæ roseæ ad Noidan Côte-d'Or Galliæ.

34. **Sphærella Saxifragæ** Pass. Diagn. F. nuovi I, n. 19 (1887, 9 Jan.). 2511

— Peritheciis epiphyllis, sparsis vel subgregariis, globosis, velatis, atris; ascis oblongo-clavatis, 50  $\approx$  15, 8-sporis; sporidiis subdistichis vel inordinatis, oblongo-spathulatis, medio septatis, non constrictis, hyalinis, 22,5  $\approx$  5, endoplasmate opaco granuloso.

*Hab.* in foliis emortuis Saxifragæ muscoidis in Colle del Gries Pedemontii.

35. **Sphærella olenjana** Sacc. *S. Saxifragæ* Karst. Symb. XIX. p. 87 2512  
(1887, 5 Mart.) nec Pass. — Peritheciis epiphyllis, raro hypophyllis, sparsis aut maculæ nigrescenti gregatim insidentibus, erumpenti-superficialibus, sphæroideo-conoideis, poro pertusis, atris, exiguis; ascis sessilibus, oblique ovoideo-elongatis, 40-66  $\approx$  15-18, 8-sporis; sporidiis ovoideo-elongatis, medio septatis, haud constrictis, chlorino-hyalinis, 24-28  $\approx$  6-7.

*Hab.* in foliis languescentibus *Saxifragæ rivularis* prope Olenji maris albi in Fennia.

36. **Sphærella ushuvaiensis** Speg. F. Fueg. n. 204. — Maculis nullis, 2513  
peritheciis sparsis, epidermide velatis, lenticularibus, 90-100  $\mu$ . d., atris glabris coriaceis, opacis, contextu tantum in parte infera distincte majusculæque parenchymatico fuligineo, ostiolo minuto pertusis; ascis cylindræo-obclavatis, antice obtuse rotundatis vel subtruncato-rotundatis subcrassiuscule tunicatis, non vel vix 1-foveolatis, postice attenuato-rotundatis, 28-32  $\approx$  5, stipite breviusculo crassiusculoque suffultis, octosporis, aparaphysatis; sporidiis cylindræo-subclavulatis, utrinque acutis sed obtuse rotundatis, 7-9  $\approx$  2, medio 1-septatis leniter constrictis, loculis minute 2-guttulatis, supero vix crassiore, hyalinis.

*Hab.* in caulibus emortuis aridis *Galii antarctici* prope Ushuvaia Fuegiæ.

37. **Sphærella Resedæ** Pass. Diagn. Fungi Nuovi III, n. 7. — Peri- 2514  
theciis gregariis matricem infusantibus, globoso-conoideis prominulis; ascis clavatis vel obclavatis aut gibbis, basi ventricosis, 45-62  $\approx$  15-20, 8-sporis; sporidiis bi-tristichis, oblongis vel oblongo-cuneatis, medio septatis non constrictis hyalinis, 15-18  $\approx$  5.

*Hab.* in caulibus putridis *Resedæ luteolæ*, Vigheffio prope Parma. — Fructificatione ad *S. carpogenam* accedit, sed peritheciis crassioribus infusantibus distinguenda.

38. **Sphærella asterinoides** Ell. et Ev. Journ. Myc. 1888, p. 98. — 2515  
Peritheciis sparsis, lenticularibus, latiuscule pertusis, prominulis, tectis, basi matrice immersis, mycelio ramoso brunneo plus minus distincte cinctis; ascis aparaphysatis, tereti-clavatis, basi breviter angustatis, 80-90  $\approx$  18-20; sporidiis stipatis, acute ellipsoideis, 1-septatis constrictisque, cellula sup. crassiori, fumose hyalinis, 22-28  $\approx$  8-10.

*Hab.* in caule emortuo *Dipsaci*, Clyde N. Y. Amer. bor. (O. F. Cook).

39. **Sphærella xanthicola** Cooke et Harkn. in *Grevillea* XIV, p. 8. 2516

— Peritheciis punctiformibus, prominulis, atris, in maculas ellipticas congestis, initio epidermide tenui velatis; ascis obclavatis, sessilibus, octosporis; sporidiis ellipticis, uniseptatis, vix constrictis, utrinque rotundatis, hyalinis, 12-15  $\approx$  5-6.

*Hab.* in caulibus *Xanthii* in California (HARKNESS).

40. **Sphærella nebulosa** (Pers.) Sacc. Syll. I, pag. 515, var. **Hieracii** 2517

Sacc. et Briard in Rev. Myc. 1885. — Peritheciis numerosis, minutis  $\frac{1}{7}$ - $\frac{1}{6}$  mm. diam., in maculis griseis sparsis vel gregariis; ostiolis prominulis; ascis sessilibus, octosporis, 40-52  $\approx$  10-12; sporidiis oblongis, subclavæformibus, apice parum attenuatis, uniseptatis, loculo superiore majore, 16-20  $\approx$  4-4,5, hyalinis.

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

41. **Sphærella Hieracii** Cooke et Mass. Grev. XV, p. 111. — Peri- 2518

theciis sparsis, epiphyllis, punctiformibus, subconicis, basi immersis; ascis clavatis; sporidiis uniseriatis vel partim biseriatis, ellipsoideo-lanceolatis, apicibus obtusis, 1-septatis, non constrictis, hyalinis, initio 2-nucleatis.

*Hab.* in foliis subsiccis *Hieracii* *Pilosellæ*, Tunbridge Wells Britanniæ (E. G. BAKER).

42. **Sphærella solidaginea** E. et K. Journ. Myc. 1887, p. 127. — Pe- 2519

ritheciis erumpenti-superficialibus, 80-100  $\mu$ . diam., subglobosis, laxiuscule parenchymaticis, supra pertusis, sparsis vel gregariis; ascis 35  $\approx$  9-10; sporidiis distichis, clavato-oblongis, guttulatis, pr. medium subconstrictis, hyalinis, 20  $\approx$  3,5.

*Hab.* in foliis emortuis *Solidagineis* *canadensis*, Manhattan Amer. bor. (KELLERMAN et SWINGLE).

43. **Sphærella maculicola** Wint. in Hedwigia 1885. — Peritheciis 2520

gregariis in macula determinata, irregulari, pallide fusca, linea obscuriori limitata epiphyllis, immersis, globosis, membranaceis, atris, poro pertusis, 100  $\mu$ . latis; ascis elongato-oblongis, fere fu-

siformibus, h. e. utrinque longe attenuatis, substipitatis, 8-sporis, 50-60  $\approx$  9-12; sporidiis conglobatis, elongato-subclavatis, utrinque attenuatis et rotundatis, medio uniseptatis, sed non constrictis, 14-16  $\approx$  3,5 hyalinis.

*Hab.* ad folia Helichrysi (an petiolati? vel nudifolii?) Somerset-East, Promont. Bonæ Spei (MAC OWAN).

44. **Sphærella Ritro** Pass. Diagn. F. nuovi I, n. 23. — Peritheciis 2521  
sparsis, tectis, subglobosis; ascis ex ovata basi superne attenuatis, 8-sporis; sporidiis tristichis vel conglobatis, oblongis, hyalinis, 10-15  $\approx$  3-5.

*Hab.* in caule putrescente Echinopis Ritro, Vigheffio pr. Parma. — A *Sphærella Compositarum* ascis sporidiisque multo minoribus, et a *Sphærella Jurineæ* ascorum forma distinguenda.

45. **Sphærella aliena** Pass. in Erb. cr. it. ser. II, n. 1278. — Peri- 2522  
theciis sparsis epidermide velatis, subglobosis, atris, 75-100  $\mu$ . diam.; ascis brevibus, clavatis, curvulis sessilibus, 30-37  $\approx$  7-8; sporidiis subdistichis vel oblique monostichis, oblongis, hinc paullum attenuatis, medio tenuissime septatis, hyalinis, 15  $\approx$  3-3 $\frac{1}{2}$ .

*Hab.* in summo caule arido Centaureæ nigrescentis, Collecchio Parma (G. PASSERINI). — A *Sphærella Compositarum* Auersw. plane diversa.

46. **Sphærella majuscula** Cooke Journ. of Bot. 1883, p. 138. — Epi- 2523  
phylla, gregaria sparsave, sæpe maculæformis; peritheciis majusculis, globosis, atris, semiinnatis, prominulis; ostiolo punctiformi; ascis cylindrico-clavatis; sporidiis arcte ellipticis, uniseptatis, loculo inferiore leviter tenuiore, 12  $\approx$  3.

*Hab.* in foliis emortuis Senecionis rotundifolii, Stewart Island Novæ Zelandiæ (KIRK).

47. **Sphærella hypericina** Ellis Bull. Torr. Bot. Club. IX, p. 74. — 2524  
Amphigena; peritheciis exiguis, erumpentibus, hinc illinc 2-6-aggregatis; ascis oblongis; sporidiis inordinatis, clavato-oblongis, uniseptatis, plerumque curvulis, hyalinis, 10  $\approx$  3.

*Hab.* in foliis Hyperici prolifici in Amer. bor. (ELLIS).

48. **Sphærella tingens** Niessl in Hedw. 1883, p. 13. — Sparsa vel 2525  
subgregaria, matricem rubro vel roseo tingens; peritheciis minutissimis,  $\frac{1}{10}$  mm. diam., tectis globosis, membranaceis, fuscis, ostiolo punctiformi; ascis fasciculatis, clavatis, 49-50  $\approx$  12-15, sessilibus octosporis; sporidiis stipatis, cuneato-cylindræis, subrectis, inferne leniter angustatis sed utrinque rotundatis, medio 1-septatis, 4-guttulatis, hyalinis, 16-19  $\approx$  4.

*Hab.* in foliis vivis Arenariæ ciliatæ, Albulapass Helvetiæ (WINTER). — Maculâ rubellâ matricali mox inter Sphærellas dignoscenda species.

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

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

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

*Hab.* in foliis Arenariæ norvegicæ in insula Islandia.

51. **Sphærella Alsines** Pass. Diagn. F. nuovi I, n. 10. — Peritheciis crebre sparsis, punctiformibus, atris, ostiolo acutiusculo, contextu celluloso, fuligineo; ascis aparaphysatis, obovato-piriformibus vel gibbis, basi acutis, sessilibus, 8-sporis, 45  $\approx$  17-20; sporidiis tristichis vel conglobatis, oblongis, medio septatis, non constrictis, utrinque rotundatis, loculo altero paullo longiore et angustiore, 15-17  $\approx$  5.

*Hab.* in foliis inferioribus aridis Alsines laricifoliæ in M. Prinzerâ prov. Parma.

52. **Sphærella Caryophylli** Pass. Diagn. F. nuov. I, n. 12. — Peritheciis sparsis vel subgregariis, minimis, ostiolo acuto, atris, nitidis, cellulis ampliusculis fuligineis contextis; ascis oblongo-clavatis, 8-sporis, 60-75  $\approx$  15; sporidiis cuneiformibus, ad septum non constrictis, 12,5-15  $\approx$  3,5, hyalinis.

*Hab.* in vaginis siccis Dianthi Caryophylli et in bracteis foliisque siccis Dianthi proliferi, Vigheffio pr. Parma.

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

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

54. **Sphærella Octopetalæ** Oudem. Contr. à la Flore myc. de No- 2531  
waja Semlja p. 14, t. I, f. 14. — Peritheciis epiphyllis, subgregariis, minutissimis 50  $\mu$ . diam., atris, absque ullo macularum vestigio, parte basilari in foliorum parenchymate absconditis, apicali vero supra epidermidem prominente, e parenchymate laxo, fusciscenti-nigro contextis; ascis maturis, 70-80  $\approx$  25, membrana sursum præsertim gelatinoso-incrassatis, 8-sporis, paraphysibus deficientibus; sporidiis hyalinis, di-vel tri-stichis, oblongo-obovatis, 21  $\approx$  7, septatis, ad septum levissime constrictis, parte dimidia antica latiore, subhemisphærica, circa 9  $\mu$ ., postica paululum angustiore, magis oblonga, circa 12  $\mu$ . longa.

*Hab.* in foliis Dryadis octopetalæ, Nowaja Semlja.

55. **Sphærella fuegiana** Speg. F. Fueg. n. 197. — Maculis nullis; 2532  
peritheciis hypophyllis, sparsis, lenticularibus, 90-100, atris glaberrimis, membranaceo-coriacellis, contextu dense parenchymatico olivaceo; ascis cylindræo-obclavatis, apice rotundato-subtruncatis crasse tunicatis non vel vix 1-foveolatis, basi abrupte minuteque coarctato-stipitatis, 30-40  $\approx$  8-10, octosporis, aparaphysatis; sporidiis elliptico-obovatis, utrinque obtusiusculis, 7,5-8,5  $\approx$  3-4, loculo supero nonnihil crassiore brevioraque, hyalinis.

*Hab.* ad folia Acænæ adscendentis languida rarissime in Shammacus Fuegiæ.

56. **Sphærella Potentillæ** Oudem. Contr. à la Flore myc. de No- 2533  
waja Semlja p. 15, t. I, f. 15. — Peritheciis in foliis aridiis hospitantibus.....; ascis inæquilateralibus, oblongo-clavatis, aparaphysatis, 70-80  $\approx$  14, membrana ubique æquali, vulgo 20 in eodem perithecio; sporidiis distichis, rectis, hyalinis, oblongo-obovatis, 1-septatis, 18-23  $\approx$  5-7, parte dimidia anteriore latiore, rotundata, posteriore multo angustiore, ad altitudinem septi paululum constrictis.

*Hab.* in foliis aridis Potentillæ fragiformis, Nowaja Semlja

57. **Sphærella Earliana** Winter in Journ. of Myc. pag. 101. — Pe- 2534  
ritheciis amphigenis, densissime stipatis, greges parvos, angulato-rotundatos, 1-2 mm. latos, nigros formantibus, minutissimis, globosis, poro simplici pertusis, atris, 60-70  $\mu$ . diam.; ascis fasciculatis e basi subventricosa sursum parum attenuatis, brevissime stipitatis, 8-sporis, 26-30  $\approx$  7; sporidiis inordinatis clavatis, medio uniseptatis, non constrictis, hyalinis, 8  $\approx$  2; paraphysibus nullis.

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

58. **Sphærella Serpylli** Pass. Diagn. Funghi nuovi, I, n. 26. — Peritheciis minimis, superficialibus, globosis, solitariis vel subgregariis atris; ascis oblongis, subsessilibus, basi plus minus inflatis v. gibbis, octosporis,  $37-45 \approx 10-12$ ; sporidiis distichis vel inordinatis, oblongis, medio septatis et leniter constrictis, hyalinis, endoplasmate granuloso opaco,  $15-20 \approx 5-7$ . 2535

*Hab.* in calycibus siccis Thymi Serpylli, Vigheffio prope Parma. — A *Sphærella calycicola* cui affinis, characteribus alatis videtur distinguenda.

59. **Sphærella Pectinis** Pass. Diagn. F. nuov. III, n. 9. — Peritheciis in matrice fuscescente crebre sparsis, punctiformibus, atris, ostiolo acutiusculo; ascis ovatis, basi abrupte breviter stipitatis, 8-sporis,  $40-42 \approx 12,5-15$ ; sporidiis stipatis oblongis, utrinque rotundatis, medio septatis,  $12,5 \approx 5$ . 2536

*Hab.* in fructibus dejectis Scandicis Pectinis-Veneris, Tornovo in prov. Parmensi.

60. **Sphærella Eryngii** (Fr.) Cooke Handb. n. 2761, Sacc. Syll. I, p. 511, Winter in Hedwigia 1886, p. 19. — Asci  $40-44 \approx 7$ ; sporidia cylindrico-fusiformia,  $19-21 \approx 2,5$ .

61. **Sphærella Pachypleuri** Fuck. in Heuglin Reisen Nordpol. vol. III et Oudemans Contr. Flor. Myc. Nov. Seml. pag. 6, t. II, f. 2. — Peritheciis gregariis sparsisve, minutis, aterrimis, semiliberis, e basi globosa antice obtuse conicis, ostiolis demum perforatis; ascis fasciculatis, oblongis, sessilibus, 8-sporis,  $52 \approx 10$ ; sporidiis distichis, oblongo-subclavatis, rectis, inæqualiter didymis, loculis guttulatis, hyalinis,  $16 \approx 4$ ; spermatii inter ascos in sporophoris brevioribus ortis, anguste fusiformibus, curvatis, 2-4-guttulatis seu obscure 2-3-septatis, antice abrupte ciliatis, cilio spermatii dimidiam partem superante,  $24 \approx 2$ . 2537

*Hab.* in Pachypleuro alpino exsiccato in insula Nowaja Semlja.

62. **Sphærella patagonica** Speg. F. Pat. n. 124. — Maculis nullis sed toto folio ex albo griseo-arescente; peritheciis sparsis v. hinc inde laxè aggregatis, subepidermicis, minutis, lenticulari-globosis,  $70-90 \mu$ . diam., tenuissime membranacæis, grosse parenchymatico-cellulosis, ostiolo rotundo perforatis; ascis e globoso ovatis, apice subacutato-rotundatis crassissimeque tunicatis, basi stipite crasso brevissimo (vix evoluto) suffultis,  $20 \approx 16$ , octosporis, aparaphysatis; sporidiis inordinate polystichis, elliptico-clavulatis, utrinque obtusiuscule rotundatis,  $8-9 \approx 2-3$ , medio 1-septatis, non vel vix 3538



subconstrictis, loculo supero nonnihil crassiore brevioraque, hyalinis.

*Hab.* ad folia exsiccata emarcida Bolacis glebariæ in Gregory bay Patagoniæ.

63. **Sphærella brionnensis** Sacc. et Malbr. Fung. Gall. Ser. V, n. 2159. 2539

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

*Hab.* in foliis arescentibus Angelicæ silvestris, Brionne Eure Galliæ.

64. **Sphærella adusta** Fuck. in Reis. nach Nordpolarmeer et Oud. 2540

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

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

65. **Sphærella Œnotheræ** Ell. et Ev. in Journ. of Myc. 1885, p. 151. 2541

— Peritheciis erumpentibus, hemisphæricis, 90-100  $\mu$ . diam., sursum late pertusis, dense gregariis et sæpe in series latas in valvis capsularum dispositis; ascis oblongis, sursum leniter attenuatis, basi abrupte contractis atque in pedicellum breve desinentibus; sporidiis distichis, forma variis, oblongis vel ovato-oblongis, 10-15  $\approx$  3, nucleatis vel oblongo-fusiformibus, vix curvulis, obscure 1-septatis, 15-20  $\approx$  3-3,5.

*Hab.* in capsulis Œnotheræ biennis, Newfield Amer. bor.

66. **Sphærella depazeæformis** (Auersw.) Sacc. Syll. I, p. 513, Winter

in Hedwigia 1886, p. 20. — Huc ducenda sec. Winter (Hedw. l. c.)

*Læstadia Oxalidis* (Rabenh.) Sacc. Syll. I, p. 429, n. 1635.

67. **Sphærella Clematidis** Oud. Contr. Fl. Myc. Pays-Bas XI, p. 21. 2542

— Peritheciis sub epidermide nidulantibus, dense sparsis, maturis atris, poro minuto pertusis,  $\frac{1}{10}$  mm. latis, parenchymatico-membranaceis; ascis clavatis, paullum curvatis, 60-70  $\approx$  14; sporidiis

hyalinis, utrinque obtusissimis, prope medium 1-septatis, 14  $\approx$  5 tristichis (?).

*Hab.* in caulibus Aristolochiæ Clematitis, prope Harlem Hollandiæ.

68. **Sphærella intermixta** Niessl in Hedw. 1882, p. 112. — Peritheciis <sup>2543</sup> gregariis, minutissimis, circa 150  $\mu$ . diam., ostiolo punctiformi, membranaceis, atris, glabris, nitidis; ascis numerosis, cylindræis, clavatis, stipite brevi, 40-50  $\approx$  8-9, 8-sporis; sporidiis distichis, cuneatis, superne late rotundatis, inferne attenuatis, rectis vel parum curvatis, medio uniseptatis, hyalinis, 9-12  $\approx$  3.

*Hab.* in foliis subsiccis Campanulæ Zoysii in alpinis Carniolæ (Voss).

69. **Sphærella Cyananthi** Pat. in Rev. Myc. 1886, p. 180. — Peri- <sup>2544</sup> theciis minutis, numerosis, nigris vel brunneo-rufis; ascis ovoideis, 33  $\approx$  20, sessilibus; sporidiis uniseptatis, hyalinis, 13  $\approx$  5, demum viridulis, uno apice attenuatis.

*Hab.* in caulibus emortuis Cyananthi, Yunnan Sinarum (AB. DELAVAY).

70. **Sphærella Euphrasiæ** Pass. Diagn. Funghi nuovi, I, n. 25. — Pe- <sup>2545</sup> ritheciis minutis, sparsis, lenticularibus, fuscis, primo tectis, dein per epidermidem fissam emersis, nucleo albo farctis; ascis brevibus, subcylindricis, basi breviter angustatis, circiter 47-50  $\approx$  12-13, 8-sporis; sporidiis subdistichis, oblongis, didymis, leniter constrictis, loculis inæqualibus, altero subcuneato angustiore, 12,5-15  $\approx$  6-7,5, hyalinis.

*Hab.* in caulibus siccis Euphrasiæ luteæ in alveo Bagazza, Vigheffio prope Parma.

71. **Sphærella phlogina** Ell. et Ev. Journ. Myc. 1888, p. 65. — Pe- <sup>2546</sup> ritheciis sparsis, erumpenti-superficialibus, conico-hemisphæricis,  $\frac{1}{6}$  mm. diam., epiphyllis; ascis ovato-oblongis, 65-75  $\approx$  20-22, apapophysatis; sporidiis clavato-oblongis, 1-septatis leniter constrictis, utrinque rotundatis, flavido-hyalinis, plurinucleatis, 20-30  $\approx$  7-9.

*Hab.* in foliis emortuis Phlogis longifoliæ, Belt Mts. Montana Amer. bor. (ANDERSON). — Affinis *S. Stellarinearum*.

72. **Sphærella Mariæ** Sacc. et Bomn. in Bull. Soc. R. Bot. Belg. <sup>2547</sup> 1886, p. 173. — Peritheciis innatis, sparsis, numerosissimis, nigris, epiphyllis, prominentibus, 90-120  $\mu$ . diam.; ascis cylindraceo-claviformibus; sporidiis distichis, hyalinis, elongatis, uniseptatis, loculis inæqualibus, 4-guttulatis, ad septum constrictis 14-18  $\approx$  4,5-5.

*Hab.* in foliis emortuis *Digitalis luteæ*, Hastières Belgii.

— Affinis *Sph. silvaticæ*.

73. **Sphærella ciliata** Ell. et Ev. Proc. Phil. 1890, p. 231. — Peri- 2548  
theciis subglobosis, 150  $\mu$ . diam., epidermide tectis, sed matrice  
haud immersis, ostiolo papillato; ascis clavato-cylindræis, 40  $\approx$  7;  
sporidiis biseriatis, clavato-oblongis, hyalinis, 1-septatis, constri-  
ctisque, 10-13  $\approx$  3.

*Hab.* in caulibus emortuis *Steironematis ciliati*, London  
Canada Amer. bor. (DEARNESS).

74. **Sphærella magellanica** Speg. F. Pat. n. 125. — Maculis nullis 2549  
sed matrice tota sordide griseo-arescente; peritheciis hinc inde spar-  
sis, subepidermicis, globuloso-lenticularibus, 120-130  $\mu$ . diam., pro-  
minulis, atris, glabris, ostiolo rotundo donatis, membranaceis, con-  
textu parenchymatico, minute celluloso, atro-fuligineo; ascis cy-  
lindræis vel cylindræo-obclavatis, subpachydermaticis, apice sub-  
truncato-rotundatis, basi abrupte in stipitem brevissimum nodulo-  
sum productis, 48-55  $\approx$  10-15, octosporis, aparaphysatis; sporidiis  
recte di-tri-stichis, elliptico-clavulatis, utrinque plus minusve ob-  
tuse rotundatis 15-17  $\approx$  5-6, medio 1-septatis leniterque constri-  
ctis, loculo supero nonnihil crassiore, brevior acutioreque, hyalinis.

*Hab.* in scapis dejectis putrescentibus *Armeriæ andinæ* pr.  
Gregory bay Patagoniæ.

75. **Sphærella syciicola** Ell. et Ev. Journ. Myc. 1887, p. 45. — Ma- 2550  
culis amphigenis, minutis, 1-2 mm. diam., sordide albis, suborbi-  
cularibus vel partim venulis foliorum limitatis, centro tenuibus et  
translucidis; peritheciis paucis, 1-3, sæpius uno tantum in centro  
maculæ, epiphyllis, nigro-nitidulis, 100  $\mu$ . diam., sublenticularibus,  
latiuscule perforatis, grosse cellulosis; ascis tereti-oblongis, 40-  
50  $\approx$  6-7, sessilibus; sporidiis biseriatis, ovato-oblongis, hyalinis,  
1-septatis leniterque constrictis, 8-10  $\approx$  3-3,5, utrinque rotundatis  
vel subacutis.

*Hab.* in foliis vivis *Sycii angulatæ*, Missouri Amer. bor.  
(GALLOWAY).

76. **Sphærella Belladonnæ** Br. et Har. Rev. Myc. 1891, p. 15. — Ma- 2551  
culis albis, oblongis, irregularibus, ambitu angulosis, usque ad 3-7  
mm. diam., brunneo-cinctis; peritheciis epiphyllis, innatis, subepi-  
dermicis, sparsis, plus minus adproximatis, punctiformibus, brun-  
neis, 200-250  $\mu$ . diam.; ascis cylindræo-clavatis, breviter pedi-  
cellatis, 8-sporis, 52-60  $\approx$  12-14, p. sp.; sporidiis distichis, ellipsoi-

deo-fusoideis, obtusiusculis, 1-septatis, ad septum constrictis, loculis subæqualibus, hyalinis, 20-24  $\times$  6-8.

*Hab.* in foliis vivis *Atropæ Belladonnæ*, Pont-sur-Seine, Aube Galliæ (P. HARIOT).

77. **Sphærella Gunneræ** Speg. F. Fueg. n. 198. — Maculis nullis v. 2552  
pallescentibus, indeterminatis; peritheciis epiphyllis, sparsis, immerso-prominulis, e conico lenticularibus, 80-90  $\mu$ . diam., glabris, atris, coriacellis, contextu atro indistincto, ostiolo minuto perforatis; ascis cylindræo-clavatis, sessilibus, antice rotundatis, tenue tunicatis, postice attenuato-rotundatis, 45  $\approx$  9, octosporis, aparaphysatis; sporidiis elliptico-subclavulatis, utrinque obtusiusculis, 8-9  $\times$  3, medio septatis, non constrictis, hyalinis.

*Hab.* ad folia viva vel languida *Gunneræ lobatæ* in pratis uliginosis, Basket island Fuegiæ.

78. **Sphærella Pirolæ** Rost. Fungi Groenl. p. 551. — Peritheciis am- 2553  
phigenis in maculis rufescentibus, subzonatis, magnis, prominulis; ascis cylindræo-clavatis, 50-60  $\times$  8-10; sporidiis oblongo-fusoideis, 15  $\approx$  4.

*Hab.* in foliis vivis *Pirolæ grandifloræ* in Groenlandia.

79. **Sphærella Deschmannii** Voss Mycol. Carn. III, p. 156. — Maculis 2554  
flavis vel rubris, rotundato-ellipticis, difformibus, circ. 5-10 mm. diam. vel 10-20 mm. long., 10 lat., interdum effusis et foliis magnam partem occupantibus; peritheciis dense gregariis, sessilibus, punctiformibus, globosis, parenchymatico-contextis, atris; ascis fasciculatis, cylindræis vel anguste fusoideis, in stipitem brevem productis, apice rotundatis, 4-8-sporis, 30-35  $\approx$  6-11; sporidiis inordinate tristichis, fusoideis, utrinque rotundatis, rectis vel curvulis, didymis, medio non constrictis, loculo superiori parum latiore, guttulatis, demum hyalinis, 21-23  $\approx$  3.

*Hab.* ad folia arida *Gentianæ Pneumonanthi* in Carniolia super.

80. **Sphærella Ebuli** Rich. Cat. Champ. Marn. n. 1221. — Peritheciis 2555  
sparsis, epidermidem subgriseam reddentibus; ascis clavatis; sporidiis 1-septatis, ad septum subconstrictis.

*Hab.* in caulibus emortuis *Sambuci Ebuli* in Aulnay-l'Âitre, Lisse etc., Marne Galliæ.

81. **Sphærella Alyxiæ** C. et M. Grev. XVI, p. 5. — Amphigena; pe- 2556  
ritheciis gregariis, innatis, subglobosis, epidermide denigrata tectis, demum collabascentibus; ascis clavato-cylindræis, octosporis; sporidiis lanceolatis, uniseptatis, hyalinis, 25  $\approx$  7.

*Hab.* in foliis emortuis *Alyxiæ buxifoliæ*, Brighton Victoria Australiæ (F. CAMPBELL).

82. **Sphærella pândurata** Ell. et Ev. in Bull. Torr. bot. Club. 1883, 2557  
p. 117. — Hypophylla; peritheciis globosis, 0,17-0,25 mm. diam., parenchymate foliorum immersis, ostiolo papilliformi minuto, epidermide nigriscente tecto, rotundato, prominulis; ascis oblongo-cylindræis,  $50 \approx 7$ ; sporidiis distichis, fusiformibus, 4-nucleatis, flaveolis, medio constrictis, loculis ad septum turgidioribus,  $10-12 \approx 3$ .

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

83. **Sphærella analoga** Sacc. et Paol. Myc. Malac. n. 103, t. II, f. 3. — 2558  
Maculis amphigenis sed distinctius epiphyllis, inæqualiter circularibus, albis, anguste fusco-marginatis; peritheciis epiphyllis, lenticularibus, punctiformibus, minute pertusis, 100  $\mu$ . diam.; ascis oblongis, brevissime apiculato-stipitatis, apice obtuse attenuatis crasseque tunicatis,  $50 \approx 15$ , 8-sporis; sporis di-tristichis, oblongo-tetretibus, apice rotundatis, deorsum leniter attenuatis, uniseptatis, vix constrictis,  $15-16 \approx 3$ .

*Hab.* in foliis languidis ignotis (ovatis, coriaceis, subintegris, myrtoideis), Malaca (SCORTECHINI).

84. **Sphærella cyclogena** Sacc. et Paol. Myc. Malac. n. 103, t. II, f. 2. — 2559  
Maculis amphigenis, circularibus, pallide rufo-ochraceis, 2-3 mm. diam., anguste fusco-cinctis; peritheciis laxè gregariis, punctiformibus, lenticularibus, atris, pertusis, 100-120  $\mu$ . diam.; ascis fusoides, sæpe curvulis,  $70 \approx 11-12$ , aparaphysatis, octosporis; sporidiis distichis, oblongis, utrinque obtusiusculis, uniseptatis non constrictis, 4-guttulatis, hyalinis.

*Hab.* in foliis languidis plantæ ignotæ (caule quadrangulari, spinis axillaribus, foliis oppositis, amplis simplicibus), Malaca (SCORTECHINI). — Maculis eumorphis fulvis distincta.

## II. Arboricolæ.

85. **Sphærella Cercidis** Pass. in Erb. Critt. Ital. Ser. II, n. 1463. — 2560  
Peritheciis hypophyllis, sparsis vel laxè gregariis, punctiformibus, tectis dein denudatis, atris; ascis forma et longitudine variis, cylindricis, clavatis aut medio ventricosis; sporidiis oblongo-cuneatis, medio tenuissime septatis, vix vel minime constrictis,  $17-20 \approx 7\frac{1}{2}$ .

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

86. **Sphærella vesicaria** Pass. in Erb. Critt. It. Ser. II, n. 1367. — 2561  
Peritheciis superficialibus, sparsis vel subgregariis, subglobosis,

atris, ostiolo papillari, cellulis amplis, fuscis contextis; ascis oblongis, basi saccatis, breviter et abrupte stipitatis, superne attenuatis,  $75 \approx 25$ ; sporidiis subtristichis oblongis, medio septatis, non vel vix constrictis, loculo altero leniter attenuato, hyalinis,  $17,5 \approx 7,5$ .

*Hab.* in leguminibus aridis Coluteæ arborescentis, Parma Italiæ borealis.

87. **Sphærella Sophoræ** Winter Contr. Fl. Myc. Lus. V, pag. 13. — 2562

Peritheciis in macula pallida, exarida, fusco-atrocincta, 2-5 mm. lata, rotundata, amphigena immersis, ostiolo punctiformi perforatis, globosis, fuscis, 90-110  $\mu$ . diam.; ascis elongato-oblongis, sessilibus, sursum vix attenuatis, rotundatis, 8-sporis, 56-68  $\approx$  15-16; sporidiis subdistichis, oblongis, didymis, hyalinis, medio profunde constrictis, inæquilateralibus, cellula superiori latiori, guttulatis, 15-17  $\approx$  7-8.

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

88. **Sphærella Macowiana** Winter Ex. Pilze p. 9, in Flora 1884. — 2563

Peritheciis densissime gregariis, greges forma varia, a nervis limitatos, maculiformes, cinereos, angulatos formantibus, minutissimis, valde prominentibus, globosis, atris, ostiolo punctiformi, 70  $\mu$ . diam.; ascis oblongo-cylindræis, interdum deorsum parum inflatis, sessilibus, 8-sporis, 35-44  $\approx$  9-11; sporidiis distichis, oblongis, utrinque parum attenuatis, uniseptatis, ad septum vix constrictis, sæpe inæquilateralibus et parum curvatis, hyalinis, 12-14  $\approx$  3,5.

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

89. **Sphærella Hesperidum** Penz. et Sacc. Contr. Fungh. agrum II, 2564

p. 12. — Peritheciis laxè aggregatis, amphigenis, primum epidermide velatis, dein prorumpentibus, in arida foliorum macula insidentibus, subglobosis, aterrimis, 130-160  $\mu$ . d.; ascis clavatis, subsessilibus, apice truncatis, crasse tunicatis, 50-70  $\approx$  14-16, octosporis; sporidiis distichis, fusoides, 16-18  $\approx$  4-5, uniseptatis, medio haud constrictis, hyalinis.

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

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

91. **Sphærella curva** Karst. in Hedw. 1883, n. 12, p. 3, Rev. atque 2565

Synop. Ascom. fenn. p. 65. — Peritheciis?; ascis oblongatis, curvulis, infra medium inæqualiter inflatis 46  $\approx$  14; sporidiis ovoideo-

oblongatis, uniseptatis, ad septum leviter constrictis, rectis, dilute luteolis, 12,  $\times$  4-5.

*Hab.* in foliis emortuis Ribis alpini ad Mustiala Fennicæ.

92. **Sphærella maculiformis** (Pers.) Auersw. Sacc. Syll. I, p. 477. — 2566

Var. **Pseudoplatani** Pass. in litt. Brun. in Rev. Myc. 1886, p. 205. — Peritheciis subglobosis, minutis, valde approximatis, hypophyllis; ascis numerosissimis, cylindræis,  $50 \approx 5$ ; sporidiis?....

*Hab.* in foliis Aceris Pseudoplatani, Saintes Gallicæ.

93. **Sphærella corylina** Karst. in Hedw. 1884, n. 1, pag. 4, Rev. 2567

atque Synop. Ascom. fenn. p. 64. — Peritheciis hypophyllis per totam paginam dispersis, initio epidermide tectis, dein liberis, sub-superficialibus conoideo-sphæroideis, poro pertusis, atris, 60-80  $\mu$ . diam.; ascis cylindræo-elongatis, vulgo curvulis, sæpe prope medium leviter inflatis, 30-44  $\times$  8; sporidiis 8-nis, distichis, oblongatis vel ovoideo-oblongatis, uniseptatis, eguttulatis, 8-14  $\times$  2-4.

*Hab.* in foliis Coryli Avellanæ ad Mustiala Fennicæ.

94. **Sphærella dendroides** Schw. Syn. Carol. n. 221, Journ. of. Bot. 2568

1883, p. 108. — Epiphylla aggregata, astoma, maculas maximas cinereas dendroides exhibens; peritheciis nigris erumpentibus; ascis saccatis, late clavatis; sporidiis lanceolatis, uniseptatis, hyalinis, loculo inferiore paullo tenuiore, leniter constrictis, 24-25  $\times$  4.

*Hab.* in foliis Caryæ, Amer. bor.

95. **Sphærella Firmianæ** Pass. Diagn. Fungi nuovi, I, n. 13. — Pe- 2569

ritheciis laxè gregariis, minutis tectis, ostiolo acuto erumpente, atris; ascis cæspitosis oblongis, infra medium plus minus inflatis et sæpe inæquilateralibus, basi constricta stipitatis, 50-65  $\times$  14-15; sporidiis subdistichis, oblongis, medio septatis, loculo altero vix angustiore, 18-20  $\times$  7-7,5.

*Hab.* in petiolis putrescentibus Firmianæ (Sterculiæ) platanifoliæ in Horto botanico, Parma.

96. **Sphærella succedanea** Pass. Diagn. Fung. nuovi, I, n. 15. — Pe- 2570

ritheciis epiphyllis in maculis irregularibus, exaridis subgregariis, globosis vel lenticulari-depressis, atris; ascis fasciculatis, ovato-oblongis vel gibbis aut clavatis, basi breviter constricto-stipitatis, 8-sporis, 45-62  $\times$  15-20; sporidiis bi-tristichis vel conglobatis, medio septatis, non constrictis, hyalinis, 15-20  $\times$  6-7.

*Hab.* in foliis languidis *Plasmoparâ* jam invasis Vitis viniferæ, sociâ *Phoma succedanea*, Parma. — Peritheciis semper epiphyllis, nucleo durissimo carentibus et sporidiis angustioribus non constrictis, a *Sphærella Vitis* videtur distinguenda.

97. **Sphærella japonica** Pass. Diagn. Funghi nuovi, I, n. 16. — Pe. 2571  
 ritheciis amphigenis, gregariis vel sparsis, epidermide tectis punctiformibus, non pertusis, atris, contextu obscure celluloso; ascis fasciculatis, non paraphysatis, oblongo-clavatis vel infra medium inflatis, 8-sporis,  $62-85 \approx 10-20$ ; sporidiis subdistichis oblongis, prope medium septatis, non constrictis, hyalinis,  $20-25 \approx 5-7$ .

*Hab.* in foliis putrescentibus *Evonymi japonici* in Horto botanico, Parma.

98. **Sphærella Mayteni** Speg. F. Fueg. n. 199. — Maculis nullis v. 2572  
 totum folium ambientibus arescenti-cineraceis, indeterminatis; peritheciis hypophyllis, laxe gregariis, epidermide velatis, prominulis e lenticulari conoideis  $100-120 \mu$ . atris, glabris, coriacellis, contextu parenchymatico fuligineo, ostiolo minuto perforatis; ascis obclavatis, antice truncato-rotundatis, crassiuscule tunicatis, postice abrupte coarctatis ac pedicello parvulo noduloso suffultis,  $50-55 \approx 10$ , octosporis, aparaphysatis; sporidiis distichis elliptico-elongatis subclavulatis utrinque obtusis,  $12-13 \approx 4$ , medio 1-septatis non v. vix constrictis, hyalinis.

*Hab.* ad folia emortua adhuc pendula *Mayteni* prope *Sham-macus* Fuegiæ. — A *Sph. Aiacu* Speg. toto cælo diversa!

99. **Sphærella Aiacu** Speg. F. Fueg. n. 193. — Maculis marginalibus, 2573  
 majusculis determinatis, fuscescentibus, linea incrassatula rufescente cinctis; peritheciis epiphyllis densissime gregariis, minutis, subglobosis,  $70-80 \mu$ ., epidermide velatis, prominulis, glabris, atris, coriacellis contextu parenchymatico olivaceo, ostiolo impresso donatis; ascis fusoido-obclavatis, apice truncato-rotundatis subcrassiuscule tunicatis, late 1-fovelatis, basi in pedicellum brevissimum cras-sumque cuneato-productis,  $30-35 \approx 5$ , octosporis, aparaphysatis; sporidiis clavulato-acicularibus utrinque obtusiuscule acutatis  $10-12 \approx 2$ , medio 1-septatis non constrictis, hyalinis.

*Hab.* ad folia languida *Mayteni* prope *Picton island* Fuegiæ.

100. **Sphærella Mygindæ** Winter Contr. Fl. Myc. Lus. V, p. 13. — 2574  
 Peritheciis densis, gregariis, macula cinerea, rotundato-diformi, 1-10 mm. lata, interdum effusa et folii magnam partem occupante, insidentibus, primo immersis, demum superficialibus, punctiformibus, globosis, poro pertusis, atris,  $80-90 \mu$ . diam.; ascis elongato-obclavatis, in stipitem brevem productis,  $36-48 \mu$ . longis, infra medium  $7 \mu$ . latis, sursum usque  $5 \mu$ . attenuatis; sporidiis fusiformibus, sæpe parum inæquilateralibus, bicellularibus, cellula superiori parum latiori, hyalinis, inordinate distichis,  $10-12 \approx 2,5$ .



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

101. **Sphærella Aloysiæ** Passer. Diagn. nuov. Funghi I, n. 27. — Peritheciis minutis, sparsis, epidermidi immutata adnata, atris; ascis oblongo-clavatis, basi abrupte breviter stipitatis, 8-sporis, 50-70  $\approx$  15; sporidiis distichis, oblongis, didymis, vix constrictis, vage pluriguttulatis, hyalinis, 17-22,5  $\approx$  7,5. 2575

*Hab.* in ramulis siccis Aloysiæ in Horto botanico, Parma.

102. **Sphærella spinicola** Passer. Diagn. Fung. nuovi I, n. 28. — Peritheciis crebre sparsis, superficialibus, minimis, punctiformibus, atris; ascis ventricosis aut saccatis, 25-30  $\approx$  7,5-12; sporidiis distichis v. conglobatis, oblongis, utrinque rotundatis, medio septatis, vix v. non constrictis, hyalinis, 10  $\approx$  3. 2576

*Hab.* in spinis Hippophaes rhamnoidis in alveo Tari, Fornovo in prov. Parmensi.

103. **Sphærella Embothrii** Speg. F. Fueg. n. 196. — Maculis nullis v. vix manifestis, totum folium ambientibus, cinerescentibus; peritheciis hypophyllis, dense aggregatis, immersis, epidermide velatis vix prominulis, e conico lenticularibus, 50-70  $\mu$ . diam., coriacello membranaceis, contextu parenchymatico-olivaceo parum distincto, ostiolo impresso perforatis; ascis obclavatis, antice truncato-rotundatis, postice abrupte coarctatis ac pedicello brevissimo, crassiusculo suffultis, 25-30  $\approx$  10, octosporis, aparaphysatis; sporidiis elliptico-clavulatis, utrinque obtusiusculis, 8  $\approx$  3, medio 1-septato-constrictis, loculis subcoarctatis, hyalinis. 2577

*Hab.* ad folia languida v. dejecta Embothrii coccinei in insula Aicina, Beagle channel Fuegiæ.

104. **Sphærella Banksiæ** Cooke et Mass. Grev. XVI, p. 114. — Epiphylla; maculis nullis; peritheciis gregariis, subinnatis, atris, poro pertusis; ascis clavatis, octosporis; sporidiis biseriatis, ellipticis, didymis, hyalinis, 12  $\approx$  5. 2578

*Hab.* in foliis languidis Banksiæ integrifoliæ, Melbourne (Miss CAMPBELL).

105. **Sphærella erysiphoides** Sacc. Mich. II, p. 604. — Peritheciis gregariis in pag. inf. dealbata innato-superficialibus, globoso-depressis, 90-100  $\mu$ . diam., pertusis; ascis tereti-clavatis, 40-45  $\approx$  7, aparaphysatis, octosporis; sporidiis distichis oblongo-clavulatis, 9-10  $\approx$  2,5-3, 1-septatis non constrictis, granulosis, hyalinis. 2579

*Hab.* in foliis languidis Tecomæ radicans, Saintes, sociâ

forma spermogonica *Phyllosticta erysiphoides*, Saintes Galliæ (BRUNAUD). — Habitus fere *Erysiphes*.

106. **Sphærella Capreolatæ** Passer. Diagn. Fung. nuovi IV, n. 6. — 2580

Peritheciis amphigenis, in maculis exaridis, subdiscoideis, rubrocinctis gregariis vel subsparsis, punctiformibus, atris, nitidulis; ascis tubulosis v. clavatis v. medio inflatis, 40-50  $\times$  8-15; sporidiis elongatis, hyalinis, medio septatis, utrinque rotundatis, 15-17  $\times$  5.

*Hab.* in foliis languidis *Bignoniæ capreolatæ*, socio *Glæosporio Bignoniæ* in Horto bot. Parma.

107. **Sphærella staphylina** E. et E. Journ. Myc. 1887, pag. 128. — 2581

Maculis amphigenis, irregularibus, sæpe angustis et elongatis, plerumque paucis in quoque folio, 2-4 mm. v. etiam 1-1,5 cm. lat., interdum folii dimidium occupantibus; peritheciis minutis, utrinque perspicuis, sublenticularibus, subastomis, membranaceis, nigris, 75-100  $\mu$ . diam.; ascis oblongis, sessilibus, 40-60  $\times$  12, aparaphysatis; sporidiis conferto-distichis, oblongo-ellipsoideis, subinæquilateralibus, 1-septatis et constrictis, flavido-hyalinis, 12-15  $\times$  5.

*Hab.* in folis vivis *Staphyleæ trifoliæ*, socio *Macrosporio* in Manhattan Kansas (W. T. SWINGLE). — Adsunt quoque pycnidia stylosporibus ellipsoideis, subfuscis, continuis, circ. 5  $\times$  2,5.

108. **Sphærella collina** Secc. et Sp. Syll. I, p. 493 — var. **caulicola** 2582

Berl. et F. Sacc. Contr. Myc. Lus. p. 4. — Peritheciis subgregariis, erumpentibus; ascis amplis, sursum tenuioribus, 32-36  $\times$  12-14; sporidiis fusoides, 12-15  $\times$  3-4, ad medium 1-septatis, vix constrictis, loculo superiore vix crassiore.

*Hab.* in sarmentis *Loniceræ etruscæ* in Lusitania.

109. **Sphærella Implexæ** Passer. Diagn. Funghi nuovi I, n. 22. — 2583

Maculis amphigenis, griseis, submarginalibus, fusco-limitatis; peritheciis amphigenis, sparsis, ostiolo nigro vix emerso; ascis oblongo-clavatis, basi attenuato-stipitatis, 60  $\times$  12; sporidiis distichis, oblongis, medio septatis, non v. vix constrictis; loculis guttulatis, altero majore, hyalinis, 17-20  $\times$  5-7,5.

*Hab.* in foliis languidis *Loniceræ implexæ* in Horto botanico, Parma.

110. **Sphærella ramulorum** Passer. Diagn. Fung. nuovi I, n. 21. — 2584

Peritheciis crebre sparsis, minutis, ostiolo conico epidermidem perforante; ascis ovatis vel ovato-oblongis, utrinque attenuatis vel etiam clavatis, 8-sporis, 40-80  $\times$  12; sporidiis bi-tristichis, oblongo-fusiformibus, medio septatis, non constrictis, hyalinis, 12-15  $\times$  3-5.

*Hab.* in ramulis vivis *Loniceræ Caprifolii*, Vigheffio pr. Parma.

111. **Sphærella Symphoricarpi** Passer. Diagn. F. N., IV, p. 3, n. 4. — 2585

Peritheciis sparsis, minutis, epidermide nigrefacta velatis, punctiformibus, membranaceis, cellulis amplis fuscidulis contextis; ascis ovato-elongatis, basi abrupte breviter stipitatis, 8-sporis,  $45 \approx 15$ ; sporidiis ad ascorum basim conglobatis, superne subdistichis, oblongo-spathulatis, non vel vix constrictis, hyalinis,  $17,5-20 \approx 6-7$ .

*Hab.* in ramulis vivis *Symphoricarpi racemosi*, Parma.

112. **Sphærella Periplocæ** Passer. Diagn. F. N., IV, p. 3, n. 5. — 2586

Peritheciis subgregariis, tectis, per corticem fissum erumpentibus, globosis, atris, ostiolo obtuso; ascis obclavatis, aparaphysatis, basi breviter stipitatis, rectis vel curvis,  $62-87 \approx 15-17,5$ ; sporidiis subdistichis, ovato-elongatis, utrinque rotundatis, prope medium septatis, non vel vix constrictis, hyalinis,  $16-20 \approx 5-6$ , extremo altero longiore et aliquantulum angustiore.

*Hab.* in ramulis siccis *Periplocæ* in Horto botanico, Parma.

113. **Sphærella Patouillardi** Sacc. in Add. Syll. p. 407. — Maculis 2587

submarginalibus, candicantibus, nitidis, amphigenis; peritheciis hypophyllis, epidermide tectis, gregariis, punctiformibus, globoso-depressis, minutis,  $150-200 \mu$ . diam., poro pertusis, contextu indistincto, olivaceo-fusco; ascis dense fasciculatis, tereti-clavatis, breve stipitatis, non vel obsolete paraphysatis,  $70-80 \approx 12$ , octosporis; sporidiis distichis, fusoideis, leniter curvis, utrinque obtusiusculis, 1-septatis (vel saltem plasmate bipartito),  $20-25 \approx 3-4$ , hyalinis.

*Hab.* in foliis *Buxi sempervirentis*, Eaux Bonnes in Pyrenæis (PATOULLARD). — \***S. Briardi** Sacc. Rev. Myc. 1890 Oct.: Maculis flavo-citrinis, brunneo-marginatis; ascis teretibus, sessilibus,  $54-60 \approx 10-12$ ; sporidiis 1-septatis,  $26-28 \approx 4$ . In foliis *Buxi sempervirentis*, Melun Galliæ (Doct. ROUSSEL).

114. **Sphærella ambiens** Starb. Skand. Pyr. p. 17, t. I, f. 4 (*Mycosphærella*). — 2588

Peritheciis epiphyllis, interdum hypophyllis, sparsis vel gregariis, maculas irregulares, cinerescens formantibus, basi semper epidermide innatis,  $100-125 \mu$ . diam.; ascis cylindraceis, sessilibus,  $35-40 \approx 6$ ; sporidiis octonis, ellipsoideis v. ellipsoideo-fusoideis, distichis, hyalinis v. dilutissime lutescentibus, medio inæqualiter septatis,  $8-12 \approx 2,5-3$ .

*Hab.* in foliis *Berberidis vulgaris* pr. Rodga in parœcia Simonstorp Ostrogothia Scandinaviæ.

115. **Sphærella australis** Speg. F. Fueg. n. 195. — Maculis nullis v. 2589  
amphigenis, parum manifestis, indeterminatis, rufescentibus v. fusciscentibus; peritheciis hypophyllis, hinc inde densiuscule multigregariis, immersis, epidermide velatis e conoideo lenticularibus, 75-80  $\mu$ . diam., vix prominulis, atris, glabris, tenui-membranaceis, contextu parenchymatico, olivaceo, ostiolo impresso; ascis cylindraceo-obclavatis, antice truncato-rotundatis, crassiuscule tunicatis, postice abrupte coarctatis ac pedicello brevissimo noduloso suffultis, 20-25  $\approx$  5-6, octosporis, aparaphysatis; sporidiis di-tristichis, e cylindraceo subclavulatis, sursum obtusiusculis, deorsum acutiuscule rotundatis, 9-10  $\approx$  2, medio 1-septatis, non v. vix constrictulis, hyalinis.

*Hab.* ad folia dejecta Berberidis ilicifoliæ in dumetis in Staten island Fuegiæ.

116. **Sphærella Puiggarii** Speg. F. Puigg. n. 276. — Maculis epiphyllis, 2590  
minutis, candidis, determinatis, 1-2 mm. diam.; peritheciis lenticularibus minutis, atris, 100-120  $\mu$ . diam.; ascis obclavulatis, 50  $\approx$  10-15; sporidiis elliptico-obovatis, hyalinis, 16-18  $\approx$  4-5, medio 1-septatis vix subconstrictis (an demum 3-septatis?).

*Hab.* ad folia viva Bouddleia species cujusdam in dumetis prope Apiahy Brasiliæ.

117. **Sphærella conferta** Speg. Fung. Guar. Pug. I, n. 216. — Ma- 2591  
culis amphigenis, parvulis, 1-2 mm. diam., arescentibus, sordide fusco-griseis, obscure determinatis, irregulariter discoideis, angulosis vel repandulis, densiuscule sparsis; peritheciis hypophyllis, rarissime epiphyllis, numerosissimis, densissime constipatis, maculas nigras efficientibus, epidermide primo tectis, dein suberumpentibus, atris, glabris, globoso-lenticularibus, 70-80  $\mu$ . diam., minute papillulato-ostiolutis, membranaceis, contextu parenchymatico, olivaceo; ascis cylindraceo-obclavatis vel subovatis, antice subtruncato-rotundatis, postice abrupte, nodulose brevissimeque stipitatis, 30-35  $\approx$  8-10, aparaphysatis, 8-sporis; sporidiis distichis, elliptico-elongatis, rectis vel vix inæquilateralibus, utrinque rotundatis, 10-13  $\approx$  2,5-3, medio 1-septatis, non constrictis, loculis in senectute (an semper?) obscure diblastis, 1-2-guttulatis, supero sæpe subcrassiore, hyalinis.

*Hab.* ad folia languida vel dejecta Sapindaceæ cujusdam in silvis prope Guarapí Brasiliæ. — Species habitu mox distinguenda, facillime ad genus *Sphærulinam* transferenda.

118. **Sphærella exarida** Winter in Rev. Myc. 1885. — Peritheciis in 2592

macula, plerumque magna, irregulari, determinata, fuscescente-grisea, arida, elevata, fusco-nigro-limitata gregariis, immersis, globosis, ostiolo papillato, pertuso, prominulo, membranaceo, atro, 90-115  $\mu$ . diam.; ascis oblongis vel e basi latiori sursum parum attenuatis, sessilibus, 8-sporis, 42-52  $\approx$  12-14; sporidiis conglobatis, anguste clavatis, utrinque rotundatis, interdum parum curvatis, medio septatis, non constrictis, hyalinis, 17-21  $\approx$  3,5-4.

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

119. **Sphærella Sapindi** Ell. et Ev. in Journ. of Myc. 1886, p. 101. 2593

— Peritheciis epiphyllis, globosis, prominulis,  $\frac{1}{3}$  mm. diam., sparsis, maculis rotundis, definite marginatis, albis, 3-4 mm. diam., insidentibus; ascis oblongo-cylindræis, 60  $\approx$  12; sporidiis distichis, subellipsoideis utrinque acutiusculis, 1-septatis, ad septum vix constrictis, 16  $\approx$  4, hyalinis.

*Hab.* in foliis vivis Sapindi marginati, Missouri Amer. bor. (B. T. GALLOWAY).

120. **Sphærella? Balansæ** Speg. F. Guar. II, n. 86. — Maculis nul- 2594

lis; peritheciis hypophyllis, hinc inde densissime confertis, plagulas atras subdothideaceas, 1-2 mm. lat., angulosas granulosas fusco-atras efficientibus, globoso-lenticularibus, 80-90  $\mu$ . diam., prominulis, sæpe confluentibus (dothideaceis?) membranaceo-coriacellis, atris glabris, contextu subpellucido parenchymatico olivaceo donatis, ostiolo latissimo 20  $\mu$ . diam., pertusis; ascis cylindræo-obclavatis vel subfusoides, apice subtruncato-rotundatis, deorsum cuneatis stipiteque brevissimo crassiusculo suffultis, 40  $\approx$  12-14, octosporis, aparaphysatis; sporidiis 2-3-stichis, cylindræo-subclavulatis, superne obtusiuscule rotundatis, 20  $\approx$  4-5, medio 1-septatis non v. vix constrictis, rectis v. subcurvulis, hyalinis.

*Hab.* ad folia viva Sapindaceæ cujusdam in silvis pr. Guarapi Brasiliæ. — Species priori peraffinis sed satis ac facile distincta, notis nonnullis ad Dothideaceas vergens.

121. **Sphærella Umbellulariæ** Cooke et Hark. in Grev. XIII, p. 21. — 2595

Hypophylla; maculis suborbicularibus confluentibusve et irregularibus, purpureo-brunneis, margine nigro limitatis; peritheciis hinc illinc aggregatis, semiimmersis, atris; ascis clavatis; sporidiis biserialibus, arcte ellipticis, uniseptatis, hyalinis, 15  $\approx$  4.

*Hab.* in foliis emortuis Umbellulariæ in California.

122. **Sphærella tahitensis** Sacc. Misc. Myc. 1, p. 27. — Peritheciis 2596

hypophyllis, velatis, hinc inde dense gregariis, punctiformibus, len-

ticularibus, pertusis, 80  $\mu$ . diam.; ascis tereti-fusoideis, subsessilibus, apice rotundatis, 48  $\approx$  7-8, octosporis; sporidiis distichis fusoido-clavulatis, 1-septatis, leniter constrictis, 4-guttulatis, 14  $\approx$  3, hyalinis.

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

123. **Sphærella Sassafras** Ell. et Ev. in Torr. bot. Club 1883, p. 98. 2597

— Peritheciis minutis, semiimmersis, in superficie inferiore foliorum sparsis vel subaggregatis, sed non in quaque macula decolorata adstantibus; ascis 35  $\approx$  5; sporidiis distichis, oblongo-ellipsoideis, uniseptatis, 4  $\approx$  1,7, hyalinis.

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

124. **Sphærella rubiginosa** Cooke in Grevillea XIII, pag. 90. — Epi- 2598

phylla; peritheciis sparsis, minutis, punctiformibus, subprominulis, atris; ascis clavatis, sessilibus; sporidiis ellipticis, obtusis, medio leniter constrictis, uniseptatis, chlorinis, 10  $\approx$  5.

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

125. **Sphærella Terebinthi** Pass. Diagn. F. nuov. III, n. 8. — Peri- 2599

theciis hypophyllis minutis gregariis, tectis, maculas fuscas venis limitatas formantibus; ascis numerosis, forma variis, basi breviter stipitatis, raro clavatis, rectis, sæpius curvis, prope basim vel medio ventricosis, 55-75  $\approx$  15-20; sporidiis octonis subdistichis v. conglobatis, oblongis, didymis vix constrictis, loculo inferiore attenuato longiore, hyalinis, 20-22,5  $\approx$  5.

*Hab.* in foliis dejectis *Pistaciæ Terebinthi*, Parma in Horto botanico. — Ascis numquam clavato-cylindricis et sporidiis non ellipticis nec loculis æqualibus, a *Sph. Pistaciæ* Cooke diversa.

126. **Sphærella Pistaciæ** Cooke Journ. of Bot. 1883, p. 109. — Hy- 2600

pophylla; peritheciis semiimmersis, atris, paucis (6-10) in cæspitulos aggregatis; ascis clavato-cylindricis; sporidiis subellipticis, uniseptatis; loculis æqualibus, hyalinis.

*Hab.* in foliis *Pistaciæ veræ*, Marseille Galliæ (Roux).

127. **Sphærella Gordoniæ** Cooke Journ. of Bot. 1883, p. 109. — Hy- 2601

pophylla; peritheciis sparsis tectis, vix visibilibus; ascis subclavatis; sporidiis inordinatis, ellipticis, uniseptatis, hyalinis, medio vix constrictis, 10  $\approx$  4.

*Hab.* in foliis *Gordonie lasianthæ*, Darien Georgia Amer. bor. (RAVENEL).

128. **Sphærella Panacis** Cooke Journ. of Bot. 1883, p. 138. — Hy- 2602  
pophylla, gregaria, maculæformis; peritheciis minimis, subglobosis,  
atris, semiinnatis, maculas orbiculares vel irregulares formantibus;  
ascis cylindrico-clavatis, sessilibus; sporidiis arcte ellipticis, hya-  
linis, uniseptatis, 10  $\approx$  2,5.

*Hab.* in foliis *Panacis crassifolii*, Nova Zelandia, South Island (KIRK).

129. **Sphærella papyrifera** Pass. Diagn. Fung. nuov. I, n. 20. — Pe- 2603  
ritheciis gregariis in maculis fuscis oblongis, subglobosis, atris;  
ascis magnitudine varia, clavatis vel cylindricis; sporidiis oblongis,  
subspathulatis, obscure tenuiter septatis, hyalinis, endoplasmate gra-  
nuloso, interdum uni-biguttulatis, 20  $\approx$  7-7,5.

*Hab.* in petiolis *Araliæ papyriferae* gelu tactis, in Horto botanico, Parma. — Differt a *Sphærella Firmianæ* Pass. peritheciis in maculas aggregatis et ascorum forma; et a *Sphærella Araliæ* C. et Harkn. saltem sporidiorum forma et magnitudine.

130. **Sphærella Drymidis** (Berk.) *Sphæria Drymidis* Curr. Linn. 2604  
Trans. XXII, p. 333, Journ. of Bot. 1883, p. 109. — Epiphylla;  
maculis determinatis, albis, orbicularibus, depressis; peritheciis mi-  
nutis, atris, semiinnatis; ascis cylindræis; sporidiis ellipticis, uni-  
septatis, loculo inferiore tenuiore, hyalinis, 12  $\approx$  4.

*Hab.* in foliis *Drymidis*, Juan Fernandez.

131. **Sphærella Nigredo** (Schw.) Cooke Journ. of Bot. 1883 pag. 109, 2605  
*Sphæria* Schw. Am. n. 1799. — Hypophylla, vix innata, aggrega-  
ta; peritheciis accumulatis majusculis pro ratione, atris, rugosis, pa-  
pillatis, passim solitariis, interdum aggregatis et tunc crusta pul-  
veraceo-cinerecente, orta ex parenchymate, aspersis; ostiolis pa-  
pillæformibus subapertis; ascis clavatis; sporidiis sublanceolatis,  
uniseptatis, loculis subconicis, hyalinis, 8-10  $\approx$  3.

*Hab.* in foliis *Rhois glabræ* Amer. bor. — Cfr. Syll. n. 4474.

132. **Sphærella Ilicis** Ellis in Amer. Nat. XVII, 1883, pag. 317. — 2606  
Amphigena; maculis rotundatis, superne albis, inferne brunneis,  
margine elevato purpureo circumdatis; peritheciis punctiformibus,  
subglobosis, semiinnatis, prominulis, ostiolo amplo; ascis oblongo-  
cylindricis, 40-55  $\approx$  7,5-11; sporidiis biserialibus, clavato-oblongis,  
subhyalinis, uniseptatis, leviter constrictis, 13-15  $\approx$  3.

*Hab.* in foliis subvivi *Ilicis glabræ*, New Jersey Amer bor. (ELLIS).

133. **Sphærella Prini** Cooke in Rav. Amer. Fungi n. 753, Journ. of Bot. 1883, p. 106. — Epiphylla, sparsa vel totam paginam occupans; peritheciis semiinnatis, prominulis, atris; ascis clavatis, sessilibus; sporidiis minutissimis, arcte ellipticis, utrinque obtusis, uni-septatis, hyalinis,  $5 \approx 1,8$ .

*Hab.* in foliis Prini glabri, S. Carolina Amer. bor. (RAVENEL). — Perithecia 0,1-0,14 mm. diam.

134. **Sphærella cornifolia** (Schw.) Cooke in Rav. Amer. Fungi n. 681, Journ. Bot. 1883, p. 108, *Sphæria Corni* Schw. n. 1792. — Hypophylla, maculas efformans, maximas orbiculatas ambitu indeterminatas, *Sph. effiguratæ* instar; cæspitibus trium aut quatuor perithecorum punctiformium absque ulla crusta, inter se distantibus sed frequentibus in eadem macula; peritheciis ipsis astomis, innatis, evacuatis, extus punctatis; ascis clavatis, abbreviatis; sporidiis ellipticis, biseriatis, hyalinis, uniseptatis,  $5 \approx 2$ .

*Hab.* in foliis Corni floridæ in Carolina inferiore Americæ borealis.

135. **Sphærella carpogena** Pass. Diagn. F. nuovi I, n. 9. — Peritheciis sparsis, subcuneatis, minutis, ostiolo atro, acuto vix perspicuo; ascis oblique ovoideo-oblongis,  $50-75 \approx 15-20$ ; sporidiis tristichis vel conglobatis, oblongo-ovatis, medio septatis, non constrictis, hyalinis,  $15-17,5 \approx 5$ .

*Hab.* in fructibus Liriodendri Tulipiferæ in Horto bot., Parma. — *Sphærellæ Tassianæ* fructificatione similis sed perithecorum forma et situ distinguenda.

136. **Sphærella Liriodendri** Cooke Journ. of Bot. 1883, pag. 108. — Epiphylla; maculis orbicularibus, brunneis 1 cm. diam.; peritheciis subinnatis punctiformibus, atris; ascis clavato-cylindricis; sporidiis ellipticis, uniseptatis, hyalinis,  $16 \approx 5$ . — Spermogonium, *Phyllosticta Liriodendri* Cooke.

*Hab.* in foliis Liriodendri Tulipiferæ, Darien Georgia.

137. **Sphærella Pernettiæ** Speg. F. Fueg. n. 201. — Maculis nullis; peritheciis hypophyllis, sparsis, e globoso lenticularibus 100-120  $\mu$ . diam., epidermide velata, prominulis atris, glabris, coriaceo-membranceis, contextu indistincto fuligineo, opaco, ostiolo pusillo perforatis; ascis obclavatis, antice truncato-rotundatis, non vel vix 1-foveolatis postice attenuato-coarctatis, stipite brevissimo crasso noduloso suffultis,  $40-45 \approx 10-12$ , octosporis, aparaphysatis; sporidiis di-polystichis e cylindræo fusoidæis, utrinque obtusiusculis,  $15-17 \approx 3$ , sæpius curvulis, medio 1-septatis non constrictis, hyalinis.



*Hab.* ad folia emortua arida dejecta vel adhuc pendula *Pernettiæ mucronatæ* in Staten island Fuegiæ.

138. **Sphærella Polifoliæ** Ell. et Ev. Proc. Phil. 1890, p. 231. — Pe- 2612  
 ritheciis epiphyllis, maculis griseo-nigris, indefinitis, 2 mm. vel  
 ultra diam., insidentibus, erumpentibus, asperis, minutis, supra late  
 pertusis; ascis oblongis, 35-40  $\approx$  6-8, aparaphysatis; sporidiis di-  
 stichis, clavato-oblongis, 1-septatis, 10-12  $\approx$  2,5-3.

*Hab.* in foliis vivis v. partim emortuis *Andromedæ polifolia*, London Canada Amer. bor. (J. DEARNESS).

139. **Sphærella apiahyna** Speg. F. Puigg. n. 275. — Maculis arescen- 2613  
 ti-impressis, determinatis, rufescentibus, 1-3 mm. diam., hypophyllis;  
 peritheciis sparsis globulosis immersis, 90-120  $\mu$ . diam.; ascis ob-  
 clavatis 40  $\approx$  10; sporidiis cylindraceo-clavulatis hyalinis, 9-10  $\approx$  3,  
 uniseptatis.

*Hab.* ad folia languida coriacea *Ericaceæ* cujusdam in dume-  
 tis prope *Apiahy* Brasiliæ.

140. **Sphærella hæmatodes** B. et C. in Herb. Berk. Cooke in Journ. 2614  
 of Bot. 1883, p. 70. — Epiphylla; maculis orbicularibus, sparsis  
 vel confluentibus, rubro-fuscis, late marginatis; peritheciis mini-  
 mis, nigris, semiimmersis, punctiformibus; ascis cylindrico-clava-  
 tis; sporidiis arcte ellipticis, continuis, hyalinis, 8-10  $\approx$  2,5.

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

141. **Sphærella arbuticola** Peck in Torr. bot. Club. 1883, p. 75. — 2615  
 Maculicola; maculis suborbicularibus, inæqualibus, nigrescentibus  
 vel cinereis, brunneis, paginam inferiorem foliorum occupantibus;  
 peritheciis minutis, nigris, epiphyllis, sparsis vel in glomerulos  
 minutos congestis, epidermidem perforantibus; ascis oblongis, sæpe  
 sursum acutis, 40-60  $\mu$ . longis; sporidiis stipatis, acutis, unisepta-  
 tis, 11-15  $\approx$  4, hyalinis.

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

142. **Sphærella Gallæ** Ell. et Ev. in Torr. bot. Club. 1884, p. 75. — 2616  
 Peritheciis minutis, sparsis vel 2-3 gregariis, epidermidem rum-  
 pentibus; ascis 40-45  $\approx$  10, sessilibus; sporidiis stipatis, bi-tristi-  
 chis, subtilibus, clavatis, 1-septatis, 12-15  $\approx$  3.

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

143. **Sphærella Rhododendri** Cooke Journ. of Bot. 1883, p. 108. — 2617  
 Epiphylla; peritheciis semiinnatis, nitidis, atris, demum asperato-  
 prominulis, in maculas irregulares congestis; ascis cylindricis; spo-

ridiis arcte ellipticis, uniseptatis, rectis, utrinque obtusis, hyalinis, 10-12  $\approx$  2,5.

*Hab.* in foliis languidis et emortuis Rhododendri, Forden Britanniae.

144. **Sphærella Gardeniæ** Cooke Journ. of Bot. 1883, p. 108. — Hy- 2618  
pophylla; peritheciis sparsis, punctiformibus, semiinnatis, atris; ascis clavatis; sporidiis inordinatis, elongato-ellipticis uniseptatis, hyalinis, 12  $\approx$  3,5. — Spermogonium: *Phyllosticta Gardeniæ* Cooke.

*Hab.* in foliis Gardeniæ floridæ, Carolina infer. Amer. bor.

145. **Sphærella Weinmanniæ** Cooke in Grevillea XIV, pag. 130. — 2619  
Epiphylla; peritheciis gregariis, subglobosis, atris, semiimmersis, punctiformibus, pertusis; ascis clavatis; sporidiis lanceolatis, uniseptatis, 15-18  $\approx$  4, hyalino-luteolis.

*Hab.* in foliis emortuis Weinmanniæ racemosæ, New Zealand Austral. (COLENZO).

146. **Sphærella cinerescens** Fuck. — Sacc. Syll. I, p. 493, Winter  
in Hedwigia 1886, p. 21. — Perithecia maculas cinerescentes, plus minusve effuse formantia.

147. **Sphærella cerasina** Cooke. — Sacc. Syll. I, p. 493 — var. **padina** 2620  
Karst. in Hedw. 1884, n. 1, pag. 2, Revisio atque Synop. Ascom. fenn. p. 64. — Peritheciis hypophyllis, innato-prominulis, punctiformibus, sphæroideis, in maculas inæquales, subinde orbiculares, plus minus dense aggregatis, astomis; ascis cylindræo-clavulatis, 28  $\approx$  6; sporidiis ovoideo-oblongatis, uniseptatis, 8  $\approx$  3.

*Hab.* in foliis Pruni Padi in regione Aboënsi.

148. **Sphærella Lenticula** Cooke Rav. Amer. Fungi n. 800. — Hy- 2621  
pophylla; peritheciis globosis, atris in pustulas elevatas, lenticulares dense stipatis, circiter 1 mm. diam.; ascis breviter clavatis; sporidiis inordinatis, ellipticis, uniseptatis 8-9  $\approx$  3-3,5.

*Hab.* in foliis Cerasi carolinianæ, Carolina infer. Americæ borealis.

149. **Sphærella crenata** Brun. Miscell. mycol. p. 11. — Maculis in 2622  
folii pagina superiore nigrescentibus, in inferiore brunneo-griseis, magnitudine et forma variis, irregularibus; peritheciis hypophyllis, sparsis, punctiformibus, erumpentibus, brunneis; ascis cylindræis v. subclavatis, breve pedicellatis, 85-90  $\approx$  8; sporidiis octonis, monostichis v. oblique monostichis, ovoideo-subfusoides, 1-septatis, ad septum non v. vix constrictis, 10-14  $\approx$  7,5-8, hyalinis.

*Hab.* in foliis Spirææ crenatæ, Saintes Galliæ.

150. **Sphærella fruticum** Starb. Skand. Pyr. p. 17, f. 5. — Perithe- 2632  
ciis punctiformibus, laxe gregariis, interdum 2-3-connatis, sphæ-  
roideis, 80-100  $\mu$ . diam., epidermide vix tectis, hyphis mycelii plus  
minus crassis insidentibus; ascis ovato-oblongis, sessilibus v. paul-  
latim pedicellatis, 25-30  $\simeq$  10-12; sporidiis octonis, ovoideo-fusoi-  
deis v. ovoideis, primo guttulis minusculis præditis, deinde prope  
medium 1-septatis paullumque constrictis, superne distichis, inferne  
tristichis, 9-10  $\simeq$  3.

*Hab.* ad caules Rubi idæi pr. Rogda in parœcia Simonstorp  
Ostrogothia (E. HAGLUND) et ad Are Frösnäset in Jemtlandia Scan-  
dinaviæ (A. J. GREVILLIUS).

151. **Sphærella rosigena** Ell. et Ev. Journ. Myc. 1887, pag. 45. — 2624  
Maculicola; maculis amphigenis, rufo-brunneis, purpureo-margina-  
tis, definitis, 3-4 mm. diam.; peritheciis epiphyllis, dense sparsis,  
minutis, 60-75  $\mu$ . diam., partim erumpentibus, subastomis, nigris;  
ascis subclavato-oblongis, 25-30  $\simeq$  8-10; sporidiis distichis, clavato-  
oblongis, hyalinis, 1-septatis, 10-12  $\simeq$  2, subacutis.

*Hab.* in foliis vivis Rosarum cultarum, Louisiana Amer. bor.  
(LANGLOIS). — A *Læstadia Rosæ* distinguenda.

152. **Sphærella cerasicola** Passer. Diagn. Funghi nuovi I, n. 17. — 2625  
Peritheciis minutissimis, sparsis, epidermide tectis eamque puncti-  
formiter sublevantibus, globulosis, atris, ostiolo simplici, pertuso,  
membranaceis, eximie parenchymaticis; ascis oblongo-piriformibus  
vel cuneatis, 8-sporis, 30-36  $\simeq$  12-15; sporidiis conglobatis v. sub-  
tristichis, obovato-oblongis, prope medium septatis, loculo altero  
breviore et angustiore, hyalinis, 10-12  $\simeq$  5.

*Hab.* in ramulis Pruni cerasi, gummosi infectis, socio *Co-  
niothyrio Cerasi*, Vigheffio pr. Parma.

153. **Sphærella rhodophila** Passer. Diagn. F. nuovi, I, n. 18. — Hy- 2626  
pophylla subgregaria; peritheciis minutis prominulis, maculas gri-  
seas, venis limitatas, formantibus; ascis brevibus, sæpius basi vel  
medio ventricosus, interdum globoso-ovatis, 6-8-sporis; sporidiis  
oblongis, didymis, hyalinis, medio leniter constrictis, 20-23  $\simeq$  8.

*Hab.* in foliis dejectis Rosæ in Horto botanico, sociâ *Disco-  
sia Artocreate*, Parma.

154. **Sphærella Aristotelia** Cooke in Grevillea XV, pag. 16. — Ma- 2627  
culis epiphyllis, pallidis, orbicularibus, late fusco-cinctis; perithe-  
ciis minutis, immersis, membranaceis, globoso-depressis, perforatis;  
ascis clavatis, octosporis; sporidiis cylindraceo-ellipsoideis, utrin-  
que rotundatis, uniseptatis, vix constrictis, 18-20  $\simeq$  4.

*Hab.* in foliis vivis *Aristoteliæ racemosæ*, New Zealand Australasiæ (COLENZO).

155. **Sphærella fraxinea** Peck in 35 Rep. St. Mus. 1884, pag. 145. 2628  
— Peritheciis numerosis, minutis 75  $\mu$ . diam., nigris, epiphyllis v. hypophyllis, sæpe in maculis suborbicularibus coacervatis; ascis oblongis, sæpe sursum leniter attenuatis, 35-40  $\mu$ . long.; sporidiis stipatis, oblongo-ovoideis, uniseptatis, 10-12  $\times$  4-5, inæqualibus, parte majore tripla vel quadrupla.

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

156. **Sphærella fraxinicola** (Schw.) Cooke Journ. of Bot. 1883, p. 107, 2629  
*Sph. fraxinicola* Schw. Am. n. 1787. — Hypophylla; peritheciis subinnatis, nigris, demum fissis orificio longitudinaliter, difformibus, paucis tantum conjunctis maculam atram efficientibus minorem, maculis quasi confluentibus inter se; ascis clavatis, abbreviatis, sporidiis inordinatis, subellipticis, uniseptatis, hyalinis, loculo inferiore tenuiore, 7,5  $\times$  3.

*Hab.* in foliis *Fraxini americanæ*, Darien Georgia, Amer. bor. Cfr. Syll. II, n. 4478.

157. **Sphærella effigurata** (Schw.) Cooke Journ. of Bot. 1883, p. 107, 2630  
*Sphæria* Schw. Amer. n. 1790. — Maculis longe lateque effusis, nigro-cinereis ambitu determinatim effigurato, et ob frequentiam perithecorum in margine quasi nigrociacto. sæpe totum folium in pagina aversa occupans; peritheciis innumeris, minutis, accumulatis in his maculis, astomis, subinnatis, convexulis, nigris valde invicem approximatis et crusta cinerescenti quasi inter se connexis; ascis clavatis; sporidiis ellipticis, uniseptatis, vix constrictis, hyalinis, 15  $\times$  4.

*Hab.* in foliis *Fraxini acuminatæ*, Amer. bor. Cfr. Syll. n. 4479.

158. **Sphærella pterophila** Passer. Diagn. nuovi Funghi I, n. 24. — 2631  
Peritheciis minutis, aggregatis, atris, matricem plus minus infuscantibus; ascis oblongo-clavatis v. etiam brevibus, ovatis aut gibbis, 45-75  $\times$  15, 8-sporis; sporidiis distichis v. conglobatis, cuneato-oblongis, extremo altero acutiusculo, altero rotundato, medio septatis, non constrictis, hyalinis, 17-5  $\times$  5.

*Hab.* in samaris *Fraxini Orni* in Horto botanico, Parma.

159. **Sphærella oleina** Cooke et Rav. Amer. Fungi n. 754, Journ. of 2632  
Bot. 1833, p. 107. — Epiphylla; maculis albidis, suborbicularibus, demum confluentibus, rubro-marginatis; peritheciis minimis, puncti-

formibus, vix prominulis, atris, hinc illic subcircinatis; ascis clavato-cylindricis; sporidiis ellipticis, uniseptatis, hyalinis, leniter constrictis,  $12 \approx 4$ . — Spermogonium: *Phyllosticta oleina* Cooke.

*Hab.* in foliis *Oleæ americanæ*, Aiken Carolina Amer. bor.

160. **Sphærella Chionanthi** (B. et Br.) Cooke Bot. Journ. 1883, p. 107, *Didymella Chionanthi* Syllog. I, n. 2143. — Adde: ascis cylindrico-clavatis; sporidiis fusiformibus, 1-septatis, hyalinis,  $18 \approx 5$ . — In foliis *Chionanthi zeylanicæ*, Ceylon (nec in ramis).

161. **Sphærella ulmifolia** Pass. in Erb. critt. ital. Ser. II, n. 1281. — 2633  
Maculis candidis, sparsis, parvulis, discoideis; peritheciis epiphyllis, paucis, punctiformibus, atris; ascis e basi ventricosa attenuatis, breviter abrupte stipitatis, 8-sporis,  $50-70 \approx 18-20$ ; sporidiis subdistichis, oblongo-cuneatis, ad septum non vel vix constrictis,  $20-22 \approx 7-8$ .

*Hab.* in foliis vivis *Ulmis campestris*, Parma (G. PASSERINI).

— Facie *Hendersoniam ulmifoliam* Pass. in Thum. Mycoth. univers. n. 1978, refert, quæ formam ejusdem stylosporam sistit.

162. **Sphærella platanifolia** Cooke Journ. of Bot. 1883, pag. 106. — 2634  
Hypophylla, sparsa; peritheciis exiguis, atris, semiimmersis, punctiformibus; ascis clavatis, sessilibus; sporidiis biseriatis, subellipticis, uniseptatis, hyalinis, loculo inferiore tenuiore,  $8 \approx 4$ .

*Hab.* in foliis *Platani occidentalis*, Georgia Amer. bor. (RAVENEL).

163. **Sphærella incanescens** (Schw.) Cooke Journ. of Bot. 1883, p. 107, 2635  
*Sphæria* Schw. Amer. n. 1796. — Maculis incanescensibus, late effusis, indeterminatis, quasi pruinatis, insident perithecia punctiformia subglobosa, minutissima, nigra, demum evacuata, sæpe quasi truncata aut collapsa; ascis cylindricis; sporidiis ellipticis, uniseptatis, hyalinis,  $8 \approx 3$ .

*Hab.* in foliis *Tiliæ* in Amer. borealis (SCHWEINITZ). — Cfr. Syll. n. 4477.

164. **Sphærella platythea** Karst. in Hedw. 1883, n. 12, p. 179 et Rev. 2636  
atque Synop. Ascom. fenn. p. 66. — Peritheciis.....; ascis sessilibus v. brevissime stipitatis, inferne inæqualiter saccato-inflatis (ut in *Sph. Tassiana*),  $65-80 \approx 20-28$ ; sporidiis octonis, ovoideo-oblongatis, medio v. paullo extra medium uniseptatis, ad septum vix v. leviter constrictis, vulgo guttulatis,  $22-35 \approx 7-10$ .

*Hab.* in foliis emortuis *Tiliæ platyphyllæ* in Mustiala. —

Forte cum *Sphærella Tassiana* conjugenda.

165. **Sphærella bracteophila** Passer. Diagn. Fung. nuovi, I, n. 14. — 2637

Peritheciis epiphyllis, sparsis, subglobosis, atris; ascis oblongis, clavatis v. medio turgidulis, 8-sporis; sporidiis oblongis, apicibus rotundatis, altero angustiore, medio septatis, subconstrictis, 18-23,5  $\approx$  5-6,5.

*Hab.* in bracteis dejectis Tiliæ europææ, Parma.

166. **Sphærella maculans** Passer. Diagn. F. nuov. III, n. 10. — Pe- 2638  
 ritheciis in maculis epiphyllis albicantibus, fusco-marginatis, paucis, crassiusculis, atris; ascis sæpius ovoideo-elongatis v. subclavatis, 8-sporis, 50-75  $\approx$  12-15; sporidiis oblongis, bi-tristichis, medio septatis, hyalinis, 15  $\approx$  5.

*Hab.* in foliis vivis Populi albæ, Vigheffio, Parma. — Ascorum et sporidiorum magnitudine a *S. maculosa* Sacc. et a *S. maculari* (Fr.) pariter differt. Maculis exceptis, ad *S. crassam* Auersw. propius accedit.

167. **Sphærella populifolia** Cooke Rav. Amer. Fungi n. 689, Journ. 2639  
 of Bot. 1883, p. 197. — Hypophylla; peritheciis innato-prominulis, punctiformibus, globosis, nigris, in maculas minutas crebras dense aggregatis v. sparsis; ascis cylindricis; sporidiis sublanceolatis; uniseptatis hyalinis, 16-18  $\approx$  3,5-4.

*Hab.* in foliis Populi angulatæ, Aiken Carolina austr. Amer. bor.

168. **Sphærella salicicola** (Fr.) Fuck. — Sacc. Syll. I, p. 487. — Var. **borealis** Karst. in Hedw. 1884, p. 3. — Ascis 50-65  $\approx$  10-12; sporidiis 9-12  $\approx$  2-4. — Ad folia emortua Salicis phlycifoliæ, *S. capreæ* et *S. auritæ* in Fennia, vulgatissima.

169. **Sphærella Æsculi** Cocc. et Mor. Funghi Bol. IV, pag. 9, t. II, 2640  
 f. 2-5. — Peritheciis numerosis, minutis, erumpentibus, epiphyllis, in areolis magnis subdecoloratis, oblongis, irregularibus gregariis, globulosis, subdepressis, 90-98  $\mu$ . diam.; ascis cylindræis, 42-46  $\approx$  8-10; sporidiis hyalinis, distichis, medio subconstrictis, 1-septatis, ovoideo-oblongis, utrinque obtusiusculis, 12-14  $\approx$  4-5.

*Hab.* in foliis Quercus Æsculi, Montese in agro Bononiensi Italiæ.

170. **Sphærella aquatica** Cooke Rav. Amer. Fungi n. 690, Journ. of 2641  
 Bot. 1883, p. 106. — Hypophylla; peritheciis globosis, atro-brunneis, in maculas orbiculares dense stipatis, primo cuticula tectis, demum emergentibus; ascis clavato-cylindricis; sporidiis elongato-ellipticis, uniseptatis, hyalinis, 20  $\approx$  4.

*Hab.* in foliis Quercus aquaticæ, Darien Georgia (RAVENEL).

171. **Sphærella Phellos** (Schw.) Cooke Journ. of Bot. 1883, p. 106, 2642

*Sph. Phellos* Schw. n. 2805. — Hypophylla; peritheciis paucis sparsim in macula griseo-fusca aggregatis, pagina aversa innatis, prominulis, subglobosis, minutis, nigris, pertusis; ascis clavatis; sporidiis arcte ellipticis, uniseptatis, hyalinis,  $8-10 \approx 2,5$ .

*Hab.* in foliis *Quercus Phelli*, Carolina infer. Amer. bor.

172. **Sphærella antarctica** Speg. F. Fueg. n. 194. — Maculis nullis; 2643  
peritheciis hypophyllis, sparsis, parenchymate immersis, epidermide velatis, vix prominulis e globoso conicis,  $80-100 \mu$ . diam., atris, glabris, coriaceo-membranaceis, contextu majusculè parenchymatico, olivaceo; ostiolo papillulato; ascis cylindræis, non vel vix obclavulatis, apice rotundatis, tunica vix incrassata, basi subcoarctatis ac stipite brevissimo, noduloso suffultis,  $25-30 \approx 3,5-4$ , octosporis, aparaphysatis; sporidiis elongato-subclavulatis, utrinque acutiusculis,  $7,5-8,5 \approx 1,5$ , medio septatis non constrictis, leniter curvulis, hyalinis.

*Hab.* ad folia dejecta *Fagi antarcticæ*, ubique vulgata in Fuegia.

173. **Sphærella Castagnei** Har. et Br. Rev. Myc. 1891, p. 18, *Sph.* 2644  
*Celtidis* Har. et Br. Rev. Myc. 1890, p. 177, nec Pass. — Peritheciis hypophyllis, congregatis, confertis, nigris, minutissimis,  $70-80 \mu$ . diam., maculas atras,  $1-1,5$  mm. diam. formantibus; ascis cylindræo-fusoideis, sessilibus, 8-sporis,  $32-40 \approx 8$ ; sporidiis distichis vel conglobatis, fusoideis, obtusulis, 1-septatis, subconstrictis,  $12-16 \approx 3-4$ , hyalinis.

*Hab.* in foliis emortuis *Celtidis australis*, Marseille Galliæ (CASTAGNE).

174. **Sphærella Celtidis** Pass. Fung. nuovi, IV, p. 4, n. 7 et in Roum. 2645  
Fungi selecti exs. n. 5043. — Peritheciis hypophyllis, sparsis vel subgregariis, erumpentibus, minutis, globoso-conicis, ostiolo acuto, atris; ascis subclavatis, aparaphysatis?; sporidiis elongatis, medio septatis vix vel minime constrictis, hyalinis,  $22,5 \approx 6,5$ , loculo altero angustiore.

*Hab.* in foliis dejectis *Celtidis australis* in Horto botanico, Parma.

175. **Sphærella morifolia** Pass. in Erb. Critt. Ital. ser. II, n. 1464. 2646  
— Peritheciis hypophyllis, sparsis vel subgregariis, superficialibus, globosis, atris; ascis brevibus, ut plurimum curvulis, basi inflatis, inæquilateralibus,  $50-55 \approx 10-15$ ; sporidiis distichis vel acervato-subtristichis, oblongo-cuneatis, ad septum non vel leniter constrictis,  $17-25 \approx 5-5\frac{1}{2}$ , hyalinis.

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

176. **Sphærella alnicola** Peck 40 Rep. p. 68. — Peritheciis parvis, 2647  
85-113  $\mu$ . lat., hypophyllis, botryoideis vel sparsis, nudis, nigris;  
ascis oblongis vel subclavatis, 50-62,5  $\approx$  12,5-15; sporidiis confer-  
tis, lanceolatis, 1-septatis, sæpe subincurvis, 22,5-27,5  $\approx$  4.

*Hab.* in foliis emortuis Alni viridis, Mt. Marcy Amer. bor.  
— *Sphærellæ Alni-viridis* affinis sed peritheciis majoribus, stro-  
mate dematiaceo carens et sporidiorum forma diversa.

177. **Sphærella minutissima** Peck 40 Rep. p. 68. — Peritheciis nu- 2648  
merosissimis, foliorum paginam inferam occupantibus, minutissi-  
mis, 50-63  $\mu$ . lat., epidermide velatis, nigris; ascis oblongis vel  
sursum subangustatis, 40-50  $\approx$  7,5-10; sporidiis confertis, oblongis,  
rectis, obscure septatis, 15-17,5  $\approx$  4.

*Hab.* in foliis emortuis Alni incanæ, Adirondack mountains  
Amer. bor.

178. **Sphærella Opuntiae** E. et E. Journ. Myc. 1888, p. 97. — Peri- 2649  
theciis gregariis, 100-112  $\mu$ . diam., in cæspitulos 2-10 mm. diam.  
confertis; ostiolis erumpentibus, globosis, imperfecte 4-sulcato-fis-  
sis; ascis oblongo-cylindræis, 60  $\approx$  8-9, sessilibus, aparaphysatis;  
sporidiis distichis, clavato-fusoideis, 1-septatis, ad septum subin-  
curvulis, guttatis, flavidis, 20-22  $\approx$  3,5.

*Hab.* in foliis emortuis Opuntiae, Louisiana Amer. bor.

179. **Sphærella Macluræ** Ell. et Ev. Proc. Phil. 1890, p. 231. — Ma- 2650  
culis rubro-brunneis margine saturatiore cinctis, 3-10 cm. diam.  
vel confluendo latioribus, fragilibus, centro pallidioribus et mox  
laceratis; peritheciis innatis, minutis 75  $\mu$ . diam., vertice erumpen-  
te; ascis oblongo-cylindræis, 50  $\approx$  8-10, aparaphysatis; sporidiis  
biseriatis, oblongo-piriformibus, constrictis, leniter curvis, 12-14  $\approx$   
5; apicibus subacutis.

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

180. **Sphærella sycophila** Winter in Hedw. 1886, pag. 101 (*ficophila*). 2651  
— Peritheciis in macula exarida, permagna, usque 35 mm. lata, ir-  
regulari, fusca, late viridi cincta, indeterminata, hypophylla grega-  
riis, immersis, globosis, poro punctiformi pertusis, membranaceis,  
atris demum hemisphærice prominulis, 60-70  $\mu$ . latis; ascis obla-  
vatis, e basi crassiori sursum parum attenuatis, sessilibus, octospor-  
is, 24-26  $\approx$  8; sporidiis conglobatis, fusoideis, utrinque attenuatis  
sed rotundatis, inæquilateralibus et interdum parum curvatis, me-  
dio 1-septatis, haud constrictis, hyalinis, 12  $\approx$  2.



*Hab.* in foliis Fici cujusdam in insula S. Thomæ Afr. occ.

181. **Sphærella Podocarpi** Cooke Journ. of Bot. 1883, p. 106. — Amphigena; peritheciis numerosis, atris epidermide tectis; ascis cylindrico-clavatis; sporidiis elongato-ellipticis, uniseptatis, hyalinis, 12 = 3. 2652
- Hab.* in foliis Podocarpi, Java (KUNZE). — Perithecia subinde totam folii paginam occupant.
182. **Sphærella Taxodii** Cooke in Rav. Fungi Amer. n. 686. — Amphigena; peritheciis sparsis, subprominulis, atris 130  $\mu$ . diam., poro pertusis; ascis cylindricis; sporidiis arcte ellipticis, uniseptatis hyalinis, 8 = 2,5. 2653
- Hab.* in foliis Taxodii distichi, Carolina inf. Amer. bor. (RAVENEL).
183. **Sphærella conigena** Peck in 33 Rep. St. Mus. p. 34. — Peritheciis minutis, erumpentibus, nigris; ascis latis, obovatis vel subclavatis, sæpe apice acutis; sporidiis oblongis vel subcylindræis, demum uniseptatis, 25-40  $\mu$ . longis. 2654
- Hab.* in conis Thujæ in montibus Helderberg Amer. bor.
184. **Sphærella Retinosporæ** Berl. et Bres. Micr. Trid. p. 27, t. II, f. 7. — Peritheciis sparsis, minutis, 90-100  $\mu$ . diam., epidermide tectis, pertusis, contextu parenchymatico, atro; ascis roseolatis v. fasciculatis, sessilibus, clavatis, curvis, 30-35 = 9-10; sporidiis octonis, oblongis vel leniter cuneatis, ad medium 1-septatis, non constrictis, 9-11 = 3-3,5, hyalinis. 2655
- Hab.* in foliis emortuis Retinosporæ squarrosæ prope Trento Tiroliaë cisalpinæ.
185. **Sphærella acicola** Cooke et Hark. in Grevillea XIII, p. 20. — Sparsa, minuta, subinnata; peritheciis globoso-depressis, membranaceis, fuscis; ascis breviter clavatis, octosporis; sporidiis clavato-ellipticis, uniseptatis, hyalinis, flavidis, loculis altero subgloboso, altero angustiore subconico, 7 = 3. 2656
- Hab.* in acubus Pini in California (HARKNESS).
186. **Sphærella Peckii** Sacc., *S. conigena* Peck 38 Rep. Stat. Mus. p. 104, nec ejusd. 33 Rep. — Peritheciis minutis, sparsis v. gregariis, vix prominulis, erumpentibus, nigris; ascis subcylindræis, 60-85 = 12; sporidiis stipatis oblongo-clavatis, uniseptato-constrictis, 10-12 = 4-5, loculis inæqualibus, inferiore acutiore, superiore crassiore rotundatoque. 2657
- Hab.* in conis dejectis Abietis canadensis in montibus Helderberg Amer. bor. — Differt a *S. Pinsapo* longitudine ascorum et fabrica sporidiorum nec non matrice.

187. **Sphærella Andersonii** Sacc. *Sphærella conigena* Ell. et Ev. Proc. 2658  
Phil. 1890, p. 230, nec Peck. — Peritheciis gregariis, minutis, apice nigro, levi, conico-papilliformi excepto, immersis; ascis anguste clavato-cylindræis, subtus sensim attenuatis, 75-80  $\approx$  5, aparaphysatis; sporidiis monostichis, ovoideis, 1-septatis, ad septum constrictis, hyalinis, 6-7  $\approx$  3-3,5.  
*Hab.* in apice squamarum strobili Abietis Douglasii, Belt Mts. Montana Amer. bor. (F. W. ANDERSON).

## III. In Monocotyledoneis.

188. **Sphærella Gastonis** Sacc. in Rev. Myc. 1885, p. 158. — Peri- 2659  
theeciis velatis, punctiformibus laxe gregariis; ascis fusoideis, sessilibus, 40  $\approx$  10; sporidiis oblongis, 1-septatis 7-8  $\approx$  2-3, hyalinis.  
*Hab.* in foliis Cocos nuciferæ in insula Tahiti (GAST. BRUNAUD).
189. **Sphærella sabaligena** Ell. et Ev. in Journ. of Myc. 1886, p. 101. 2660  
— Peritheciis gregariis, 100-125  $\mu$ . diam., cuticula cinerescente, vix rupta tectis; ascis subovatis, 22-25  $\approx$  12-15; sporidiis stipitatis, oblongo-clavatis, 1-septatis, ad septum constrictis, 10-12  $\approx$  3,5-4, subhyalinis.  
*Hab.* in foliis emortuis Sabalis Palmetto in America boreali (LANGLOIS).
190. **Sphærella incisa** Ell. et M. in Journ. of Myc. 1885, pag. 99. — 2661  
Peritheciis membranaceis, gregariis, globosis vel depresso globosis,  $\frac{1}{4}$  mm. diam., aparaphysatis, epidermide nigrefacta tectis; sporidiis fusiformibus, utrinque appendicula acuta præditis, endochrome distincte bipartito, pallide luteis, 40-50  $\approx$  3-4.  
*Hab.* in petiolis emortuis Sabalis serrulatæ, New Florida Amer. bor.
191. **Sphærella bacillifera** Karst. in Hedw. 1883, n. 12, p. 31 et Rev. 2662  
atque Synop. Ascom. fenn. p. 68. — Peritheciis sparsis vel subgregariis, subcutaneis, subsphæroideis, glabris, ostiolo brevi erumpente, atris, exiguis; ascis elongato-clavatis, curvatis, apice rotundatis, vix stipitatis, 80-105  $\approx$  20-24; sporidiis octonis, tristichis, bacillari-fusoideis, curvulis, uniseptatis, chlorino-hyalinis, 45-60  $\approx$  6.  
*Hab.* in foliis Scheuchzeriæ palustris emortuis in parœcia Tammela Fenniæ.
192. **Sphærella caricicola** Fuck., Winter in Hedwigia 1886, p. 19, *Læstidia caricicola* (Fuck.) Sacc. Syll. I, n. 430. — Asci 40-44  $\approx$  10-

- 11; sporidia bicellularia, utrinque rotundata, ad septum constricta, hyalina,  $14 \approx 4$ .
193. **Sphærella Pontederiæ** Peck 40 Rep. p. 69. — Maculis majusculis, 12-20  $\mu$ . long., oblongis vel ellipsoideis, interdum confluentibus, supra brunneis, subtus nigrescenti-brunneis vel griseolis; peritheciis minutis, 75  $\mu$ . lat., hypophyllis, nigris; ascis oblongis v. subfusoides, 50-63  $\approx 12,5$ ; sporidiis confertis vel biseriatis, oblongo-clavatis, uniseptatis, interdum 4-guttulatis, 15-20  $\approx 5-6,5$ . 2663
- Hab.* in foliis languidis *Pontederiæ cordatæ*, Whitehall, Washington County Amer. bor. — *S. Caladii* subaffinis.
194. **Sphærella microscopica** Pass. in Brun. Nouv. Fragm. p. 27. — Peritheciis epidermide innatis, punctiformibus, minutissimis, sparsis, brunneis, membranaceis; ascis minutissimis, obovatis vel piriformibus, sæpe gibbosis, 25  $\approx 12$ ; sporidiis inordinatis, lanceolatis, medio 1-septatis, hyalinis, 10  $\approx 2,5-3$ . 2664
- Hab.* in caulibus emortuis *Typhæ angustifoliæ*, Rochefort, Saintes Galliæ.
195. **Sphærella tædiosa** Pass. in Brun. Champ. Saint. V, p. 2. — Peritheciis sparsis, tectis, contextu celluloso, fuligineo, parvis, ostiolo acuto, nigro, vix erumpente; ascis forma variabili, obovatis vel basi ventricosis apiceque attenuatis, rectis vel curvis, 8-sporis, 20-32  $\approx 10-12,5$ , aparaphysatis; sporidiis 2-3-stichis, vel inordinate congestis, oblongis, utrinque rotundatis, hyalinis, 7,5-10  $\approx 2,5-3$ , septo ope chlorurojoduri zinci tantum perspicuo. 2665
- Hab.* in caulibus emortuis *Sparganii ramosi*, Saintes, Saint-Sever, Rochefort Galliæ.
196. **Sphærella subcongregata** Ell. et Ev. in Journ. of Myc. 1886, p. 101. — Peritheciis sparsis, depresso globosis,  $\frac{1}{6}$  mm. diam., cuticula nigrescente, ostiolo minuto perforata tectis; ascis oblongis, sessilibus, circiter 35  $\approx 7$ ; sporidiis distichis vel stipatis, hyalinis fusiformi-oblongis vel clavato-oblongis, 1-septatis, 9-11  $\approx 2,5$ . 2666
- Hab.* in caulibus emortuis *Smilacis*, Newfield Amer. bor., socia *Diplodina Smilacis*.
197. **Sphærella Tassiana** De Not. — Sacc. Syll. I, p. 530. — Var. **rupefortensis** Pass. in litt. Brun. in Rev. Myc. 1886. p. 205. — Ascis oblongis, 37  $\approx 12$ ; sporidiis inordinatis, oblongis, hyalinis, 1-septatis. 2667
- Hab.* in foliis emortuis *Typhæ latifoliæ* in Horto botanico Rochefort Galliæ.
198. **Sphærella Evansiæ** Pat. in Rev. Myc. 1886, pag. 83. — Peritheciis brunneis, minutis, 120-150  $\mu$ . diam., sparsis, primum epi- 2668

dermide tectis dein emersis; ascis sessilibus, aparaphysatis, 50-90  $\approx$  18-22, 8-sporis; sporidiis distichis, bilocularibus, altero rotundato, altero vero attenuato, septo parum constrictis, hyalino-vidulis, 15  $\approx$  4.

*Hab.* in foliis emortuis Evansiæ fimbriatæ, Tibet Asiæ centralis (AB. DAVID).

199. **Sphærella Morææ** Pass. Diagn. Fung. nuov. III, n. 11. — Peritheciis sparsis vel subgregariis, tectis, dein liberis, subglobosis; ascis aparaphysatis oblongo-clavatis, substipitatis, 65-87  $\approx$  15-20, 8-sporis; sporidiis oblongo-spathulatis, subtristichis, ad septum non vel vix constrictis, hyalinis, 20-25  $\approx$  7,5-10. 2669

*Hab.* in caulibus, pedunculis foliisque aridis Morææ sinensis in Horto botanico, Parma. — *Sphærellæ Iridis* Auersw. affinis, sed ascis sporidiisque grandioribus diversa.

200. **Sphærella Hemerocallidis** Pass. Diagn. Fung. nuovi I, n. 33. — Peritheciis gregariis vel sparsis, epidermide fusca tectis, subglobosis, ostiolo acuto, matricem plus minus infusantibus; ascis ovato-oblongis, vix stipitatis, 8-sporis, 45-57  $\approx$  20; sporidiis tristichis, oblongo-obovatis, utrinque rotundatis, tenuiter medio septatis, non constrictis, 17,5  $\approx$  7,5, hyalinis. 2670

*Hab.* in caulibus siccis Hemerocallidis fulvæ, Vigheffo prope Parma. — Ascorum forma et sporidiis non constrictis a *Sph. Pale* Sacc. videtur distinguenda.

201. **Sphærella Dioscoreæ** Pass. Diagn. Fung. nuovi, I, n. 32. — Peritheciis minutissimis, sparsis; ascis aparaphysatis!, obovatis vel subventricosis, 8-sporis, 50-75  $\approx$  10-15; sporidiis distichis, oblongis, uniseptatis, loculis subæqualibus, hyalinis, 20  $\approx$  5-6,5. 2671

*Hab.* in caulibus Dioscoreæ Batatæ in Horto botanico, Parma. — An *Didymella Dioscoreæ* (B. et C.) Sacc. Syll. I, p. 560 huc spectet, e diagnosi brevi et manca haud facile judicandum.

202. **Sphærella fusca** Pass. Diagn. Fung. nuovi, I, n. 31. — Peritheciis minutis, pustulæformibus, laxe gregariis epidermide fuscata tectis, ostiolo papillæformi atro emergente, maculas oblongas, nigricantes, in matrice dealbata efficientibus vel matricem omnino nigrificantibus; ascis ovatis, basi brevissime constricto-stipitatis, superne attenuatis, 8-sporis, 45-50  $\approx$  17; sporidiis subtristichis, oblongis, utrinque rotundatis, medio septatis, non constrictis, hyalinis, 17,5  $\approx$  5. 2672

*Hab.* in caulibus foliisque aridis Gladioli segetum, Vigheffo prope Parma.

203. **Sphærella minimipuncta** Cooke Rav. Amer. Fungi n. 681, Journ. 2673  
Bot. 1883, p. 136. — Sparsa vel aggregata; peritheciis punctiformibus, emergentibus, atris; ascis clavatis, breviter stipitatis; sporidiis ellipticis, continuis (semper?), hyalinis,  $8 \approx 3$ .

*Hab.* in caulibus Gladioli, S. Carolina Amer. bor.

204. **Sphærella Orchidearum** Karst. Rev. atque Synop. Ascom. fenu. 2674  
p. 68. — Peritheciis sparsis vel gregariis, hinc inde aggregatis, epidermide tectis, lentiformibus, atris, nitentibus, sæpe basi hyphis fuligineis, radiantibus obsitis, demum poro pertusis 0,2 mm. circ. lat.; ascis cylindraceo-clavatis; sporidiis ignotis; paraphysibus nullis.

*Hab.* in caulibus aridis *Gymnadeniæ conopseæ* in Mustiala.

205. **Sphærella perexigua** Karst. — Sacc. Syll. I, p. 528 — var. **mi-** 2675  
**nima** (Johans.) Berl. et Vogl. Add. Syll. p. 83, *Mycosphærella perexigua* var. *minima* Johans. Svamp. Island p. 166. — Omnibus partibus minor; peritheciis subgregariis, strias formantibus, 270–370  $\mu$ . diam.; ascis 20–27  $\approx$  10–14; sporidiis conglobatis, rectis vel curvulis, ad septum non constrictis, 11–16  $\approx$  2–3,5 (raro 20  $\mu$ . longis).

*Hab.* in foliis et calamis *Scirpi cæspitosi*, Hofios Islandiæ borealis.

206. **Sphærella Philodendri** Pat. Bull. Soc. Myc. 1888, pag. 112. — 2676  
Peritheciis minutis amphigenis, nigris, glabris, centro ostiolatis, maculis albis late brunneo- v. fulvo-cinctis insidentibus; ascis apice obtusis, basi incrassatis, subsessilibus, 33–40  $\approx$  10, aparaphysatis; sporidiis octonis, rectis, cylindraceis, utrinque rotundatis, hyalinis, 1-septatis, oculis inæqualibus, 11–13  $\approx$  3.

*Hab.* in foliis vivi *Philodendri* cujusdam in Puerto-Zamuro Venezuelæ.

207. **Sphærella junciginea** Cooke Grev. XIX, p. 3. — Peritheciis in 2677  
maculis orbicularibus gregariis, atris, parenchymate immersis, in acervulos elongatos phyllachoriformes, epidermide nigrificata velatos, plerumque subparallele aggregatis, sphæroideis, demum rima longitudinaliter exposita; ascis cylindraceis, octosporis; sporidiis subfusiformibus, didymis, medio vix constrictis, rectis curvulisve, luteo-hyalinis, 12–14  $\approx$  3–3,5.

*Hab.* in culmis *Junci vaginati*, Stewart Island Novæ Zealandiæ (KIRK). — Affinis *Sph. phyllachoroidi*.

208. **Sphærella præparva** Pass. et Beltr. F. Sicul. n. 7. — Perithe- 2678  
ciis minutissimis, sparsis epidermide innatis, atris, 40–45  $\mu$ . diam.; ascis obovatis, basi abrupte constrictis, 30  $\mu$ . long.; sporidiis tri-

stichis, fusiformibus, curvulis, medio septatis, non constrictis, hyalinis, 22-25  $\approx$  4 $\frac{1}{2}$ .

*Hab.* in calamis et bracteis Junci acuti, Licata Siciliæ.

209. **Sphærella depressa** (Berk.) Cooke. Huc trasferenda *Physalospora depressa* (Berk.) Sacc. Syll. I, n. 1709, nam sporidia lanceolata, 1-septata, hyalina.

210. **Sphærella Rostkoviæ** Speg. F. Fueg. n. 202. — Maculis nullis vel late ambientibus, indeterminatis e pallescenti fuscescentibus; peritheciis sparsis immersis, vix prominulo-lenticularibus, 90-95  $\mu$ . d. atris glabris coriacellis, contextu densiuscule parenchymatico fusco-atro; ascis ovatis, antice truncato-rotundatis, crassissime tunicatis, latissime 1-foveolatis, postice rotundato-coarctatis, 26-28  $\approx$  8, stipite brevissimo noduloso suffultis; sporidiis inordinatis elliptico-clavulatis, utrinque obtuse rotundatis, 8  $\approx$  1,5-2, primo grosse 4-guttulatis, dein 1-septatis non constrictis, hyalinis. 2679

*Hab.* in culmis dejectis putrescentibus Rostkoviæ (Junci) grandifloræ in Staten island Fuegiæ.

211. **Sphærella parallelogramma** Rehm in Hedwigia 1885, p. 239. — Peritheciis minutissimis, globosis, atris, gregarie confertis, in maculis epidermidis parallelogrammiformibus, griseis vel griseo-atris, 2-5 mm. long., 1-2 mm. lat., secundum longitudinem culmorum conspicuis, sessilibus, primitus immersis, glabris, parenchymate fusco contextis; ascis pseudo-piriformibus, latis, basi sessilibus, crassis, 8-sporis, 25-27  $\approx$  9; sporidiis polystichis, fusiformibus, acutis, rectis, 2-cellularibus, cellulis æqualibus, sæpe binucleatis, hyalinis, 10-12  $\approx$  2; paraphysibus nullis. 2680

*Hab.* ad culmos siccos gramineos prope glaciem æternam montis Ortler prope Sulden in Tirolia (DR. REHM).

212. **Sphærella Bambusæ** Pat. Bull. Soc. Myc. 1888, p. 112. — Peritheciis globosis, minutissimis, 50-70  $\mu$ ., gregariis, numerosis, nigris, cellularibus, apice poro pertusis; ascis clavatis, apice obtusis, subsessilibus, 8-sporis, aparaphysatis; sporidiis hyalinis, ovoideo-elongatis, rectis, 1-septatis, loculis æqualibus, 11-13  $\approx$  2-2,5. 2681

*Hab.* in culmis Bambusæ putridis in Caracas Venezuelæ.

213. **Sphærella Cruris-galli** E. et K. Journ. Myc. 1887, p. 105. — Peritheciis immersis, utrinque perspicuis sed supra magis prominulis, æqualiter sparsis vel minute gregariis, globosis, 100-115  $\mu$ . diam., ostiolo lato, rotundo; ascis oblongis, 50-55  $\approx$  10-12, aparaphysatis; sporidiis confertis, oblongo-fusoideis, subinæquilateralibus, 1-septatis, plerumque ad septum constrictis, hyalinis, 14-16  $\approx$  4. 2682

*Hab.* in foliis aridis *Panici Cruris-galli*, Manhattan Americæ borealis (SWINGLE).

214. **Sphærella exitialis** Mor. Enum. F. Bol. IV, p. 10. — Peritheciis non maculicolis, adproximatis v. sæpius sparsis, amphigenis, globosis, epapillatis, ostiolo majusculo præditis, erumpentibus, saturate brunneis, 75-90  $\mu$ . diam., contextu e cellulis polyhædricis, 6-9  $\mu$ . diam. formato; ascis cylindræis, subincurvulis, subtus sæpius ventricosis, breve pedicellati, 45-24  $\approx$  16-20; sporidiis subdistichis vel confertis, hyalinis, cylindræo-ovoideis, 1-septatis, loculo uno brevior et crassior, altero longior et tenuior, 14-16  $\approx$  5-6.

*Hab.* in culmis languidis *Tritici vulgaris* prope Mezzolara in agro Bononiensi Italiæ. *Tritico* exitialis.

215. **Sphærella Spartinae** E. et E. Journ. Mycol. 1888, p. 97. — Peritheciis laxè parenchymaticis, subastomis, ellipsoideis, 170-190  $\approx$  100-112, immersis, æqualiter denseque sparsis; sporidiis oblongo-ellipsoideis, flavidis, medio constrictis et septo parum conspicuo præditis, 4-guttulatis, 12-16  $\approx$  4,5-5,5.

*Hab.* in foliis emortuis et vaginis *Spartinae cynosuroidis* prope Lincoln, Nebraska Amer. bor. — Ascii immaturi sed evidenter præsentis.

216. **Sphærella Hordei** Karst. Hedw. 1890, pag. 271. — Peritheciis sparsis, subcutaneis, epiphyllis, sphæroideis vel sphæroideo-depressis, atris vel fusco-atris, osculo hiantibus, 0,1 mm. vel paullo ultra; ascis fusoidèo-elongatis, subinde basi plus minus ventricosis obliquisque, 55-62  $\approx$  13-16; sporidiis octonis, di- vel subtristichis, oblongatis vel fusoidèo-oblongatis, uniseptatis, ad septum constrictis, loculis 2-guttulatis rectis, hyalinis, 18-24  $\approx$  6-8.

*Hab.* in foliis *Hordei vulgaris* languescentibus in parœcia Libelits Fennia (ERNST SAVANDER). — *Hordeo* noxia.

217. **Sphærella graminicola** Fuck. — Syll. f. I, p. 528 — f. **alpina** Rehm Ascom. n. 794. — Peritheciis grosse cellulosis, brunneis, calvis; ascis ovoideis, vertice incrassatis, sessilibus, 8-sporis, 36  $\approx$  15; sporidiis oblongis subclavatis, rectis, 1-septatis, pluriseriatis, 15  $\approx$  4.

*Hab.* in foliis emortuis siccis *Graminum* in alpinis am Ortler Tirolia, ad 2000 m. circ.

218. **Sphærella Dactylidis** Pass. Diagn. F. nuovi, I, n. 37. — Peritheciis sparsis, erumpentibus, tectis, ostiolo acuto; ascis ex ovata basi attenuatis, rectis vel gibbis, breviter abrupte stipitatis, 45-50  $\approx$  20-

23, 8-sporis; sporidiis conglobatis vel subtristichis, obovato-oblongis, utrinque rotundatis, uniseptatis, non vel vix constrictis, 18-19  $\approx$  7-8, hyalinis, endoplasmate opaco, granuloso.

*Hab.* in culmo et in rachide *Dactylidis glomeratæ*, Vigheffio prope Parma.

219. **Sphærella Eulaliæ** Pass. Diagn. Fung. nuovi, I, n. 36. — Ma- 2688  
culis nullis; peritheciis punctiformibus, sparsis vel in series lineares breves digestis, ostiolo vix perspicuo, primo tectis, dein plus minus nudatis, erumpentibus; ascis ovato-oblongis, basi gibbo-ventricosis, breviter abrupte stipitatis, 50  $\approx$  15, 8-sporis; sporidiis subtristichis, ovoideo-oblongis, rectis, ad septum leviter constrictis, hyalinis, loculis varie guttulatis, altero crassiore, 22,5  $\approx$  7,5.

*Hab.* in foliis siccis *Eulaliæ japonicæ* in Horto botanico, Parma.

220. **Sphærella maydina** Pass. Diagn. Fung. nuovi, I, n. 35. — Peri- 2689  
theeciis minutissimis, superficialibus, sparsis, cellulis fuligineis grandiusculis contextis; ascis parvulis, ovato-oblongis, subsessilibus, 8-sporis, 25  $\approx$  10; sporidiis conglobatis, oblongis, prope medium septatis et breviter constrictis, utrinque rotundatis, hyalinis, 10  $\approx$  3,5.

*Hab.* in culmis putridis *Zeæ Maydis*, Vigheffio pr. Parma. — A *Sph. zeina* peritheciis multo minoribus e matrice griseola oriundis præcipue distinguenda.

221. **Sphærella zeina** Pass. Diagn. Fung. nuovi, I, n. 34. — Peritheciis 2690  
in matrice dealbata erumpentibus, sparsis, minutis, globosis, atris; ascis ovatis vel oblique ovatis, 25  $\approx$  14-15, 8-sporis; sporidiis oblongis, non constrictis, didymis, hyalinis, 10  $\approx$  2,5.

*Hab.* in culmis fracidis *Zeæ Maydis*, Vigheffio pr. Parma.

222. **Sphærella Triseti** Speg. F. Fueg. n. 203. — Maculis nullis; pe- 2691  
ritheciis hypophyllis sparsis vel laxe gregariis ac subseriatis, immersis, non v. vix prominulis, lenticularibus, 70-80  $\mu$ . diam., tenui-membranaceis, contextu parenchymatico fuligineo, ostiolo latissimo, 20  $\mu$ . diam., impresso perforatis, globosis, levibus; ascis cylindraceo-ovatis, antice truncato-rotundatis, crasse tunicatis non foveolatis, postice brevissime cuneatis, 24-26  $\approx$  8, stipite brevissimo crasso noduloso suffultis, octosporis, aparaphysatis; sporidiis di-  
poly-  
stichis, subclavulato-ellipticis, utrinque truncato-rotundatis, 10-12  $\approx$  2,5, medio 1-septatis constrictulis, loculo supero nonnihil crassiore, hyalinis.

*Hab.* ad folia languida *Triseti* in summis montibus in Staten island Fuegiæ.



223. **Sphærella californica** Cooke et Harkn. Journ. of Bot. 1883, p. 136. 2692  
 — Peritheciis exiguis, sparsis, subsphæroideis, innato-prominulis, nigro-fuscis, poro pertusis; ascis clavato-cylindricis; sporidiis arcte ellipticis, uniseptatis, nec constrictis, hyalinis,  $8 \approx 2$ .  
*Hab.* in Graminaceis, California Amer. bor. (HARKNESS).
224. **Sphærella philochorta** Cooke Journ. of Bot. 1883, p. 137. — 2693  
 Epiphylla, sparsa; peritheciis minutis, globosis, prominulis, atris, epidermide ostiolo papillato pertusis, velatis; ascis clavatis; sporidiis arcte cylindrico-ellipticis, utrinque obtusis, uniseptatis, vix constrictis, hyalinis,  $13-17 \approx 3$ .  
*Hab.* in foliis graminum, Maine Amer. bor.
225. **Sphærella epistroma** Cooke Journ. of Bot. 1883, p. 137. — 2694  
 Culmicola, aggregata, innato-prominula, minutissima, nigra, strias breves, 2 mm. long., densas efficiens; ascis cylindricis; sporidiis fusiformibus, rectis curvulisve, uniseptatis, nec constrictis, hyalinis,  $16-18 \approx 3,5$ .  
*Hab.* in culmis graminum in Britannia.
226. **Sphærella disseminata** De Not. et Car. Erb. critt. it. ser. II, n. 391, S. M. I, 2036, nec *Leptosphæria disseminata* De Not. Recl. — Adde: ascis brevibus obclavatis, subsessilibus,  $45-48 \approx 18$ , 8-sporis; sporidiis ovoideo-oblongis, di-tristichis, uniseptatis vix constrictis, rectis curvulisve,  $17-20 \approx 4$ , hyalinis.
227. **Sphærella Mühlenbergiæ** Ellis in Amer. Nat. XVII, 1883, p. 317. 2695  
 — Peritheciis erumpentibus, minutis, plerumque elongato-serialibus; ascis oblongis,  $35 \approx 9,5$ ; sporidiis ellipticis, uniseptatis,  $11-15 \approx 3-3,5$ ; stylosporibus in peritheciis majoribus, oblongo-fusiformibus,  $13-19 \approx 4$ , binucleatis.  
*Hab.* in foliis Mühlenbergiæ, Newfield New Jersey in America boreali (ELLIS).
228. **Sphærella Zizaniæ** (Schw.?) Ell. Journ. Mycol. 1887, *Sphæria* 2696  
 Schw. Syn. N. Amer. n. 175 (?). — Peritheciis immersis, sparsis, non seriatis; ascis tereti-oblongis, turgidis,  $45-55 \approx 10-12$ ; sporidiis distichis clavato-oblongis, 1-septatis constrictisque, hyalinis, rectis curvulisve,  $15-20 \approx 5-6$ .  
*Hab.* in foliis languidis Zizaniæ aquaticæ, Delaware Amer. bor. (COMMONS). — Videtur species Schweinitzii, cujus vero exempl. originalia sunt sterilia.
229. **Sphærella loliacea** Pass. Diagn. Fung. nuovi, I, n. 38. — Peri- 2697  
 theciis minimis, punctiformibus, sparsis vel laxe gregariis; ascis

parvulis obpiriformibus vel clavatis, aparaphysatis, 8-sporis; sporidiis oblongo-cuneatis, ad septum vix constrictis, hyalinis,  $16 \approx 5$ .

*Hab.* in spicis aridis Lolii perennis, Vigheffio pr. Parma. — Ascorum basi angusta ab affinibus *Sphærella Tassiana* et *S. Maydis* præcipue distinguenda.

IV. In Acotyledoneis.

230. **Sphærella altera** Pass. Diagn. Fung. nuovi, I, n. 39. — Peri- 2698  
theeciis minutis, tectis, in seriem simplicem dispositis, maculas lineares formantibus, per epidermidem fissam vix perspicuis, contextu minuto celluloso, fuligineo; ascis aparaphysatis, oblongis, basi plus minus inflatis, ad apicem attenuatis,  $45 \approx 12$ , 8-sporis; sporidiis subtristichis, oblongis, utrinque obtusis, prope medium septatis, vix vel non constrictis, endoplasmate granuloso, non guttulatis, hyalinis,  $15 \approx 5$ .

*Hab.* in caulibus et ramis putrescentibus Equiseti ramosi, Gajone prope Parma.

231. **Sphærella Trichomanis** Cooke in Grevillea XIV, pag. 12. — 2699  
Sparsa vel subcæspitosa; peritheciis semiimmersis, punctiformibus atris, cuticulâ tenui primo tectis, punctato-pertusis; ascis clavatis,  $30 \approx 5$ , octosporis; sporidiis cylindricis, utrinque rotundatis, uniseptatis, hyalinis,  $8 \approx 2$ .

*Hab.* in frondibus vivis Trichomanis prope Samoa in Australia.

232. **Sphærella aquilina** Fr. — Sacc. Syll. I, p. 532 — var. **infera** 2700  
Karst. in Hedw. 1884, n. 1, p. 4, Rev. atque Synop. Ascom. fenn. pag. 68. — A typo recedit peritheciis hypophyllis; ascis  $42-58 \approx 8-9$  sporidiisque ad septum vix vel leviter constrictis,  $8-12 \approx 2-4$ .

*Hab.* in frondibus Pteridis aquilinæ emortuis ad Mustiala Fennicæ.

233. **Sphærella Lycopodii** Peck 39 Rep. p. 51, t. I, f. 12-15. — Pe- 2701  
ritheciis minutis,  $100 \mu$ . lat., nigrescentibus; ascis oblongis v. subcylindræis, apicem versus sæpe subattenuatis,  $30-40 \approx 10$ ; sporidiis oblongis  $11,5-12,5 \approx 4-5$ .

*Hab.* in squamis spicarum Lycopodii clavati, Adirondack mountains Amer. bor. — A *Sph. lycopodina* differt ascis sporidiisque minoribus.

234. **Sphærella parasitica** Wint. in Hedw. 1886, p. 19, *Epicyma-* 2702  
*tia Winteri* Kunze Fungi selecti exsicc. n. 65. — Peritheciis gregariis, minutissimis, globoso-piriformibus, vertice pertusis, tenuis-

sime membranaceis, glabris, fuscis,  $70 \approx 50-60$ ; ascis elongato-ovoides vel oblongis, utrinque attenuatis, sessilibus, 8-sporis,  $24-32 \approx 10-12$ ; sporidiis inordinatis, conglobatis, bacilliformibus, anguste clavatis utrinque rotundatis, hyalinis, bicellularibus, haud constrictis,  $14-18 \approx 3,5$ .

*Hab.* in Cenangio fuliginoso parasitans, in Germania.

**MYCOSPHÆRELLA** Johans. Svamp. Island. p. 163 (1884) pro minori parte (Etym. *myces* fungus et *Sphærella*). — Perithecia *Sphærellæ*. Asci 16-spori, aparaphysati. Sporidia ovata vel oblonga, 1-septata, hyalina \*).

1. **Mycosphærella polyspora** Johans. Svamp. fran Island. pag. 164, 2703  
tab. XXIX, fig. 7. — Peritheciis sparsis vel gregariis, globoso-conoideis, erumpentibus, atris,  $80-120 \mu$ . diam.; ascis aparaphysatis, ovoideis sæpe inæquilateralibus, sessilibus, 16-sporis,  $36-44 \approx 13-18$ ; sporidiis conglobatis, ovato-clavulatis, utrinque rotundatis, medio vel prope medium septatis, guttulatis, rectis, hyalinis,  $11-14 \approx 4-6$ , septo vix constrictis.

*Hab.* in pedunculis et fructibus aridis Azaleæ procumbentis, Eskifjördur Islandiæ orient.

**APIOSPORA** Sacc. Syll. I, p. 539.

1. **Apiospora Striola** (Pass.) Sacc. Syll. I, pag. 539. — Var. **minor** 2704  
Berl. et F. Sacc. Contr. Myc. Lus. p. 3, t. 83, f. 3. — Peritheciis seriatim dispositis, immersis culmique superficiem rimose findentibus et elevantibus; ascis clavatis,  $70-80 \approx 12-15$ , octosporis; sporidiis subdistichis, oblongis,  $20-22 \approx 6$ , basi 1-septatis, hyalinis.

*Hab.* in culmis emortuis Arundinis Donacis, Coimbra Lusitaniæ.

2. **Apiospora Urticæ** Rehm Beitr. Ascom. in Hedw. 1882, p. 133. — 2705  
Peritheciis gregariis, sub peridermio caulium nidulantibus, dein liberis, subglobosis, sessilibus, in collum breviusculum, peridermium perforans protractis, nigris, circ. 0,4 mm. diam.; ascis cylindraceo-clavatis, teneris, 8-sporis  $90 \approx 12$ ; sporidiis dacryoideis, nempe cellula superiore subrotunda,  $\frac{3}{4}$  long. totius sporidii, inferiore sub-

\*) Beat. Johanson pro nomine vastissimi generis *Sphærellæ* (quod nomen olim pro alga quadam usurpatum fuit) illud *Mycosphærellæ* proposuit; sed innovationem hanc inconsultam demonstraverunt cl. A. N. Berlese et G. B. De-Toni (Intorno al genere *Sphærella*, Venezia 1887).

rotunda  $\frac{1}{4}$ ; utraque cellula nucleis 2 parvulis prædita, hyalinis subdistichis,  $18 \approx 10$ ; paraphysibus articulatis, ramosis.

*Hab.* ad caules siccos Urticæ, Hausstattalpe in monte Benedicteuwand alpium Baviariæ (DR. ARNOLD).

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

I. *Eu-Stigmatea*.

1. **Stigmatea vexans** Wint. in Hedw. 1885, I. — Peritheciis in macula non determinata, ochracea vel fuscidula, epiphylla gregariis, 2706  
depresso-hemisphæricis, dimidiatis, crasse membranaceis, atris ostiolo punctiformi, sed distincto pertusis,  $180-230 \approx 96-105$ ; ascis oblongis vel e basi ventricosa sursum parum attenuatis, membrana crassa præditis, sessilibus, 8-sporis,  $58-78 \approx 24-32$ ; sporidiis conglobatis, didymis, olivaceis, cellula superiori fere globosa,  $12-14 \approx 12$ , cellula inferiori obconica,  $9-9,5 \approx 7-9$ ; paraphysibus non distinctis, mucilagineis.

*Hab.* ad folia viva Brayeræ anthelminthicæ, in Abyssinia (KECK).

2. **Stigmatea silvatica** Sacc. Mich. II, pag. 604. — Peritheciis gregariis vel hinc inde aggregatis, hypophyllis, subsuperficialibus, globulosis,  $110-120 \mu$ . diam., pertusis, solidiusculis; ascis tereti-clavulatis,  $40-44 \approx 6-7$ , parce (spuriæ?) paraphysatis, octosporis; sporidiis distichis oblongis, deorsum acutiusculis,  $10 \approx 3$ , uniseptatis, non vel vix constrictis, hyalinis. 2707

*Hab.* in foliis languidis vel emortuis Juniperi communis, Fontainebleau Galliæ (TERRY).

3. **Stigmatea Nicholsoni** Cooke Grev. XI, pag. 16. — Amphigena; 2708  
peritheciis circinantibus, erumpentibus, nigris, nitidulis, convexis, denique collapsis, glabris; ascis clavatis; sporidiis ellipticis, utrinque rotundatis, 1-septatis, constrictis,  $18 \approx 8$ , pallide fuscis.

*Hab.* in foliis Pruni lusitanicæ, Newcastle Britan. (G. NICHOLSON).

4. **Stigmatea nitidula** (Lév.) Sacc. Sic nuncupanda *Sphærella nitidula* Sacc. Sylloge I, n. 1886.

II. *Stigmatula* Sacc.

5. **Stigmatea nitens** Pat. Bull. Soc. Myc. 1888, p. 112. — Epiphylla, 2709  
greges subcirculares, 3-5 mm. diam. formans; peritheciis hemisphæricis, numerosis, distinctis, superficialibus, atro-nitidis, ostiolo vix

prominulo; ascis brevibus, crassis, obtusis,  $80 \approx 26-30$ ; sporidiis ovoideis, obtusis, continuis sed medio subconstrictis, hyalinis,  $20 \approx 10$ .

*Hab.* in foliis coriaceis vivis, Maipures Venezuelæ.

6. **Stigmatea Melastomatum** (Lév.) Sacc. Sic nuncupanda *Læstadia Melastomatum* (Lév.) Sacc. Syll. I, n. 1631.
7. **Stigmatea Francevilliana** Pat. Bull. Soc. Myc. 1887, p. 125, t. X, <sup>2710</sup> fig. 5. — Peritheciis convexis, nigris, nitidis,  $\frac{1}{2}$ -1 mm. diam., basi tantum epidermide insculptis, ostiolo prominulo; ascis piriformibus, breve stipitatis; paraphysibus copiosis, gracilibus ramosis; sporidiis ellipsoideis, hyalinis, continuis,  $15-17 \approx 6$ .
8. **Stigmatea Armandi** Pat. in Rev. Myc. 1886, p. 83. — Peritheciis punctiformibus, nigris, globulosis; ascis sessilibus,  $42-45 \approx 12-15$ ; paraphysibus linearibus; sporidiis uno apice attenuatis,  $12-15 \approx 3-4$ , hyalinis vel pallide viridulis. <sup>2711</sup>

*Hab.* gregatim in caulibus vetustis Rubiaceæ, Franceville Congo.

*Hab.* in petiolis et foliis Clematidis Armandi, Tibet Orient. Asiæ (AB. DAVID).

9. **Stigmatea mucosa** Pat. in Rev. Myc. 1886, p. 82. — Peritheciis <sup>2712</sup> minutis, primum epidermide tectis, demum, ea rupta, prominulis, nigris, rotundis, vertice poro albo pertusis; ascis sessilibus, octosporis,  $35-45 \approx 12-15$ ; sporidiis ovoideis, hyalinis, continuis,  $12-15 \approx 4-5$ ; pseudo-paraphysibus gelatinosis, ramosis, massa mucosa ascos obvallantibus.

*Hab.* in foliis emortuis Agrostidis albæ, Tibet Oriental. Asiæ (AB. DAVID).

## DIDYMELLA Sacc. Syll. I, pag. 545.

### I. Herbicolaæ.

1. **Didymella Fuchsiae** Cooke et Hark. in Grevillea XIV, pag. 9. — <sup>2713</sup> Sparsa vel subgregaria; peritheciis globoso-depressis, atris, epidermide tectis, ostiolo conico, prominulo emergente; ascis cylindrico-clavatis, octosporis; sporidiis biserialibus, rectis curvulisve, uniseptatis, nec constrictis, binucleatis, hyalinis,  $15 \approx 5$ .
- Hab.* in caule Fuchsiae in California (HARKNESS).
2. **Didymella Trifolii** (Fuck.) Sacc. Syll. I, pag. 554, *Didymosphæria Trifolii* Winter in Hedwigia 1886, pag. 24. — Sporidia  $17-20 \approx 5-6$ .
3. **Didymella picea** (Sollm.) Sacc. *Sphæria picea* Sollm. Hedw. 1863, <sup>2714</sup> n. 19, p. 192, t. XIII, f. 12-16, nec Pers. — Peritheciis inæqualiter seriatis, innato-erumpentibus, subglobosis, nigricantibus, minu-

tis, glabris, obtuse papillatis, hyphis mycelii fuligineis ramosis repentibus cinctis; ascis tereti-clavatis, apice rotundatis subsessilibus, paraphysatis; sporidiis distichis, hyalinis, obovatis, 1-septato-constrictis, 17-18  $\approx$  7.

*Hab.* in caulibus siccis Trifolii pratensis prope Coburg Germaniæ.

4. **Didymella Lupini** (Cooke et Hark.) Berl. et Vogl. Add. Syll. p. 88, 2715  
*Sphæria Lupini* Cooke et Hark. in Grev. XIII, p. 18. — Sparsa, punctiformis; peritheciis tectis, globoso-depressis, leniter papillatis; ascis clavatis; sporidiis ellipticis, uniseptatis, hyalino-flaveolis (immaturis?), plasmate granuloso, 15-17  $\approx$  6-7.

*Hab.* in caule Lupini in California (HARKNESS).

5. **Didymella Melonis** Pass. in Erb. Critt. Ital. Ser. II, n. 1465. 2716  
— Peritheciis sparsis, mycelio haud perspicuo, subglobosis ostiolo acuto; ascis cylindrico-clavatis, 8-sporis, 62-80  $\approx$  10-12; sporidiis distichis, constrictis, hyalinis, loculis biguttulatis, 17,5  $\approx$  1,5; paraphysibus brevioribus, paucis.

*Hab.* ad caules, ramos petiolosque aridos Cucumeris Melonis prope Parma Italiæ bor.

6. **Didymella Cookeana** Berl. et Vogl. Add. Syll. p. 87, *Sphæria Me-* 2717  
*garrhizæ* Cooke et Harkness in Grev. XIII, pag. 18. — Sparsa, tecta; peritheciis subglobosis, mox depressis, atris, ostiolo papillato; ascis subclavatis; sporidiis biserialibus, ellipticis, uniseptatis, vix constrictis, hyalinis, pallide luteolis, 12-14  $\approx$  6.

*Hab.* in Megarrhiza californica in California (HARKNESS). — «An a sequente vere diversa?»

7. **Didymella Megarrhizæ** Cooke et Hark. in Grevillea XIV, p. 9. 2718  
— Gregaria; peritheciis subconicis, atris, parvulis, nitidis, initio velatis, demum ostiolo acuto erumpentibus; ascis cylindrico-clavatis, octosporis; sporidiis ellipticis, uniseptatis, medio constrictis, rectis, hyalinis, 16-18  $\approx$  7.

*Hab.* in caule Megarrhizæ in California (HARKNESS).

8. **Didymella Rehmii** (J. Kunze) Sacc., *Didymosphæria Rehmii* Kunze 2719  
Fung. Sel. exsic. n. 1875 (absque diagnosi). — Peritheciis dense gregariis epidermide velatis, tumidulis, globoso-depressis, nigris, vix papillatis; ascis clavulatis, 80-90  $\approx$  10; paraphysibus filiformibus obvallatis, octosporis; sporidiis monostichis, ellipsoideis, obtusiusculis, uniseptatis, 4-guttulatis, leniter constrictis, 15-17  $\approx$  5, hyalinis.

*Hab.* in caulibus subviviſ Verbenæ officinaliſ pr. Eiſle-  
ben Germaniæ.

9. **Didymella? nigrella** (Fr.) Sacc. *Sphæria nigrella* Fr. S. M. II, 2720  
p. 512, Cooke Handb. n. 2728. — Peritheciis ſubgloboſiſ, levibuſ,  
umbilicato-perforatiſ, nigris, maculæ elongatæ determinate nigræ  
inſidentibuſ; ſporidiis diſtichiſ fuſiformibuſ, hyalinis, plasmate bi-  
partito 20  $\mu$ . longiſ.

*Hab.* ad cauleſ Galeoſidum et Angelicæ in Suecia, Bri-  
tannia, Belgio. — Macula conſtanter præſenſ, levigata. Perithecia  
ſuperficiali-innata, umbilicata, intuſ albo-farcta.

10. **Didymella Angelicæ** (E. et E.) Sacc. *Sphærella Angelicæ* Ell. et 2721  
Ev. Proc. Phil. 1890, pag. 231. — Peritheciis ſparſiſ, ſubcutaneis  
cumque epidermide ſecedentibuſ, globoſiſ,  $\frac{1}{4}$  mm. diam., infra col-  
labacentibuſ, oſtiolo papillato, epidermidem perforante et vix ex-  
ſtante; aſciſ clavato-cylindraceiſ, copioſe paraphyſatiſ, 65-70  $\approx$  7-9;  
ſporidiis biſeriatiſ, oblongo-ellipſoideiſ, 2-nucleatiſ, 12-15  $\approx$  3,5, de-  
mum ovato-oblongiſ et 1-ſeptatiſ.

*Hab.* in caulibuſ emortuiſ Angelicæ atropurpureæ, Lon-  
don Canada Amer. bor. (DEARNESS).

11. **Didymella Heribaudii** Har. et Br. Rev. Myc. 1890, n. 47. — Pe- 2722  
ritheciis minutiſ erumpentibuſ, nigris, numeroſiſ, ſubinde confluen-  
tibuſ, irregularibuſ, oblongiſ vel punctiformibuſ, depreſſiſ; aſciſ  
oblongiſ, cylindraceiſ vel clavatiſ, ſeſſilibuſ vel breve ſtipitatiſ, 8-  
ſporiſ, 32-45  $\approx$  8; paraphyſibuſ cohærentibuſ; ſporidiis diſtichiſ,  
oblongiſ vel tereti-fuſoideiſ, 1-ſeptatiſ, obtuſiuſculiſ, hyalinis, 14-  
16  $\approx$  2,5-3.

*Hab.* in caulibuſ ſicciſ Thalietri minoris, an Puy de Cro-  
nel prope Clermant Ferrand Galliæ (HÉRIBAUD).

12. **Didymella chætostoma** Paſſ. Diagn. Fung. nuovi, III, n. 12. — 2723  
Peritheciis ſparſiſ ſubgloboſiſ, tectiſ, oſtiolo acuto ſetuliſ rigidiſ  
convergentibuſ 30-40  $\mu$ . long., obſito, erumpente; aſciſ cylindriciſ,  
breviter ſtipitatiſ, 8-ſporiſ, 60-80  $\approx$  9-10; paraphyſibuſ filiformibuſ  
ſtipitatiſ; ſporidiis monotiſtichiſ ovatiſ, prope medium ſeptatiſ et  
conſtrictiſ, hyalinis, 20  $\approx$  7,5, loculo altero minore.

*Hab.* in caulibuſ ſicciſ Artemiſiæ camphoratae, Vigheffio  
prope Parma Italiæ bor.

13. **Didymella prominens** Ell. et Ev. in Journ. of Myc. 1886, p. 101. 2724  
— Peritheciis erumpenti-ſuperficialiſ, ſparſiſ, ovato-hemiſphæ-  
riciſ,  $\frac{1}{4}$  mm. diam., atris, rugoſiſ, oſtiolo prominulo, tuberculifor-  
mi-conoideo vel breviter cylindraceo, levi donatiſ; aſciſ clavato-

cylindræis, subsessilibus, 40-45  $\approx$  6-7; paraphysibus filiformibus, cinctis, octosporis; sporidiis subfusoides v. cymbiformibus, 1-septatis, hyalinis, 10-12  $\approx$  3-4, ad septum vix constrictis.

*Hab.* in caulibus herbaceis emortuis *Ambrosiæ trifidæ* in America boreali (LANGLOIS).

14. **Didymella superflua** (Fuck.) Sacc. Syll. I, p. 555 — var. **Humuli** 2725  
Karst. Symb. ad Myc. Fenn. XVI (1884), pag. 150 et Rev. atque Synop. Ascom. fenn. pag. 61. — Peritheciis gregariis, primum epidermide tectis, dein denudatis, ut plurimum cupulato-collapsis; ascis cylindræis, subsessilibus, 55-60  $\approx$  8-10; sporidiis 9-15  $\approx$  4-5.

*Hab.* ad caules exsiccatos *Humuli Lupuli* in Mustiala Fenniciæ. — Status pycnidicus est *Phoma sarmentella*.

15. **Didymella inconspicua** Johans. Svamp. fran Island. pag. 167, 2726  
t. XXIX, fig. 8. — Peritheciis sparsis, parenchymate innatis, epidermide leviter nigrefacta tectis, ostiolo rotundo pertusis, atris, glabris, minutis, 95-135  $\mu$ . diam.; ascis octosporis, paraphysatis, ovoideo-elongatis, sæpe inæquilateralibus, 55-65  $\approx$  18-20; sporidiis distichis vel conglobatis, ovoideo-elongatis vel cuneato-elongatis, utrinque rotundatis, prope basim 1-septatis, non constrictis, guttulatis, rectis, hyalinis vel chlorino-hyalinis, 20-23  $\approx$  7-9, loculo majore 15-18  $\mu$ . long., minore 4,5-6  $\mu$ . long.

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

16. **Didymella Chamæjasmes** (Fuck.) Berl. et Vogl. Add. Syll. p. 88, 2727  
*Sphæria Chamæjasmes* Fuck. in Reis. nach Nordpolarf. III, et Oudem. Contr. Fl. Myc. Now. Seml. p. 152, tab. II, fig. 5. — Peritheciis gregariis, raro sparsis, sub epidermide nidulantibus, demum subliberis, minutis, atris, e basi globosa antice conicis, acutis; ascis oblongis, sessilibus, 8-sporis, 104  $\approx$  12; sporidiis oblique submonostichis, oblongis, rectis, utrinque obtusis, æqualiter didymis et ad septum facile diffractis, 16  $\approx$  6, hyalinis.

*Hab.* in caulibus exsiccatis *Androsaces Chamæjasmes*, Nowaja Semlja.

17. **Didymella nivalis** (Fuck.) Berl. et Vogl. Add. Syll. p. 88, *Sphæria* 2728  
*nivalis* Fuck. in Die zweite deutsch. Nordpolarf. p. 93, t. I, f. 5. — Peritheciis sub foliorum cauliumque aridorum epidermide albescente nidulantibus, gregariis, minutis, globosis, aterrimis, ostiolo atro, acuto, prominulo; ascis oblongo-ovatis, utrinque attenuatis, tunica crassa præditis, 8-sporis, 94  $\approx$  20; sporidiis conglobatis subdi-



stichisve, oblongis, inæqualiter didymis, utrinque obtusis, ad septum parum constrictis, hyalinis,  $20 \approx 8$ .

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

18. **Didymella Rehmiana** Bäuml. Mycol. III, p. 1. — Peritheciis gregariis sub epidermide dealbata nidulantibus, demum prominulis, globosis, fuscis, ostiolo rotundato pertusis,  $100-120 \mu$ . diam., contextu grosse parenchymatico, fuligineo; hyphis septatis  $4 \mu$ . cr., basi cinctis; ascis tereti-clavatis, breve pedicellatis, 8-sporis,  $45-50 \approx 8-10$ ; sporidiis distichis,  $10-18 \approx 4-5$ , utrinque rotundatis, rectis curvulisve, primo continuis demum 1-septatis, medio non constrictis, hyalinis; paraphysibus vix visibilibus.

*Hab.* in caulibus aridis *Euphorbiæ palustris* pr. St. Georgium, Pressburg Austriæ.

19. **Didymella cornuta** Ell. et Ev. Proc. Phil. 1890, p. 232. — Peritheciis sparsis, minutis,  $175-200 \mu$ . diam., sub epidermide late atrata ostiolisque prominentibus perforata nidulantibus; ascis cylindræis, subsessilibus,  $65-70 \approx 7$ ; paraphysibus immixtis; sporidiis biseriatis, fusoides, flavidis, leniter curvulis, 1-septatis constrictisque, demum 3-septatis,  $20-25 \approx 3-3,5$ , utrinque subobtusis.

*Hab.* in caulibus emortuis *Asclepiadis Cornuti*, London Canada (DEARNESS). — «Si sporidia constanter 3-septata, species ad *Leptosphæriam* ducenda videtur».

## II. Arboricolæ.

20. **Didymella Cocciferæ** H. Fab. Sphér. Vaucl. II, p. 43, f. 12. — Peritheciis parce gregariis, nunc corticulis et semiinfossis, nunc ligniculis et superficialibus globosis v. conoideis, vertice porulo pertusis,  $\frac{1}{2}-\frac{2}{3}$  mm. latis; ascis paraphysibus filiformibus dense obvallatis, cylindræis, stipitatis, 8-sporis, parte sporifera,  $100 \approx 12$ ; sporidiis oblique monostichis, bi-conoideis, hyalinis, medio septatis constrictisque,  $18-20 \approx 8-9$ .

*Hab.* ad ramos exaridos *Quercus Ilicis* humifusos in apricis Vaucluse Galliæ.

21. **Didymella vagans** H. Fab. Sphér. Vaucl. II, p. 45, f. 16. — Peritheciis laxè sparsis, solitariis epidermide nigrificata tectis, dein nudis, globosis,  $\frac{1}{3}-\frac{1}{2}$  mm. latis, vertice hemisphæricis et porulo hiantè pertusis; ascis dense paraphysatis, clavatis, stipitatis, 8-sporis,  $120-140 \approx 14-18$ ; sporidiis distichis, bi-conoideis medio con-

strictis septatisque, hyalinis, 4-guttatis, guttis binis intermediis multo majoribus, 27-30  $\approx$  10.

*Hab.* ad ramulos dejectos *Quercus cocciferæ* et *Ericæ arboreæ*, Vaocluse Galliæ.

22. **Didymella clavulata** Ellis Amer. Nat. 1883, p. 318. — Peritheciis membranaceis globosis,  $\frac{1}{9}$ - $\frac{1}{6}$  mm. diam. rugosis, folio innatis, utraque pagina prominulis; ostiolo diametrum perithecii æquante, cylindraceo apice subclavato pertuso; ascis oblongo-cylindraceis, p. sporif. 35-40  $\approx$  5-6, aparaphysatis; sporidiis distichis, oblongo-fusoideis, acutis, 4-nucleatis, denique inæqualiter 1-septatis et obtusiusculis, 7,5-9  $\approx$  2, flavidulis. 2733

*Hab.* in pagina super. foliorum *Quercus* (nigræ?), Newfield N. J. Amer. bor.

23. **Didymella australis** H. Fab. Spher. Vaubl. II, p. 44, fig. 14. — Peritheciis nunc sparsis, nunc congestis, cortice infixis, epidermide tectis, dein erumpentibus, seminudis, globosis, vertice poro pertusis,  $\frac{1}{2}$ - $\frac{2}{3}$  mm. latis; ascis paraphysibus densis, filiformibus et longioribus circumdatis clavatis, longe et tenue stipitatis, 8-sporis, 90-150  $\mu$ . longis, parte sporifera, 90  $\approx$  14-18; sporidiis farctis, hyalinis, bi-conoideis, medio septatis coustrictisque; loculis binis plerumque 2-nucleatis, 25  $\approx$  10. 2734

*Hab.* ad ramos emortuos *Celtidis australis*, Vaocluse Galliæ.

24. **Didymella lophospora** Sacc. et Sp. Syll. I, p. 561 — \***echinophila** Sacc. Mich. II, p. 595. — A typo differt ostiolo paullo longiore; ascis angustioribus (spor. 14-18  $\approx$  4-5, appendiculatis; ascis 60-70  $\approx$  6-7). 2735

*Hab.* in spinis involucrorum *Castaneæ*, Lyon Galliæ (TERRY).

25. **Didymella acerina** H. Fab. Spher. Vaubl. II, p. 44, f. 13. — Peritheciis sparsis superficialibus vel semiimmersis, lignum denudatum et fuligineo-inquinatum incolentibus, globulosis,  $\frac{1}{2}$  mm. latis, vertice poro pertusis; ascis dense paraphysatis, cylindraceis, breve stipitatis, 8-sporis, 100-130  $\approx$  10-12; sporidiis oblique monostichis, hyalinis, medio septatis, constrictisque, altera dimidia parte conoidea, altera semiovata et crassiori; loculis binis multi-guttulatis, 18  $\approx$  7. 2736

*Hab.* ad plagas ramorum resectorum *Aceris monspessulani*, in silvis Vaocluse Galliæ.

26. **Didymella Eurillæ** Pass. Fungi nuovi, IV, pag. 4, n. 8. — Peritheciis tectis, cortici interiori insculptis, globoso-depressis, ostiolo brevi acuto, contextu celluloso fuligineo; ascis clavatis, attenuato- 2737

stipitatis, paraphysatis, 8-sporis,  $80 \approx 15$ ; sporidiis distichis, fusiformibus, utrinque acutis, medio septatis, plus minusve constrictis, hyalinis, loculis biguttulatis  $18-20 \approx 5-6$ .

*Hab.* in ramulo sicco Juglandis, Vigheffio prope Parma (EURILLA PASSERINI).

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

*Hab.* in ramis Salicis, Sutton Coldfield prope Birmingham Britannia.

28. **Didymella canadensis** Ell. et Ev. Proc. Phil. 1890, pag. 232. — Peritheciis inæqualiter sed crebre sparsis, cortice nidulantibus eumque leviter elevantibus ostiolisque minutis papillatis nigris perforantibus, intus albis, globosis,  $\frac{1}{3}$  mm. diam.; ascis tereti-clavatis,  $75-90 \approx 12-15$ , copiose paraphysatis; sporidiis stipato-distichis, cylindræis, obtusis, hyalinis, 4-nucleatis, medio distinctius leviterque prope utrumque apicem constrictis,  $25-34 \approx 6-7$ .

*Hab.* in trunco emortuo Salicis, London Canada (J. DEARNESS).

— «An *Metasphæria*?»

29. **Didymella Mali** Ell. et Ev. Proc. Phil. 1890, p. 232. — Peritheciis sparsis,  $\frac{1}{4}$  mm. diam., cortice infossis, ostiolo acute conico tantum emergente; ascis clavato-cylindræis,  $70 \approx 7$ , copiose paraphysatis; sporidiis biseriatis, fusoideis, leniter curvis, 4-nucleatis, hand constrictis,  $20-22 \approx 3$ , utrinque acutis.

*Hab.* in cortice interiore relaxato Piri Mali viventis, Newfield N. J. Amer. bor. — «An *Zignoella* vel *Metasphæria*?»

30. **Didymella hypophloea** Pass. Diagn. Fung. nuovi, I, n. 40. — Peritheciis sparsis, punctiformibus ovatis, fuscis, opacis, ostiolo acuto; ascis oblongo-clavatis,  $75 \approx 10$ , paraphysibus filiformibus æquantibus intermixtis; sporidiis oblique monostichis, fusiformibus, medio septatis, non constrictis, apicibus acutis,  $15 \approx 2,5$ , hyalinis.

*Hab.* in cortice interiore Piri Mali, Vigheffio pr. Parma.

31. **Didymella Celastri** Brun. Champ. Saint. V, p. 2. — Peritheciis

approximatis, membranaceis, in cortice nidulantibus lignoque basi leviter insculptis, tectis, denique erumpentibus, globoso-depressis, perforatis, nigris,  $\frac{1}{5}$  mm. diam.; ascis cylindræo-clavatis v. subfusoides,  $60 \approx 8-10$ , octosporis; sporidiis distichis vel oblique monostichis, oblongo-elongatis, utrinque rotundatis, hyalinis, 1-septatis, vix constrictis,  $12 \approx 4$ .

*Hab.* in ramulis emortuis *Celastris scandentis*, Rochefort Galliæ.

32. **Didymella Opuntia** Pat. Bull. Soc. Myc. 1888, p. 112. — Peri- 2743  
theciis sparsis, majusculis, 1-1,5 mm. diam., nigris, globosis, poro pertusis, subcutaneis, dein superficialibus; ascis clavatis, sessilibus, 100-150  $\approx$  30-40, crasse tunicatis, 8-sporis; sporidiis distichis utrinque obtusis, medio septatis et profunde constrictis, hyalinis, granulosis, loculis subconoideis.

*Hab.* in foliis putridis *Opuntia*, Caracas Venezuelæ.

33. **Didymella nigrificans** Karst. in Hedw. 1884, n. 1, p. 3. — Rev. 2744  
atque Synop. Ascom. fenn. pag. 60. — Peritheciis densissime congestis, cuticula nigrificata, demum fissa tectis, subsphæroideis, basi cupulato-collapsis, pertusis, atris, glabris, circ. 2 mm. diam.; ascis cylindræis, stipitatis, pseudo-paraphysatis, 70-100  $\approx$  6; sporidiis octonis, monostichis, oblongatis vel ellipsoideis, 1-rarissime 3-septatis, eguttulatis, chlorino-hyalinis, nitido strato mucoso obvolutis, 11-15  $\approx$  4-5.

*Hab.* in ramis emortuis *Rosarum* in Mustiala Fennia.

34. **Didymella Rauii** (Ell. et Ev) Berl. et Vogl. Add. Syll. p. 86, *Sphæ-* 2745  
*ria* Ell. et Ev. in Torr. Bot. Club. 1883, p. 90. — Peritheciis sparsis v. 2-3 in cortice interiore coalitis, epidermide laxè tectis, demum eam ostiolo papillæformi perforantibus; ascis 30-35  $\approx$  6-7; paraphysibus gracilibus; sporidiis distichis, oblongo-fusoides, 1-septato-constrictis, leniter curvulis, utrinque appendicula minuta præditis, luteolis, binucleatis, 7-8  $\approx$  5.

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

35. **Didymella eriostoma** Sacc. in Mout. Ascom. Lièg. II, p. 4, t. I, 2746  
f. 17. — Peritheciis sparsis, atris, globoso-depressis,  $\frac{1}{3}$  mm. diam., tectis, ostiolo papillato, fasciculo setularum brevium coronato; ascis tereti-clavatis, copiose filiformi-paraphysatis, 8-sporis, 90-100  $\approx$  12; sporidiis mono- vel subdistichis, oblongo-fusoides, vulgo rectis, medio septatis, leniter constrictis, 4-guttatis, 20-22  $\approx$  6-7, hyalinis, utrinque appendicula brevi 2  $\mu$ . long. auctis.

*Hab.* in ramulis *Sarothamni scoparii*, Gomzè, Tilff etc. Belgii. — *D. Genistæ* affinis.

36. **Didymella buxicola** H. Fab. Sphér. Vaucl. II, pag. 44, fig. 15 — 2747

Peritheciis dense gregariis, cortici infossis, nonnullis autem hinc illinc fere superficialibus, globosis,  $\frac{1}{3}$  mm. latis; ostiolis crassis, breve cylindræis aut conicis, inæqualibus, corticem immutatum v. cinereo-infuscatum exasperantibus; ascis paraphysibus densis circumdatis, 8-sporis, plerisque clavatis, breve aut longissime stipitatis, parte sporifera  $90 \approx 12$ , connullis autem cylindræis  $120 \approx 9$ ; sporidiis in ascis clavatis distichis, in cylindræis submonostichis oblongis, hyalinis, utrinque obtusis, medio constrictis et subtile septatis, 4-magni-guttatis; altera dimidia parte perpaullo crassiori  $20-25 \approx 6$ .

*Hab.* ad caudices et ramos emortuos *Buxi sempervirentis*, Vaucluse Galliæ.

37. **Didymella Olearum** H. Fab. Sphér. Vaucl. II, p. 43, fig. 11. — 2748

Peritheciis rugis matricis prominentibus et atro-inquinatis infossis, nunc solitariis nunc seriatim gregariis, globosis,  $\frac{1}{2}$  mm. latis, matricem in pustulas cinereo-atras, ad latera compressas, 1 mm. et ultra longas inflantibus; ostiolo brevi, papilliformi, eximie nitido; ascis dense paraphysatis, brevissime stipitatis, cylindræis, 8-sporis,  $120-150 \approx 6-7$ .

*Hab.* ad truncos emortuos *Oleæ europææ*, in ligno denudato, Avignon Galliæ (TH. DELACOUR.)

38. **Didymella maculiformis** Winter in Hedw. 1884, pag. 169. — Pe. 2749

Peritheciis amphigenis, densissime stipatis, greges maculiformes, irregulares, magnos, sæpe confluentes, usque 6 cm. latos formantibus, immersis, punctiformibus, e basi globosa, brevissime conicis, poro simplici pertusis, epidermide circa verticem vix prominentem nigrefacta tectis; sporidiis distichis, cylindræis, inæqualiter didymis, ad septum parum constrictis hyalinis,  $26-30 \approx 5-6$ ; ascis oblongis, brevissime stipitatis, sursum parum attenuatis, 8-sporis,  $78-82 \approx 16-17$ , paraphysibus conglutinatis.

*Hab.* in foliis emortuis *Proteæ grandifloræ* prope Capetown in Promontorio Bonæ Spei.

39. **Didymella truncata** Karst. Rev. Myc. 1889. — Peritheciis di- 2750

spersis, erumpenti-superficialibus, conoideo-truncatis, poro latiusculo, atris, 0,2-0,3 mm. diam.; ascis cylindræo-clavatis,  $130-150 \approx 12-14$ , 8-sporis; sporidiis distichis, ovoideo-elongatis, inæquilate-

ralibus, 1-septatis, ad septum leviter constrictis, subhyalinis, 26-33  $\approx$  5-7; paraphysibus numerosis, ramosis, 0,5  $\mu$ . cr.

*Hab.* ad virgulta in Minas Geraes Brasilæ (EDW. WAINIO).

### III. Monocotyledonicolæ.

40. **Didymella? Carphæ** Speg. F. Fueg. n. 205. — Maculis nullis; 2751  
peritheciis sparsis v. laxissime gregariis globoso-lenticularibus, 130-150  $\mu$ . d., epidermide velatis, atris, glabris, membranaceo-coriacellis, contextu densiuscule parenchymatico fuligineo, ostiolo vix papillulato obtuso; ascis cylindræis, apice truncato-rotundatis crassiuscule tunicatis, basi breviter attenuato-pedicellatis, 55-60  $\approx$  6-7, paraphysibus crassiusculis guttulatis immixtis, octosporis; sporidiis elliptico-ovoideis, v. subbiconicis, utrinque obtusiusculis, 10  $\approx$  4,5-5, primo continuis hyalinis, dein diblastis pallide fuscescentibus.

*Hab.* ad scapos vaginasque *Carphæ schœnoidis* in Staten island Fuegiæ.

41. **Didymella glacialis** Rehm Beitr. Ascom. Hedw. 1882, p. 121. — 2752  
Peritheciis minutis, globosis, atris parenchymate foliorum denigrato immersis ejusque superficiem papilla conoidea atra vix superantibus, gregariis; ascis clavatis, 8-sporis, 50  $\approx$  9; sporidiis ellipticis, subacutatis, inæquilateralibus, 2-cellularibus, utraque cellula magno nucleo instructa, hyalinis, distichis, 12  $\approx$  3; paraphysibus filiformibus.

*Hab.* ad folia graminea sicca prope Taschach-Glestcher in valle Piz alpium Tirolensium, alt. c. 2000 metr. (DR. REHM).

42. **Didymella arctica** (Fuck.) Berl. et Vogl. Add. Syll. p. 88, *Sphæria* 2753  
Fuck. Die 2<sup>e</sup> Deutsche Nordpolarf. II, 94, et Oudem. Contr. Fl. Myc. Now. Seml. p. 152, tab. III, fig. 4. — Peritheciis in macula cinerescente gregariis, seu lineari-dispositis, erumpentibus, globoso-conicis, minutis, aterrims, demum perforatis; ascis fasciculatis, oblongis, contortis, sessilibus, tunica crassa præditis, 72  $\approx$  17, octosporis; sporidiis imbricato-distichis, oblongis, utrinque parum attenuatis, rectis, uniseptatis, ad septum constrictis, loculis inæqualibus, biguttulatis, 24  $\approx$  8, hyalinis.

*Hab.* in foliis exsiccatis *Poæ alpinæ*, Nowaja Semlja.

43. **Didymella pachyspora** Bomm. Rouss. Sacc. sp. nov. — Peritheciis sparsis, globulosis, glabris, initio velatis, dein erumpentibus, 2754  
intus griseolis, poro pertusis; ascis oblongis, sessilibus, 60-75  $\approx$  15, octosporis, obsolete paraphysatis; sporidiis late ellipsoideis, 14-18  $\approx$  9, mono-distichis, 1-septatis, non constrictis.

*Hab.* in foliis *Festucæ glaucæ*, Comblain au pont Belgii.

## IV. Acotyledonicolæ.

44. **Didymella Chamæcyparissi** Rehm in Voss Mat. Pilzk. IV, p. 10, 2755  
fig. 5. — Peritheciis globosis, immersis, gregariis, minutis, apice  
haud perspicue pertusis, contextu parenchymatico; ascis clavatis,  
6-8-sporis,  $60 \approx 12$ ; sporidiis distichis, hyalinis, 1-septatis, subcon-  
strictis, 12-15  $\approx$  5, cellula superiore latiore, 4-nucleatis; paraphy-  
sibus filiformibus, 3  $\mu$ . cr.

*Hab.* in foliis emortuis *Lycopodii Chamæcyparissi* pr.  
Laibach Carniolæ.

45. **Didymella Ulothii** (Körber) Berl. et Vogl. Add. Syll. p. 89, *Didymo-* 2756  
*sphæria* Winter in Hedw. 1886, p. 26, *Cercidospora Ulothii* Kör-  
ber, Parerga p. 466. — Peritheciis minutissimis, sparsis v. subgre-  
gariis, thallo omnino immersis, globosis, vertice tantum pertuso, de-  
mum depresso, parum prominulis, atris; ascis cylindricis, deorsum  
parum attenuatis, 4-8-sporis, 70-80  $\approx$  10; sporidiis oblique mono-  
stichis, fusoides, utrinque acutis, bicellularibus, hyalinis, 16-20  $\approx$  5;  
paraphysibus numerosis, filiformibus.

*Hab.* in thallo apotheciisque *Placodii saxicoli* in Ger-  
mania.

46. **Didymella epipolytropa** (Mudd.) Berl. et Vogl. Add. Syll. p. 89, 2757  
*Didymosphæria* Winter in Hedw. 1886, p. 26, *Thelidium epipo-*  
*lytropum* Mudd. Manual of Brit. Lichen. pag. 298, *Cercidospora*  
*epipolytropa* Arnold in Flora 1874, pag. 154. — Peritheciis spar-  
sis, punctiformibus, minutissimis, immersis vel semiimmersis, globo-  
sis, atris, sub microscopio viridi-atris, vertice subdepresso et perfo-  
rato; ascis breve cylindræis v. oblongo-clavatis, 4-8-sporis; pa-  
raphysibus distinctis, tenuibus, filiformibus, subramosis; sporidiis  
elongato-oblongis, fere fusiformibus, bicellularibus, hyalinis, 15-  
18  $\approx$  4-5.

*Hab.* in thallo discoque apotheciorum *Lecanoræ polytro-*  
*pæ* in Germania.

47. **Didymella sphinctrinoides** (Zwackh) Berl. et Vogl. Add. Syll. p. 89, 2758  
*Didymosphæria* Winter in Hedwigia 1886, pag. 26, *Endococ-*  
*cus sphinctrinoides* Zwackh in Flora 1864, pag. 88. — Perithe-  
ciis.... indescriptis; ascis cylindræis, angustis, 6-8-sporis, 74-78  
 $\approx$  10-12; sporidiis bicellularibus, hyalinis, 18-22  $\approx$  6-7; paraphysi-  
bus filiformibus.

*Hab.* parasitice in *Lecanora subfusca* in Germania. — Var.

**Immersæ** (Arnold) Berl. et Vogl. l. c., *Endococcus sphinctrinoides* var. *Immersæ* Arn. Lichen. Fragm. XVI, p. 25, t. II, f. 14 in Flora 1874, *Didymosphæria sphinctrinoides* var. *Immersæ* Winter in Hedw. 1886, p. 26: Peritheciis immersis, semiimmersis, minutis, globosis, atris; sporidiis oblongis, bicellularibus, hyalinis,  $18 \approx 6$ ; ascis cylindræis, octosporis; paraphysibus distinctis, capillaribus. In thallo *Lecidellæ immersæ* in Germania.

**HARIOTIA** Karst. Journ. Bot. 1889, p. 206 (Etym. a cl. botanico P. HARIOT). — Perithecia carbonacea, erumpentia, glabra, rimâ subdehiscentia, atra. Asci cylindræo-clavati, polyspori. Sporidia (24) ovoidea, 1-septata, hyalina. Paraphyses nullæ.

1. **Hariotia strobiligena** (Desm.) Karst. l. c., *Sphæria* Desm. XIII, Not. p. 75, *Didymella* Sacc. Syll. I, p. 552. — Asci 105-120  $\approx$  12-15, jodo non cærulescentes; sporidia disticha 12-18  $\approx$  4-6. 2759

*Hab.* in conis dejectis Pini maritimæ in Gallia occident. — *Dichænam strobilinam* in memoriam revocat.

**GNOMONIA** Ces. et De Not. — Sacc. Syll. I, p. 501.

1. **Gnomonia euphorbiacea** Sacc. et Briard in Rev. Myc. 1885. — 2760  
Peritheciis sparsis, epidermide tectis, sphæroideis, basi cupuliformi vel excavata,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. diam.; ostiolis punctiformibus, epidermidem perforantibus eique adhærentibus; ascis oblongis, subfusiformibus, breviter stipitatis, octosporis, 72-88  $\approx$  12; sporidiis monostichis vel centro distichis, ovato-oblongis, obtusis, 1-septato-constrictis, biguttulatis, rectis vel leniter curvulis, 14-16  $\approx$  6, hyalinis.

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

2. **Gnomonia tithymalina** Sacc. et Briard in Rev. Myc. 1885. — 2761  
Peritheciis numerosis, plus minusve gregariis, sub epidermide nidulantibus, sphæroideis, basi cupulata v. excavata,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; ostiolis obtusis, epidermidem leniter nigrefactam perforantibus; ascis cylindræo-fusiformibus, sessilibus, 40-44  $\approx$  8-10, octosporis; sporidiis oblique distichis, oblongis, obtusis, 1-septato-constrictis, 4-guttulatis, rectis v. vix curvulis, 13-15  $\approx$  4-5, hyalinis.

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

3. **Gnomonia Amygdalinæ** Fuck., Sacc. Myc. Sibir. p. 12, f. 8, *Gnomoniella* Sacc. Syll. Fung. I, p. 418. — Perithecia lageniformia



obtuse rostellata,  $\frac{1}{4}$  mm. lat.; asci 36-40  $\approx$  6-7; spor. subfusoidea, 16-18  $\approx$  3-3,5, matura distincte 1-septata; hinc vera *Gnomonia* nec *Gnomoniella*. — Viget quoque in caulibus emortuis *Euphorbiæ* lutescentis in campis pr. Meticowo Sibiriaë.

4. **Gnomonia Gei** Pat. et Doass. Tab. An. Fung. Fasc. IV, pag. 214, 2762 fig. 495. — Peritheciis sparsis, epidermide tectis, ostiolo filiformi, valde elongato præditis; ascis brevibus, sessilibus, 26  $\approx$  5, sursum truncatis; paraphysibus nullis; sporidiis bacillaribus, acicularibus, 1-septatis, septo vix constrictis, hyalinis, 12-14  $\approx$  1.

*Hab.* in caulibus *Gei pyrenaici*, Les Eaux Bonnes Galliaë.

5. **Gnomonia borealis** Schroet. Nord. Pilze p. 11. — Peritheciis late 2763 laxe gregariis, epidermide pustulata tectis, 0,6 mm. lat., globulosis, collapsis, nigris, ostiolo subulato, 0,2 mm. long., erumpente; ascis copiosis, fusoideis, sessilibus, 44-50  $\approx$  10-12, 8-sporis; sporidiis distichis, elliptico-fusoideis, 15-17  $\approx$  4-5, utrinque rotundatis, medio 1-septatis leniterque constrictis, 2-4-guttulatis, hyalinis.

*Hab.* in caulibus vetustis *Geranii silvatici*, Magerö, Nordcap Norvegiaë.

6. **Gnomonia carpophila** Bomm. Rouss. Sacc. sp. nov. — Peritheciis 2764 sparsis, subseriatis vel 4-5 consociatis, subepidermicis, dein erumpentibus, glabris, conoideis, 300-360  $\mu$ . diam., ostiolo perithecium superante, tereti-papillato, sæpe curvulo; ascis clavatis; sporidiis distichis, oblongo-fusoideis, 1-septatis, loculis subinæqualibus, pluriguttulatis, hyalinis, 18  $\approx$  3,5.

*Hab.* in capsulis *Cœnotheræ biennis*, Groenendael Belgii.

7. **Gnomonia Rubi** Rehm Ascom. n. 596, Wint. in Hedw. 1887, p. 62. 2765 — *G. tetraspora* \* *Rubi* Rehm — Syll. I, p. 562. — Peritheciis sparsis, immersis, globosis, rostro crasso cylindrico, longo ornatis, 180-200  $\mu$ . diam.; ascis subfusoideis, sessilibus, 45-52  $\approx$  8-9, tetrasporis; sporidiis subdistichis, inæqualiter fusoideis, utrinque breve appendiculatis, 1-septatis non vel vix constrictis, 4-guttulatis, 14-16  $\approx$  3,5.

*Hab.* in foliis dejectis *Rubi fruticosi*, Zürich Helvetiaë (WINTER).

8. **Gnomonia spermogonioides** Rehm Ascom. Ill. n. 944, Sydow. Myc. 2766 march. 1355 (sub *Ceratosphæria*). — Peritheciis gregariis, in cortice interiore nidulantibus, globosis, viridifuscis vel fuscis, 0,2-0,3 mm. lat., collo filiformi, 0,3 mm. longo, peridermium perforante et prominente, demum peridermio lacerato denudatis; ascis teneris, ellipticis, 36  $\approx$  9, 4-8-sporis; sporidiis bacillaribus, obtusis, rectis

v. subcurvatis, 2-cellularibus, utraque cellula binucleata, hyalinis, 12-15  $\approx$  2,5, distichis; paraphysibus filiformibus, nucleatis, longis, c. 3  $\mu$ . lat.

*Hab.* ad sarmenta putrescentia Rubi agrestis prope Berolinum (SYDOW).

9. **Gnomonia Magnoliæ** Ell. Am. Nat. 1883, pag. 318. — Peritheciis 2767 majusculis foliorum parenchymate immersis, rufis, subulato-conicis, ostiolo tantum visibili; ascis oblongo-ellipsoideis, 40  $\approx$  7-8; sporidiis fusioideis, acutis, pallide stramineis, obscure nucleatis, 11-19  $\approx$  2.

*Hab.* in foliis dejectis Magnoliæ glaucæ, Newfield N. J. Amer. bor. — «An potius *Gnomoniella*?»

10. **Gnomonia acerina** Starb. Skand. Pyr. p. 17, t. I, f. 6. — Peri- 2768 theciis hypophyllis, sparsis, minutis, 250  $\mu$ . diam., siccis hemisphærico-prominulis, ostiolo gracili, brevi; ascis ellipsoideo-cylindræis, 65-75  $\approx$  12-18, sessilibus; sporidiis tereti-fusioideis, prope basin 1-septatis, loculo sup. 2-3-guttato, infero 1-guttato, curvulis, distichis, 18  $\approx$  6.

*Hab.* in foliis siccis Aceris platanoidis in horto botanico Upsaliensi Sueciæ. — *G. errabundæ* subaffinis.

11. **Gnomonia petiolophila** (Peck) Berl. et Vogl. Add. Syll. pag. 90, 2769 *Sphæria petiolophila* Peck in 35 Rep. St. Mus. Bot. 1884, p. 144. — Peritheciis minutis, sparsis primum epidermidè tectis, dein, ea perfossa, prominulis, ostiolo papillato v. breviter rostrato instructis, compresso-globosis, nigris; ascis subcylindræis, angustis 40-45  $\mu$ . long.; sporidiis anguste fusiformibus, utrinque acutis, distichis, 12-15  $\approx$  2, quandoque 3-4-nucleolatis.

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

12. **Gnomonia australis** Winter Contr. Fl. Myc. Lus. V, p. 14. — 2770 Peritheciis dense sparsis, hypophyllis, immersis, demum erumpentibus, globosis, membranæis, fusco-atris, 120-200  $\mu$ . diam., rostro crasso, cylindrico, apice sæpe parum compresso et incrassato, usque 180  $\approx$  20, instructis; ascis fusioideo-elongatis, 8-sporis, 56-60  $\approx$  8-9, sporidiis oblongis, utrinque parum attenuatis et rotundatis, inæquilateralibus, bicellularibus, 4-guttulatis, hyalinis, ad septum constrictis, 14-16  $\approx$  4-4,3.

*Hab.* ad Apolloniæ canariensis folia arida, Coimbra Lusitaniæ (MOLLER). — Var. **Lauri** Wint. l. c.: Peritheciis gregariis in macula indeterminata, obscuriore hypophylla; ascis deorsum in pedicellum brevem attenuatis, usque 78  $\mu$ . longis; sporidiis inter-

dum usque 18  $\mu$ . longis. Ad folia arida Lauri nobilis prope Coimbra Lusitaniæ.

13. **Gnomonia Sassafras** Ell. et Ev. in Torr. bot. Club. 1883, p. 98. 2771

— Peritheciis erumpentibus, hemisphæricis, circiter 200  $\mu$ . diam., in superficie inferiore foliorum sparsis; ostiolis filiformibus 200–250  $\mu$ . longis, contextu fibroso, sursum subhyalino, sæpe parum curvatis; ascis lanceolatis, curvis, aparaphysatis; sporidiis filiformibus, dilutissime flavidis, indistincte multinucleatis, 35–40  $\simeq$  1,7.

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

14. **Gnomonia perversa** Rehm Ascom. Ill. n. 795. — Peritheciis mi- 2772

nutissimis, sparsis, parenchymati foliorum immersis, nudo oculo vix punctiformiter paginam superiorem foliorum inquinantibus conspicuis eamque non elevantibus, haud rostratis, vertice punctiformi, atris, contextu parenchymatico fusco; ascis fusiformibus, in stipitem tenerum elongatis, 8-sporis, 60  $\simeq$  7; sporidiis 2–3-stichis, ellipticis, rectis vel interdum subcurvatis, haud acutatis, 2-cellularibus, utraque cellula 2-nucleata, hyalina, 12  $\simeq$  3,5; paraphysibus nullis.

*Hab.* ad folia putrida Alni glutinosæ prope Königstein a. Elbe Saxonix (W. KRIEGER). — An potius *Hypospilæ* species? *H. Rehmi* Sacc. proxima.

15. **Gnomonia coriacea** Cooke et Mass. Grev. XVIII, p. 35. — Pe- 2773

ritheciis minutis, in maculas orbiculares congestis, foliorum parenchymati innatis, ostiolo elongato, sursum leniter attenuato; ascis clavato-stipitatis, octosporis; sporidiis uniseptatis, obtusis, hyalinis, 10  $\simeq$  2–3.

*Hab.* in foliis coriaceis in Brasilia (GLAZIOU).

16. **Gnomonia? magellanica** Speg. F. Pat. n. 127. — Maculis nullis; 2774

peritheciis parenchymate innatis, tectis, amphigenis, sparsis, minutis, globosis, 100–250  $\mu$ . diam., glabris, ostiolo setiformi longiusculo exserto, elongatulo, levi, concolori; ascis et sporidiis ignotis.

*Hab.* ad folia dejecta putrescentia Fagi antarcticæ in silvis Voces bay Patagoniæ.

17. **Gnomonia Rhois** Rich. Cat. Champ. Marn. n. 1231. — Perithe- 2775

ciis subcutaneis, ostiolis spiniformibus erumpentibus; ascis basi attenuatis, aparaphysatis; sporidiis anguste fusiformibus.

*Hab.* in petiolis foliorum Rhois typhini, Saint-Amand Galliæ.

**REHMIELLA** Wint. Hedw. 1883, pag. 2 (Etym. a clariss. mycologo

Doct. H. REHM medico). — *Perithecia rostrata*, membranacea, immersa. Asci polyspori, aparaphysati. Sporidia didyma, hyalina. — A genere *Gnomonia* ascis polysporis in primis differt.

1. **Rehmiella alpina** Winter l. c. pag. 2. — Peritheciis sparsis immersis, globosis, ca.  $\frac{1}{2}$  mm. diam., glabris, atris, rostro elongato, cylindraceo, sæpe curvato usque  $\frac{1}{2}$  mm. longo, erumpentibus; ascis oblongatis, sessilibus, polysporis, 50-70  $\approx$  10-11; sporidiis inordinatis, oblongo-cylindraceis, infra medium uniseptatis et parum constrictis, 4-guttulatis, hyalinis, 10-12,5  $\approx$  2.

*Hab.* ad petiolos foliaque putrida *Alchemillæ alpinæ*, Rigi prope Luzern Helvetiæ (G. WINTER).

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

1. **Pharcidia Schæreri** (Mass.) Winter in *Hedwigia* 1886, pag. 11. *Epicymatia Schæreri* (Mass.) Sacc. *Sylloge fungorum* vol. I, pag. 571. — *Perithecia* sparsa, primo plus minusve immersa, demum emergentia, globosa, verticem versus parum attenuata, poro pertusa, membranacea, fusca, minutissima, punctiformia; asci oblongi, utrinque subattenuati, 8-spori, 30-40  $\approx$  12; sporidia conglobata, oblonga, subclavata v. bacillaria, 1-2-septata, hyalina, 12-14  $\approx$  3-3,5; paraphyses mucosæ, indistinctæ. — Var. **Croceæ** Arnold (in *Solorina crocea*); sporidiis 12  $\approx$  2-3.
2. **Pharcidia parvipuncta** (Stein) Wint. in *Hedw.* 1886, p. 14, *Sagedia parvipuncta* Stein *Flechten in Krypt. Flora von Schlesien* II, 2, pag. 339. — Peritheciis minutissimis, sessilibus, hemisphæricis v. conoideis, atris, nitidis, molliusculis, 30  $\mu$ . diam.; ascis subfusiformi-clavatis, membrana crassa præditis, 8-sporis; sporidiis fusiformibus, abrupte acutatis, 2-4-cellularibus, 12-18  $\approx$  4-5; paraphysibus mucosis, parum distinctis.

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

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

liptico-oblongis, utrinque rotundatis, medio distincte constrictis, 18-22  $\approx$  8-9.

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

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

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

5. **Pharcidia dispersa** (Lahm) Wint. in Hedw. 1886, pag. 13, *Arthopyrenia dispersa* Lahm in Körber Parerga pag. 388. — Peritheciis sparsis, minutissimis, globosis vel hemisphæricis, atris opacis, ostiolo parum distincto, subverruciformi; sporidiis octonis in ascis cylindrico-clavatis, breviter stipitatis, subsoleæformibus, bicellularibus, plerumque cellula superiori latiori, hyalinis, 13-15  $\approx$  4-5.

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

6. **Pharcidia Lichenum** Arnold Lichenol. Ausfl. in Tirol. VIII, p. 302 et Wint. in Hedw. 1886, p. 11. — Peritheciis sparsis vel gregariis, plus minusve immersis vel demum emergentibus, immo interdum fere superficialibus, globosis, poro simplici pertusis, minutissimis, membranaceis, fuscis; ascis oblongis, ventricosis utrinque parum attenuatis, substipitatis, 8-sporis, 33-42  $\approx$  12-14; sporidiis conglobatis, clavatis vel cuneatis, vertice rotundatis, bicellularibus, non constrictis, hyalinis, 12-15  $\approx$  3,5-4; paraphysibus mucosis.

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

7. **Pharcidia hygrophila** (Arnold) Wint. in Hedw. 1886, p. 14, *Endococcus hygrophilus* Arnold in Flora 1871, p. 147. — Peritheciis atris, subglobosis, supra thalli granulos dispersis, minimis; ascis elongato-ellipticis, sursum parum, deorsum magis stipitiformi-atenuatis; sporidiis elliptico-oblongis, utrinque attenuatis vel in uno apice late rotundatis, sæpe inæquilateralibus, 1-septatis, 15-18  $\approx$  5-6, octonis, hyalinis, non constrictis.

*Hab.* in thallo *Buellie rivularis* in Germania — Var. **Berengeriana** Arnold Lichenol. Ausfl. VI, pag. 1146: Peritheciis sat minutis, atris, globoso-emersis, dispersis; paraphysibus capil-

laribus; sporidiis 1-septatis, cum 2-4 guttulis oleosis, utroque apice plus minus cuspidatis, 22-28  $\approx$  5-6, 8 in ascis oblongis. In thallo Biatoræ Berengerianæ in Germania.

8. **Pharcidia Porocyphi** (Stein) Wint. in Hedw. 1886, p. 12, *Arthopyrenia Porocyphi* Stein Flechten in Krypt. Flora von Schlesien II, 2, pag. 343. — Peritheciis minutissimis, sessilibus, conoideis vel globosis, sine ostiolo distincto, atris, nitidis, 30  $\mu$ . diam.; ascis subfusiformibus, 8-sporis; sporidiis bicellularibus, ovoideo-ellipsoideis, cellula superiori plerumque parum majori, 6-8  $\times$  2-3.

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

9. **Pharcidia microspila** (Körber) Wint. in Hedw. 1886, p. 13, *Arthopyrenia microspila* Körber Parerga pag. 392. — Peritheciis minutissimis, primo immersis, demum emergentibus, tandem superficialibus, subglobosis, ostiolo papilliformi indistincto, atris, opacis, in maculis rotundatis irregularibusque, circ. 2-3 mm. latis, cinereo-atris, e mycelio fusco, breve articulato formati, gregariis; ascis oblongis vel elongato-oblongis, medio subventricosis, fere sessilibus, 8-sporis, 42-50  $\approx$  14; sporidiis inordinatis, cylindrico-cuneatis, 2 (rarissime 4)-cellularibus, haud constrictis, hyalinis, 15-17  $\approx$  4-5.

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

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

*Hab.* in thallo Aspiciliæ calcareæ in Germania.

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

*Hab.* in thallo Biatorinæ cyrtellæ in Germania.

12. **Pharcidia conspurcans** (Fries) Wint. in Hedw. 1886, p. 13, *Arthopyrenia conspurcans* Fries Lichen. Spitsb. p. 51. — Perithe-

ciis punctiformibus, semiemersis, atris; hymenio absque paraphysibus; sporidiis bicellularibus, incoloribus, utroque apice plus minus obtusis, sæpe cum 2 guttulis oleosis, 10-14  $\approx$  5, 8 in ascis ventricosis.

*Hab.* parasitica in thallo *Dimelænæ nimbosæ* in Germania.

13. **Pharcidia Badiæ** (Arnold) Winter in Hedw. 1886, p. 12, *Arthopyrenia Badiæ* Arnold Lichenol. Ausf. in Tirol. X, p. 13. — Peritheciis majusculis, hemisphæricis, emersis, non pertusis, atris; sporidiis elongatis, bicellularibus, hinc inde cum 4 guttulis oleosis, hyalinis, 15-16  $\approx$  4-5, 8 in asco; paraphysibus nullis.

*Hab.* in thallo *Lecanoræ badiæ* in Germania.

14. **Pharcidia Tabacinæ** Arnold in Flora 1881, p. 176 et Wint. in Hedw. 1886, pag. 12. — Peritheciis punctiformibus, semiemersis, atris, hymenio absque paraphysibus; sporidiis incoloribus, elongato-oblongis, 1-septatis, regulariter 4-guttulatis, 10-12  $\approx$  3, 8 in asco, medio inflatis.

*Hab.* in thallo *Psoræ tabacinæ* in Germania.

15. **Pharcidia Ahlesiana** (Hepp) Wint. in Hedw. 1886, pag. 14. *Saegedia Ahlesiana* Hepp in Zwackh Exsicc. 314, *Endococcus Ahlesianus* Zwackh in Flora 1862, pag. 572. — Peritheciis et ascis ignotis; sporidiis octonis, bicellularibus, interdum subcurvatis, semper incoloribus, utrinque subobtusis, 9-14  $\approx$  3-4.

*Hab.* in *Parmelia demissa* parasitica in Germania.

16. **Pharcidia cerinaria** (Mudd) Sacc. *Sphæria cerinaria* Mudd British Lichens p. 136. — Peritheciis perexiguis, punctiformibus, semiimmersis, nigris, solitariis, 10-12 in quoque disco apotheciorum insidentibus; ascis...?; sporidiis numerosis, oblongis, subconstrictis, bilocularibus, 3,7  $\approx$  1,8, pallide flavis; paraphysibus nullis.

*Hab.* in apotheciis *Lecanoræ cerinæ* pr. Ayton York Brit.

## LIZONIA Ces. et De Not. — Sacc. Syll. I, p. 574.

1. **Lizonia bertioides** Sacc. et Berl. in Rev. Myc. 1885, tab. LIV, fig. 5. — Peritheciis 2-5 acervulatis, stromate plano, rufescente insidentibus, sphæroideis, rugosiusculis, atris; ascis amplis, ovatis, crasse tunicatis, stipitatis, paraphysibus longioribus cinctis, 50-60  $\approx$  20-25, octosporis; sporidiis inordinate tristichis, oblongo-ovoideis, guttuligeris, demum didymis, 20  $\approx$  8, pallide luteis, dein fuscellis.

*Hab.* in pagina superiore foliorum *Compositæ corymbiferæ*

cujusdam, Santos Brasiliæ. — Sociis *Hypocreacea* quadam scolecospora (asci  $70 \approx 14$ ; sp.  $50-55 \approx 3$ ), *Polystigmina* (sp.  $40-50 \approx 2$  utrinque hamatæ), *Entomosporio*, quorum conceptacula omnino latent, et *Helotio* amœne aureo, immaturo.

2. **Lizonia abscondita** Johans. Svamp. fran Island. p. 167, t. XXIX, f. 9. — Peritheciis superficialibus, gregariis vel subsparis in nervis immersis foliorum insidentibus, subcoriaceis, atris, glabris, filis fuliginis a basi prodeuntibus, plerumque ovoideis, minutis,  $130-140 \approx 88-100$ ; ascis cylindræo-clavatis, vix vel brevissime pedicellatis, octosporis, paraphysibus nullis,  $54-70 \approx 16-20$ ; sporidiis distichis, pallide olivaceis, ovoideis, medio vel prope medio septatis et constrictis, membrana tenuissima,  $12-17 \approx 7-10$ . 2793

*Hab.* in pag. superiore foliorum exsiccatum Dryadis octopetalæ, Eskifjördur Islandiæ orient.

3. **Lizonia halophila** Bomm. Rouss. Sacc. sp. nov. — Peritheciis amphigenis, dense congestis, superficialibus, ovoideis, glabris,  $60-115 \mu$ . diam.,  $90-110 \mu$ . alt., poro pertusis; ascis saccatis vel obovatis, sessilibus, aparaphysatis,  $48-54 \approx 18-21$ , 8-sporis; sporidiis 2-stichis vel conglobatis, oblongis, uno apice tenuatis, 1-septatis, non constrictis,  $21-24 \approx 6-6,5$ , hyalinis. 2794

*Hab.* in foliis emortuis Honckeneayæ (Arenariæ) peploidis, Nieupart Belgii.

4. **Lizonia? inæqualis** Winter in Hedwigia 1885, p. 261. — Peritheciis amphigenis, soros rotundatos vel irregulares, sæpe compactos,  $\frac{1}{2}-10$  mm. latos formantibus, plerumque densissime stipatis, superficialibus, globosis, depressis, demum vertice impresso, umbilicato, verruculosis, atris, opacis, ostiolo minutissimo, pertuso, interdum brevissime papilliformi,  $210-240 \mu$ . diam.; ascis oblongis, sursum parum, deorsum magis attenuatis, stipite sublongo, gracili præditis, membrana apice valde incrassata, 8-sporis,  $70-75 \approx 19-20$ ; sporidiis subdistichis, ellipticis, 2-cellularibus, cellula superiore multo majori, elliptica, basi subtruncata, cellula inferiore apiculiformi, minutissima, primo hyalinis, demum pallide fuscidulis. 2795

*Hab.* in foliis vivis Compositæ adhuc ignotæ, scandentis (Mikanix spec.?) prope S. Francisco Brasiliæ (E. ULE).

5. **Lizonia Thalictri** Rost. Fungi Groen. p. 556. — Peritheciis ovoideis, coriaceo-membranaceis, papilla conoidea præditis, siccis collapsis; ascis crasse clavatis, apice crassissime tunicatis,  $110 \approx 45$ , brevissime pedicellatis; sporidiis octonis, 2-3-stichis, fusosideo-oblongatis, 1-septatis, 4-guttulatis, mucō hyalino obvolutis,  $45-50 \approx 10-13$ . 2796



*Hab.* in caulibus siccis *Thalictri alpini*, Umanak-fjord Groenlandiæ.

6. **Lizonia? guaranitica** Speg. Fung. Guar. Pug. I, n. 218. — Macu- 2797  
lis amphigenis, subarescentibus non v. obscure determinatis ex orbiculari irregulariter repando-angulosis, parvis, 2-5 mm. diam., sordide fuscis vel olivascentibus; peritheciis hypophyllis, laxiuscule gregariis, subsuperficialibus, basi matrici insculptis, primo lepidibus tectis, dein inter illas prominulo-subexsertis, globosis vel globoso-depressis, atris, glabris, levibus, 100-110  $\mu$ . diam., vertice minute perforato ostiolatis, membranaceo-subcoriacellis, contextu subcrasse parenchymatico, fusco-atro; ascis cylindraceo-obclavatis, antice truncato-rotundatis crassiuscule tunicatis, postice abrupte breviterque attenuato-stipitatis, 45-50  $\approx$  7-10, aparaphysatis, 8-sporis; sporidiis hyalinis, 2-3-stichis, fusoideis vel elongato-ellipticis, 18  $\approx$  2,5, utrinque subtruncato-rotundatis, rectis, inæquilateralibus, medio 1-septatis, non constrictis, primo loculis 2-3-blastis dein eguttulatis, supero sæpe obtusiore ac crassiore.

*Hab.* ad folia languida *Styracis* speciei cujusdam in dumetis prope Borjas Brasiliæ. — An novum genus?

7. **Lizonia? paraguayensis** Speg. Fungi Guar. Pug. I, n. 219. — Ma- 2798  
culis nullis; peritheciis hypophyllis in glomerulos sparsis vel laxe gregariis, rarius confluentibus, parvulis, 0,5-1 mm. diam., dense constipatis, basi sæpius confluenti-cæspitosis, superficialibus, globosis vel elliptico-globosis, 100-110  $\approx$  70-80, umbonato-ostiolatis, levibus, tomento vel pruinula alba vel fusca laxè adspersis, in sicco sæpe collapsis, membranaceo-subcoriaceis, contextu parenchymatico, atro-fuligineo, subopaco; ascis ovatis vel obclavatis, apice obtuse rotundatis vel subtruncatis, crasse tunicatis, basi abrupte subcoarctato-stipitellatis, 50-80  $\approx$  15-20, aparaphysatis, 8-sporis; sporidiis 2-3-stichis vel subinordinatis, elliptico-elongatis vel subfusoideis, utriusque obtusiuscule rotundatis, 27-29  $\approx$  6,5 medio 1-septatis, non constrictis, æquilateralibus, rectis vel curvulis, eguttulatis, hyalinis.

*Hab.* ad folia viva *Styracis* speciei cujusdam in silvis apud pagum Rica Brasiliæ. — An novum genus?

8. **Lizonia Jacquinia** Br. et Har. Rev. Myc. 1891, pag. 16. — Pe- 2799  
ritheciis superficialibus, globulosis, perpusillis, 90-100  $\mu$ . diam., nigris, conglomeratis, greges minutos, epiphyllis oculo nudo perithecium singulum  $\frac{1}{2}$  mm. diam. simulantes, formantibus; ascis ovoideis, sessilibus, 8-sporis, 20-24  $\approx$  12-14; sporidiis conglobatis,

tereti-oblongis, 1-septatis, obtusis, hyalinis, ad septum vix constrictis, 12-13  $\approx$  3.

*Hab.* in foliis *Jacquinia* armillaris in insula Jamaica (herb. BERKELEY).

9. **Lizonia Sphagni** Cooke Grev. XVIII, p. 86. — Peritheciis sparsis, 2800 subglobosis, nigris, prominulis, ostiolo mamillato, mox superficialibus; ascis clavatis; sporidiis cylindræis polo uno vel utroque leniter curvis, 1-septatis, dein 3-septatis?, hyalinis, 40-50  $\approx$  8.

*Hab.* in foliis dejectis *Sphagni*, Maine in Amer. bor.

**PSEUDOLIZONIA** Pir. N. G. Bot. it. 1889, p. 315 (Etym. *pseud* falsus et *Lizonia*). — Perithecia carbonacea, discreta vel aggregata, subsphærica, breviter papillata, levia, apice mycelii rhizomorphici, insidentia. Asci 16-spori, paraphysati. Sporidia didyma, fuscescencia. — A gen. *Lizonia* ascis polysporis diversa.

1. **Pseudolizonia Baldinii** Pir. loc. cit. — Peritheciis subsphæricis, 2801 cellulis minutis, polygonis contextis, ostiolo brevi papilliformi; ascis crebris, tereti-clavatis, uno latere convexulis, 122-136  $\approx$  14-18, brevissime pedicellatis; paraphysibus clavulatis, subseptatis, simplicibus, ascum subæquantibus, evanidis; sporidiis subdistichis, didymis, subfusoides, inæquilateris, dilute fuliginis, 22-29  $\approx$  8-9, loculo superiori majori.

*Hab.* in foliis periandricis *Polytrichi* communis, Allumiere prope Roma Italia (T. A. BALDINI).

**MELANOPSAMMA** Niessl — Sacc. Syll. I, p. 675.

1. **Melanopsamma Saccardiana** Bomm. et Rouss. in litt., Sacc. Misc. 2802 Myc. I, pag. 18. — Peritheciis gregariis, minutis,  $\frac{1}{6}$  mm. diam., subglobosis, obtuse papillatis, atris, glabrescentibus, sed hyphis dematiaceis (propriis?) rigidulis, fuliginis, plerumque cinctis; ascis subcylindricis, aparaphysatis vel spurie paraphysatis, 60-70  $\approx$  5-7, apice rotundatis, deorsum attenuatis breviterque stipitatis, octosporis; sporidiis oblique monostichis v. distichis, breve oblongis, utrinque obtusiusculis, diu continuis, tandem distincte constricto 1-septatis, 7-8  $\approx$  4, 2-4-guttulatis, hyalinis.

*Hab.* in ligno fagineo putrescente, Groenendael Belgii. — Socia adsunt *Helminthosporium apiculatum* et *Lasiosphæria hispida*.

2. **Melanopsamma Grevillii** Rehm in Starb. Bid. Sver. Ascom. p. 5, 2803 t. I, f. 1. — Peritheciis dense gregariis, superficialibus, primo obconicis, superne applanato-convexis, deinde patellæformiter conca-

viusculis, ascomata *Tympanidis* in memoriam revocantibus, astomis, valde rugulosis vel fere verrucosis, 0,4-0,5 mm. diam., pilis fusco-atris, in juventute perithecii, conidiophoris?, obsessis; ascis e stipite longo filiformi late clavatis, 8-sporis, 40-50  $\approx$  8-10; sporidiis ovoideis vel ovoideo-ellipsoideis, uniseptatis, non constrictis, loculis uni-magni- vel pluri-guttulatis, hyalinis, 7-10  $\approx$  3,5-5; paraphysibus guttulatis, gracilibus, non satis perspicuis.

*Hab.* ad ramos corticatos Pruni Padi prope Johanneslund Ostrogothiæ (GREVILLIUS). — *M. pomiformi* subaffinis.

3. **Melanopsamma? lophiostomoides** Speg. F. Pat. n. 126. — Peri- 2804  
 ritheciis sparsis vel laxe gregariis subseriatis, matrice totaliter immersis, globoso-ovoideis, 300-350  $\mu$ . diam., atris, carbonaceis, ostiolo papillulato tantum matricis superficiem attingente non vel vix exserto, rotundo vel compressiusculo, rimose dehiscente (an semper?); ascis cylindraceutis, apice obtuse rotundatis crasseque tunicatis, basi in stipitem breviusculum nodulosum attenuato-productis, 130-140  $\approx$  13-14, octosporis, paraphysibus densissimis filiformibus obvallatis; sporidiis oblique monostichis, fusoideo-ellipticis, 24-26  $\approx$  7-8, medio 1-constricto-septatis, primo loculis grosse 2-3-nucleatis ac bis coarctatis (an tetrablastis?), dein simplicibus, levibus, utrinque obtusiusculis, minute subimperspicueque apiculatis, strato mucoso tenuissimo obovolutis, hyalinis vel fumosis.

*Hab.* in trunco decorticato fluctato secus Rio Galegos in loco Kilik-aiken vocato, Patagoniæ. — Ad *Lophiostomata* nonnihil vergens, notis tamen fructificationis *Melanopsammæ europææ* Sp. peraffinis.

4. **Melanopsamma obtusa** Karst. Hedw. 1888. — Peritheciis sparsis, 2805  
 emergendo elevatis, semiimmersis, conoideo-rotundatis vel oblongatis, sæpe vertice depressis, atris, subnitentibus, dein poro pertusis, 0,3 mm. diam.; ascis cylindraceuto-clavatis, 95-135  $\approx$  11-12 8-sporis; sporidiis monostichis, ovoideo-ellipsoideis, utrinque obtusis, medio constricto-septatis, eguttulatis, chlorino-hyalinis, 16-18  $\approx$  6-9; paraphysibus numerosis, coalescentibus, vix 1  $\mu$ . cr.

*Hab.* in ligno Betulæ? ad Vasam Fenniæ.

5. **Melanopsamma ampulligera** Karst. et Starb. Ascom. nov. fenn. p. 2. 2806  
 — Peritheciis levibus, gregariis, basi immersis, sphæroideo-conoideis, ostiolo, solito papillato, perforatis, glabris, atris, 0,2-0,3 mm. latis; ascis cylindraceutis, inferne inflatis, stipite breviusculo, ut plurimum obliquo, 60-66  $\approx$  15-16; sporidiis di- vel (inferne) tristichis,

fusoideo-oblongatis, rectis, uniseptatis, ad septum constrictis, loculis uniguttulatis, hyalinis, 18-24  $\approx$  5-8; paraphysibus coalitis.

*Hab.* ad corticem vetustum Betulæ in ditone Mustialensi, Fennicæ (K. STARBAECK).

6. **Melanopsamma salicaria** (Karst.) Sacc. *Sph. salicaria* Karst. Myc. 2807

Fenn. II, p. 95. — Peritheciis gregariis, cortici plus minus immer-  
sis, peridermio disjecto, vertice denudatis, sphæroideis vel sphæroi-  
deo-depressis, ostiolo minuto, papillato, opacis, tenacellis, glabris,  
nigris, circiter 0,6 mm. lat.; ascis cylindræo-subclavatis, 160-  
170  $\approx$  12-15, octosporis; sporidiis monostichis, ellipsoideis, unisepta-  
tis, ad septum leviter constrictis, chlorino-hyalinis, 18-22  $\mu$ . lon-  
gis; paraphysibus coalescentibus.

*Hab.* in ramis aridis Salicis fragilis prope Abo Fennicæ. —

\* **M. fallax** Sacc. et Br. Miscell. Myc. II, pag. 22, n. 93: A typo  
recedit sporidiis minoribus, nempe 12-14  $\approx$  6-8, et matrice super-  
ficie dealbata. In cortice Salicis albæ, Troyes Gallicæ (BRIARD).

7. **Melanopsamma syringica** Karst. Fragm. M. F. XXIII, pag. 1. — 2808

Peritheciis aggregatis, primitus cortice tectis, dein, ea divulsa, nu-  
datis, superficialibus, ovoideis, conoideis, rotundatis vel mutua pres-  
sione forma varia, poro pertusis vel rarius ostiolo subpapillato,  
atris, 0,3-0,4 mm. diam.; ascis clavatis, 105  $\approx$  18, 8-sporis; spori-  
diis distichis, ovoideis vel fusoideo-oblongatis, rectis, 1-septatis,  
2-guttulatis, ad septum constrictis, chlorino-hyalinis, 15-20  $\approx$  7-8;  
paraphysibus ascos superantibus, 2  $\mu$ . cr.

*Hab.* ad ramos exsiccos Syringæ vulgaris in horto Mustia-  
lensi Fennicæ.

8. **Melanopsamma incrustans** Pass. Diagn. Fung. nuovi, I, n. 41. — 2809

Peritheciis gregariis, contiguis, atro-incrustantibus, subconoideis,  
opacis, ostiolo simplici pertuso; ascis oblongo-clavatis, paraphysi-  
bus tenuibus obvallatis, 8-sporis, 82-90  $\approx$  18,5; sporidiis distichis  
fusiformibus, medio septatis et arcte constrictis, loculis biguttula-  
tis, hyalinis, 22-27  $\approx$  5.

*Hab.* in ligno sicco denudato Persicæ, Vigheffio pr. Parma.  
— Sporidia ut in *Zignoella Campi-Silii* sed majora.

9. **Melanopsamma graopsis** (Ellis) Sacc. *Sphæria graopsis* Ellis Torr. 2810

Bot. Cl. 1882, p. 73. — Peritheciis sparsis, erumpentibus, mem-  
branaceis, globosis vel subelongatis, denique subcollabascentibus,  
250-370  $\mu$ . diam. rugulosis fibrillisque ligneis albicantibus consper-  
sis, ostiolo papillato, leniter circumsulcato; ascis oblongis, subgib-  
bis, sessilibus, 50-58  $\approx$  20-25, aparaphysatis; sporidiis octonis, inor-

dinatis, oblongo-navicularibus, hyalinis dein pallide flavido-fuscellis, plasmate bipartito, 20-25  $\approx$  8.

*Hab.* in ramis decorticatis Pini, New Jersey Amer. bor. — Ad *Amphisphæriam* forte nutat.

10. **Melanopsamma hypophlœa** Pass. Fung. nuovi, IV, p. 4, n. 9. — 2811

Peritheciis superficialibus, sparsis, carbonaceis, globoso-conoideis, ostiolo papillari nitidulo; ascis leniter clavatis, attenuato-stipitatis, paraphysatis, 8-sporis, 75-80  $\approx$  10; sporidiis distichis, naviculari-elongatis, hyalinis, medio septatis et constrictis, utrinque acutis, loculis biguttulatis, 18-20  $\approx$  5.

*Hab.* in cortice detracto ramorum Pini austriacæ, Vigheffio prope Parma.

11. **Melanopsamma cupressina** Ell. et Ev. in Journ. of Myc. 1886, 2812

p. 103. — Peritheciis superficialibus, gregariis,  $\frac{1}{4}$ - $\frac{1}{2}$  mm. diam. vel elongatis et subhysterioideis, rugosis, carbonaceo-membranaceis, sursum poro late pertusis (verisimiliter primo ostiolo prominulo donatis); ascis clavato-cylindræis, 70-75  $\approx$  10-12, paraphysibus filiformibus obvallatis, octosporis; sporidiis hyalino-luteolis, clavato-oblongis, 1-septatis, circiter 12  $\approx$  4.

*Hab.* in ligno dealbato Cupressi in Amer. bor. (LANGLOIS).

12. **Melanopsamma australis** Pass. Diagn. Fung. nuovi, I, n. 42. — 2813

Peritheciis superficialibus, subglobosis, astomis? atris; ascis brevibus sacculatis, membrana crassiuscula, paraphysibus parcis, æquantibus cinctis, 8-poris, 25  $\approx$  7,5; sporidiis lagenæformibus, medio septatis et constrictis, loculo altero rotundato, altero angusto, subacutis, hyalinis, 9-12  $\approx$  5.

*Hab.* in ramulis siccis Juniperi, Vigheffio pr. Parma.

13. **Melanopsamma Amphisphæria** Schulz. et Sacc. in Rev. Myc. 1884, 2814

Schulz. Ill. Fung. Slav. n. 110. — Peritheciis dense gregariis, superficialibus nigris, levissimis, globosis vel globoso-conicis,  $\frac{1}{5}$ - $\frac{1}{3}$  mm. diam., ostiolo obtuse conico; ascis cylindricis, paraphysatis, brevissime stipitatis, octosporis; sporidiis recte vel oblique monostichis, ellipsoideis, constricto 1-septatis, 17  $\approx$  8, hyalinis (extra ascos subinde 3-septatis).

*Hab.* in ramis decorticatis Cydoniæ vulgaris prope Vin-kovce Slavoniæ.

14. **Melanopsamma hyalodidyma** Cooke Trans. Roy. Soc. Edin. 1887, 2815

p. 391. — Sparsa, immersa; peritheciis subglobosis, atris, ostiolo punctiformi emergente; ascis cylindræis; sporidiis ellipticis, uniseptatis, 12-14  $\approx$  7 $\frac{1}{2}$ .

*Hab.* in ligno, Socotra.

15. **Melanopsamma borealis** Karst. — Syll. I, p. 578. — Var. **minor** 2816

— Cooke Grev. XVII, p. 79. — Peritheciis sparsis vel gregariis, minutissimis, basi insculptis, supra convexis nigris, levibus, subpapillatis; ascis cylindraceutis; sporidiis monostichis, anguste ellipsoideis, 2-guttulatis, dein tenuiter 1-septatis, hyalinis,  $6 \approx 2,5$ .

*Hab.* in ligno emortuo, Shere Britanniaë (CAPRON).

16. **Melanopsamma cubigena** Berk. Cooke Grev. XVI, pag. 92, *Sph.*

Ceylon!

*obtusissima* B. et C. — Syll. II, p. 411. — Sporidia lanceolata, 1-septata, medio constricta, nucleata, hyalina,  $45-50 \approx 6-8$ .

17. **Melanopsamma nipæcola** Cooke et Mass. Grev. XVI, pag. 92. — 2817

Peritheciis gregariis, magnis  $1-1\frac{1}{2}$  mm. diam., atris conoideis, papillatis, basi applanatis; ascis clavatis, stipitatis; sporidiis biserialibus, lanceolatis, medio uniseptatis, hyalinis,  $35 \approx 7$  (potius immaturis).

*Hab.* in cortice Nipæ, Java (KURZ).

18. **Melanopsamma emergens** Schulz. et Sacc. in Rev. Myc. 1884, 2818

Schulz. Ill. Fung. Slav. n. 616. — Peritheciis laxè gregariis, ligno semiimmersis globulosis, sursum conicis, minutis,  $1-2$  mm. diam., carbonaceis, minute verruculosis, atris; ostiolo obtusiusculo, perforato; ascis tereti-clavulatis, subsessilibus, filiformi-paraphysatis, octosporis; sporidiis distichis oblongis, sæpe curvulis, utrinque rotundatis, medio constrictis, 4-guttulatis,  $14-21 \approx 4,5$ , hyalinis.

*Hab.* ad ligna quercina prope Vinkovce Slavoniaë.

19. **Melanopsamma numerosa** Fautrey Rev. Myc. 1891, pag. 76. — 2819

Peritheciis copiosis, superficialibus, sparsis v. confertis, initio sphaericis, nigris, rugulosis, dein collabascendo concavo-cupularibus; ascis fusoides, tunica fragili; sporidiis cylindraceutis, rotundatis, 1-septatis, 4-guttulatis,  $15-17 \approx 3$ , hyalinis.

*Hab.* in ligno decorticato Carpini ad sepes, Noidan Galliaë. — Habitus fere *M. pomiformis*.

20. **Melanopsamma Romelliana** Sacc. Add. Syll. p. 97. — Peritheciis spar-

sis v. subgregariis, primum sphaeroideis, demum collapsis, subastomis, superficialibus, nitidis, levibus,  $\frac{1}{3}-\frac{1}{4}$  mm. diam.; ascis clavatis, apice nonnihil attenuatis, sessilibus vel breviter pedicellatis,  $33-48 \approx 7-9$ , octosporis; sporidiis subdistichis vel in medio conglobatis, spurie 1-septatis, primo 4-guttulatis, medio vix constrictis,  $7-10 \approx 3-4\frac{1}{2}$  (plerumque  $8-9 \approx 3\frac{1}{2}$ ), hyalinis.

*Hab.* in corbis Orchidearum in calidario Horti botanici Upsaliensis Sueciaë (ROMELL).

21. **Melanopsamma subfasciculata** (Schw.) Cooke Grev. XV, p. 83, 2821

*Sphæria* Schw. — Sacc. Syll. 4309. — Sporidia ellipsoidea, uniseptata, hyalina, 20  $\approx$  8.

22. **Melanopsamma conospora** B. et C. in Herb. Berk. 9727, Cooke Grev. XV, p. 82. — Sporidia piriformia, inæqualiter uniseptata, pallide fusca, 8  $\approx$  4.

**THAXTERIA** Sacc. (Etym. a cl. mycologo boreali-americo R. THAXTER), *Bizozzeria* Speg. F. Puigg. n. 277 (1889) nec Sacc. (1885). — Perithecia superficialia, globosa, coriacea, atra. Asci octospori paraphysati. Sporidia botuliformia, 1-septata, ex hyalino chlorina. — An melius *Allantosporis*, una cum *Cacosphæria* Speg., adscribendum genus?

1. **Thaxteria didyma** (Speg.) Sacc. *Bizozzeria didyma* Speg. F. Puigg. 2822 n. 277. — Peritheciis dense constipatis, superficialibus, atris, glabris, 0,5-0,7 mm. diam., breviter crasseque stipitulatis, mox profunde umbilicato-collapsis; ascis clavulatis, longe stipitatis, octosporis, paraphysatis, 65-70  $\approx$  10-12 parte spor., stip. 110-130  $\approx$  2-5; sporidiis allantoideis, 1-septatis, fumoso-chlorinis, 20  $\approx$  6.

*Hab.* ad corticem crassiorem putrescentem arborum in silvis prope Apiahy Brasiliæ. — Jodi ops nulla! Species nobilissima habitu fere lichenino, primo obtutu, *Trichosphæriæ acanthostromæ* (Mont.) Sacc. (*Sphæria foveolata* B. et R.) simillima sed mox subiculi setularumque defectu dignoscenda.

**BERTIA** De Not. — Syll. I, p. 481.

1. **Bertia collapsa** Rom. F. aliq. Suec. p. 24. — Peritheciis vulgo 2823 dense gregariis, subiculo fusco, hyphis ramosis intricatis, 6  $\mu$ . cr. composito, sed sæpe deficiente insidentibus, sub lente evidenter et amœne rugulosis, glabris, obconicis, convexis, papillatis, demum collapsis-cupulatis, nigris,  $\frac{2}{3}$ - $\frac{3}{4}$  mm. diam.; ascis clavatis vel piriformibus, apice rotundatis, tenuissime tunicatis, 8-sporis, 35-50  $\approx$  10-12; sporidiis conglobatis vel subtristichis, oblongis, hyalinis, rectis, biguttulatis, demum 1-septatis, 12-18  $\approx$  4-5; paraphysibus.... non visis.

*Hab.* in cortice interiore relaxato truncorum prostratorum Sorbi Aucupariæ prope Upsala Sueciæ.

**VENTURIA** Ces. et De Not. — Sacc. Syll. I, p. 587.

1. **Venturia chlorospora** (Ces.) Karst. — Sacc. Syll. I, p. 586, — Var. **canescens** Karst. Myc. fenn. II, pag. 190, *Sphærella canescens*

Karst. Fung. Fenn. exsicc. 895. — A typo differt sporidiis dilu-  
tissime luteolis, angustioribus, 14-20  $\approx$  6. — In foliis Salicis acu-  
tifoliæ vetustis, Mustiala Fennicæ.

2. **Venturia Genistæ** (Fuck.) Wint. in Hedwgia 1885, p. 26, *Didymella Genistæ* Sacc. Syll. I, p. 546. — Perithecia ostiolo brevi, apice setarum fasciculo brevissimarum, strictarum, atrarum coronato prædita; asci 80-95  $\approx$  8-9; sporidia 13-14  $\approx$  4-5.
3. **Venturia antarctica** Speg. F. Fueg. 207. — Maculis nullis; peri- 2824  
theciis superficialibus subglobosis, 60-90  $\mu$ . diam., sparsis v. laxe gregariis, atris, levibus, ad partem superam pilis brevissimis carbonaceis, atris, opacis, rigidulis, acutis, basi non v. vix incrassatis, 40-45  $\approx$  3-4, laxe vestitis, coriacellis, contextu sinuoso-parenchymatico, densissimo parum distincto, fuligineo, ostiolo minuto pertuso; ascis subfusoides antice truncatis, crassiuscule tunicatis, bifoveolatis, postice attenuatis ac pedicello crassiusculo suffultis, 25-27  $\approx$  4-5, octosporis, aparaphysatis; sporidiis recte vel oblique distichis nonnihil inæquilateralibus vel subcurvulis, medio 1-septatis ac leniter constrictis, loculis subæqualibus vel supero non vel vix majore, utrinque obtusiusculis, 6-7  $\approx$  2-2,5 minute 4-guttulatis, hyalinis.

*Hab.* ad hypophyllum foliorum putrescentium Maytæni prope Shammacus Fuegiæ.

4. **Venturia? fuegiana** Speg. F. Fueg. n. 209. — Maculis nullis; pe- 2825  
ritheciis hinc inde laxe gregariis, ligno denudato insidentibus, subglobosis (siccis collapsis), parvulis 110-130  $\mu$ . d., pilis carbonaceis aculeiformibus acutis, opacis, basi non incrassatis, 25-40  $\approx$  5, præcipue in parte supera laxa vestitis, membranaceo-coriaceis, contextu subindistincto atro, ostiolo impresso perforato; ascis obclavatis, antice rotundato-subtruncatis, crassiuscule tunicatis, 1-foveolatis, deorsum subcoarctato-rotundatis, brevissime minuteque stipitatis, 40-45  $\approx$  5, octosporis, aparaphysatis; sporidiis recte v. oblique distichis, elliptico-elongatis, quandoque non vel vix obovatis, utrinque obtuse rotundatis 11-12  $\approx$  3, rectis vel leniter inæquilateralibus, diblastis, hyalinis.

*Hab.* ad ramos dejectos decorticatos putrescentes Fagi betuloidis in Staten island Fuegiæ. — *Eriosphæricæ exiguæ* Sacc. peraffinis; generi *Venturiæ* præcipue paraphysibus deficientibus adscribenda.

5. **Venturia elastica** Pass. Diagn. Fung. nuovi, III, n. 13. — Peri- 2826  
theciis superficialibus, minutis, setulosis, atris, hypophyllis, in se-



ries lineares transversim digestis vel sparsis; ascis cylindricis, 8-sporis, elongatis; sporidiis biserialibus, ovalibus, medio septatis, hyalinis,  $7,5-8 \approx 3$ .

*Hab.* in foliis putridis Fici elasticæ, Parma in Horto botanico.

6. **Venturia Straussii** Sacc. et Roum. in Rev. Myc. 1884, pag. 95, 2827 tab. LXVII, fig. 2, Patouill. Tab. Anal. Fung. III, p. 133, fig. 299, *Chætomium pusillum* Strauss in Sturm Deut. Pilze III, 34 (nec Fries). — Peritheciis hinc inde congestis, superficialibus, subiculo setoso, fusco, subrepente insidentibus setisque rigidulis, fuligineis, subrectis, septatis undique vestitis, ostiolo obsoleto; ascis teretibus, brevissime stipitatis,  $90 \approx 16$ , non vel spurie paraphysatis, octosporis; sporidiis subdistichis, obovato-oblongis, constricto-1-septatis, loculo infero tenuiore, minute quadriguttatis, lenissime chlorinis,  $16-20 \approx 8-9$ .

*Hab.* in ramulis foliisque vivis Ericæ scopariæ in silvis pineis, Bordeaux Galliæ.

7. **Venturia Gaultheriæ** Ell. et Ev. in Journ. of Myc. 1885, p. 155. 2828 — Maculis orbicularibus, brunneis,  $\frac{1}{3}$  mm. diam., centro sæpius griseis; peritheciis sparsis, orbicularibus,  $75 \mu$ . diam., membranaceis, contextu crasse parenchymatico, sursum setis paucis, nigris, continuis, rectis, divergentibus,  $35 \approx 3$ , præditis; ascis ovato-oblongis,  $30-35 \approx 8-11$ , basi incrassatis curvulisque, sessilibus, paraphysatis; sporidiis biserialibus, subhyalinis, ovato-oblongis, 3-4-nucleatis, 1-septatis, ad septum parum constrictis.

*Hab.* in foliis vivis Gaultheriæ procumbentis, Newfield Amer. bor.

8. **Venturia Cassandræ** Peck 38 Rep. St. Mus. p. 104, t. 2, fig. 11-14. 2829 — Maculis rufo-brunneis v. brunneis, sæpe centro griseis; peritheciis amphigenis, minutis,  $70-80 \mu$ . diam., nigris, setis minutis, rectis, paucis, divergentibus,  $30-40 \mu$ . longis sursum auctis; ascis oblongis, sursum leniter constrictis,  $40-45 \approx 8-10$ ; sporidiis distichis, oblongis, quadrinucleatis, medio uniseptato-constrictis,  $12 \approx 5$ , hyalinis.

*Hab.* in foliis vivis Cassandræ calyculatæ, Caroga Americæ borealis.

9. **Venturia ilicifolia** Cooke. — Sacc. Syll. I, p. 588. Diagnosis nova a Winter relata (confr. Hedwigia 1885, p. 98) a nostra non differt nisi setulis peritheciis longioribus, nempe  $100-120 \approx 15$ ; hinc species nostra ut typi varietas **breviseta** censenda est.

10. **Venturia Grossulariæ** (Auersw. et Fl.) Sacc. Syll. I, pag. 589,

Winter in Hedwigia 1885, pag. 99. — Asci plerumque obclavati i. e. e basi latiori sursum parum attenuati, 35-40  $\simeq$  9.

11. **Venturia curviseta** Peck in 35 Rep. St. Mus. Bot. 1884, p. 145. 2830

— Peritheciis numerosis, minutis 75-100  $\mu$ . diam., coacervatis vel subgregariis, nigris, apice 5-8 setis nigris, divergentibus, basi abrupte curvatis, 75-125  $\mu$ . longis, auctis; ascis oblongis, sursum attenuatis, sæpe leniter curvulis, 40-50  $\mu$ . l.; sporidiis stipatis v. distichis, oblongis, 10,5-12,5  $\simeq$  4-5, hyalinis, parte superiore crassiore.

*Hab.* in foliis languidis *Nemopanthis canadensis* Fenter Amer. bor.

12. **Venturia Arctostaphyli** Cooke et Harkness in Grev. XIII, p. 20. 2831

— Amphigena, sparsa, atra; peritheciis subglobosis, superficialibus, strigosis, 120-150  $\mu$ . diam., pilis rigidis, acicularibus, 80  $\mu$ . long.; ascis obclavatis, sessilibus, octosporis; sporidiis ellipticis, utrinque rotundatis vix constrictis, uniseptatis, flavidis, 12-15  $\simeq$  5.

*Hab.* in foliis emortuis *Arctostaphyli* in California.

13. **Venturia elegantula** Rehm in Hedwigia 1885, pag. 241. — Peri- 2832

theeciis ut in *V. Myrtilli*, sed majoribus, sparsis vel confertis, sessilibus aut primitus immersis: vertice setis simplicibus, acutis, fuscis, 60-120  $\simeq$  4 præditis, parenchymate fusco contextis; ascis pseudopiriformibus, latis, basi sessilibus, 8-sporis, 75-90  $\simeq$  15-21; sporidiis distichis, oblongis, obtusis, 2-cellularibus, cellulis æqualiter longis, sæpe 2-nucleolatis, supera latiore, medio vix constrictis, viridulis, 15-21, plerumque 24-27  $\simeq$  6-7; paraphysibus paucis, intricatis.

*Hab.* ad folia putrida *Vaccinii Myrtilli* supra Gampenhöfe prope Sulden ad montem Ortler in Tirolia (DR. REHM).

14. **Venturia ditricha** (Fr.) Karst. — Syll. I, p. 587. — Var. **fra-** 2833

**xinicola** Rehm Ascom. n. 792. — Peritheciis parenchymaticis, brunneis, apice setulas circ. 12, simplices, obtusulas, brunneas 45-60  $\mu$ , long. gerentibus; ascis piriformibus sessilibus, sursum attenuatis, 8-sporis, 50  $\simeq$  9; sporidiis distichis, clavatis 1-septatis, loculo sup. crassiore longiore, flavidis, 10  $\simeq$  4,5; paraphysibus ramulosis.

*Hab.* in foliis *Fraxini* in Germania.

15. **Venturia aggregata** Winter in Hedw. 1884, p. 172. — Perithe- 2834

ciis amphigenis, superficialibus, 2-20 (rarius pluribus) densissime aggregatis, stromatis minuti, rotundati, verruciformis, extus atris, intus cinnabarini superficie insidentibus, depresso globosis, demum cupuliformibus, parcissime setulosis, ostiolo vix conspicuo perforatis, atris; ascis copiosis, clavatis, longe pedicellatis, apicem versus

parum attenuatis, 8-sporis, paraphysibus filiformibus, numerosis, obvallatis, 60-80  $\approx$  19-21; sporidiis inordinate subdistichis, elliptico-oblongis, plerumque inæquilateralibus, medio uniseptatis et parum constrictis, demum pallidissime fuscidulis, 16-17  $\approx$  8-9.

*Hab.* in foliis..... prope S. Francisco Brasiliæ (E. ULE).

16. **Venturia socia** Sacc. et Berl. in Rev. Myc. tab. LIV, f. 4, bis. 2835  
— Peritheciis globosis, 200-300  $\mu$ . diam., membranaceis, subastomis, contextu laxo, olivaceo, setuligeris; setis erectis, subulatis, quandoque apice recurvatis, continuis, subhyalinis; ascis subclavatis v. subfusoides, 30-40  $\approx$  10, octosporis, sessilibus, aparaphysatis; sporidiis distichis, oblongis, utrinque rotundatis, guttuligeris vel spurie uniseptatis, 10  $\approx$  4, hyalinis.

*Hab.* in pag. infer. foliorum..... in subiculo Asterinæ cujusdam, Santos in Brasilia. — *V. nobili* propinqua, a qua setulis subhyalinis etc. differt.

17. **Venturia cupulata** Ell. et Mart. Am. Nat. Bot. 1884, p. 69. — 2836  
Peritheciis hypophyllis, sparsis, astomis, 300  $\mu$ . diam., basi setosis, apice calvis collapsisque; setis brunneo-nigris, 210  $\approx$  6; ascis oblongis, 48  $\approx$  12, octosporis; sporidiis obovato-hyalinis, distichis, uniseptatis, 12-13  $\approx$  4-4½.

*Hab.* in foliis vivis *Quercus laurifoliæ*, New Florida Americæ borealis.

18. **Venturia applanata** Ell. et Mart. in Am. Nat. Bot. 1884, p. 69. 2837  
— Peritheciis hypophyllis, lentiformibus, 100  $\mu$ . diam., centro pertusis, contextu celluloso, subradiato, setis brunneis, parce septatis, 12-15, erectis, 70-100  $\mu$ . longis, præditis; ascis oblongis, 40  $\approx$  10-12; sporidiis di-tristichis, ovato-oblongis, 1-septatis, flaveolis, 10-12  $\approx$  3.

*Hab.* in foliis vivis *Magnolie glaucæ*, New Florida Americæ borealis.

19. **Venturia Petasitidis** (Fuck.) Sacc. Syll. I, p. 592, Winter in Hedwigia 1885, p. 98. — Ascis oblongi, utrinque parum attenuati sessiles, 8-spori, 43-50  $\approx$  9-10.

20. **Venturia Balansæ** Speg. Fungi Guar. Pug. I, n. 220. — Macu- 2838  
lis nullis; peritheciis hypophyllis, sparsis, globosis, parvulis, 80-90  $\mu$ . diam., atris, setulis erectis, raris, cylindræis, rectis, pluriseptatis, apice obtusis, basi subincrassatulis, 30-120  $\approx$  4-5, dilute fusco-fuligineis vestitis, vertice minutissime impresso-ostiolatis, in sicco sæpe cupulato-collapsis, tenuiter membranaceis, contextu obscure parenchymatico-fuligineo, subiculo radiante, parcissimo, ex

hyphis tenuissimis, continuis, fuscescentibus, simplicibus composito insidentibus; ascis cylindræis, apice rotundatis, crassiuscule tunicatis, basi breve attenuato-stipitatis,  $45-50 \times 4,5-5$ , paraphysibus filiformibus, superne ramulosis, laxè obvallatis, 8-sporis; sporidiis hyalinis, recte et alterne distichis, elliptico-fusoideis, utrinque acutiuscule rotundatis,  $10-12 \times 2-2,5$ , rectis v. subinæquilaterali-curvulis, medio 1-septatis, constrictulis, loculis minute 2-guttulatis, supero sæpius paullulo breviorè, crassiorè obtusiorèque.

*Hab.* ad folia viva *Dichondræ* repentis in umbrosis silvæ Caa-guazù Brasilæ.

21. **Venturia palustris** Sacc. Bomm. et Rouss. in Bull. Soc. R. Bot. 2839 Belg. 1886, p. 172. — Peritheciis epiphyllis, sparsis, subsuperficialibus, sphæroideis vel subsphæroideis,  $\frac{1}{10}$  mm. diam., nigris, pilis variis, brevibus ornatis, macula brunneo-purpurea insidentibus; ascis subsessilibus, curvatis,  $45-51 \times 9$ , centro inflatis, utrinque attenuatis; sporidiis hyalinis, irregulariter didymis, subfusoideis, 4-guttulatis uni- vel subbiseriatis, septo leniter constrictis,  $12-15 \times 5$ .

*Hab.* in foliis languescentibus *Comari palustris*, Ottignies Belgii. — A *V. Potentillæ* macula brunneo-purpurea, ascis fusiformibus, sporidiis hyalinis præcipue differt.

22. **Venturia Potentillæ** (Fries) Sacc. Syll. I, pag. 594, Winter in Hedwigia 1885, p. 98. — Ascis oblongo-cylindræas,  $40-45 \times 8-10$ ; sporidia subdisticha, oblongo-ovoidea seu piriformia, infra medium uniseptata, pallide viridula,  $12-14 \times 4-5$ .

23. **Venturia islandica** Johans. Svamp. fran Island. p. 168, t. XXIX, 2840 fig. 10. — Peritheciis plerumque hypophyllis, sparsis, superficialibus, nigris, subsphæroideis vel ovoideis, in superiore parte setulis nigris, paucis (7-10),  $100-135 \mu$ . longis ornatis; ascis ovoideo-elongatis, plerumque inæquilateralibus, paraphysatis, sessilibus, octosporis,  $54-57 \times 18-20$ ; sporidiis distichis vel conglobatis, ovoideis vel ovoideo-elongatis, prope basim septatis, ad septum non constrictis, hyalinis,  $19-24 \times 6-8$ , loculo majore  $15-20 \times 3-5$ .

*Hab.* in foliis emortuis *Dryadis octopetalæ*, Eskifjordur Islandiæ orientalis.

24. **Venturia nubigena** Speg. Rev. Myc. 14, p. 78. — Peritheciis amphigenis, atris, minutis  $80-100 \mu$ . diam., innato-erumpentibus, hemisphærico-subglobosis, ubique laxè pilosis; pilis erectis, rigidulis, continuis vel 1-2-septatis,  $30-50 \times 5$ , fuligineis, apice obtusis; contextu perithéciorum parenchymatico, coriaceo-membranaceo, fuligineo-atro; ascis non visis; sporidiis subclavato-ovoideis, utrinque

obtusiusculis, medio 1-pseudoseptatis, non constrictis,  $12 \approx 4$ , hyalinis.

*Hab.* in foliis emortuis Arenariæ tetrapetræ in summis montibus pr. Vigan Galliæ, socio *Helminthosporio nubigeno* Speg.

25. **Venturia glomerata** Cooke — Syll. I, p. 592. — Var. **disseminata** Schröt. Nord. Pilze p. 10. — Peritheciis hypophyllis, sparsis, infossis, 60-80  $\mu$ . diam., globulosis, collapsis, vertice setulis nigris,  $33 \approx 4$ , copiosis coronatis; ascis sessilibus, 26-30  $\approx$  5-7, octosporis; sporidiis elongato-clavatis, 8-9  $\approx$  3, bilocularibus, e hyalino olivaceis.

*Hab.* in foliis emortuis Geranii silvatici, Magerö Nordcap Norvegiæ.

26. **Venturia Niesslii** Sacc. — Syll. I, p. 593 — \***nigella** Sacc. Mich. II, p. 607. — Peritheciis dense gregariis erumpentibus globulosis, 110-120  $\mu$ . diam., ostiolo setulis brevissimis obtusiusculis munito; ascis tereti-obclavatis, 50-60  $\approx$  14-15, octosporis; sporidiis cuneatis, 16-18  $\approx$  6, loculo infero multo minori, olivaceis.

*Hab.* in caule infuscato Gentianæ luteæ, Le Sapey (Isère) Galliæ, socia *Phoma Niesslii* (THERRY).

27. **Venturia circinans** (Fr.) Sacc. Syll. I, p. 592. Huc spectant, teste cl. Winter (Hedwigia 1885, p. 98), *Venturia glomerata* et *Dothidea Robergei*. — Sporidia 4,5  $\mu$ . tantum lata.

28. **Venturia anthophila** Passer. Erb. critt. Ital. Ser. II, p. 1369. — Peritheciis sparsis, superficialibus, prominulis, globoso-conicis, atris, opacis parce setulosis; ascis aparaphysatis, rectiusculis, ovato-oblongis, circiter 60  $\approx$  12; sporidiis oblongis, didymis, medio subconstrictis, loculo altero angustiore, hyalinis, vage minuteque guttullatis, 23-25  $\approx$  7-7,5.

*Hab.* in floribus exsiccatis Hydrangæ hortensis in horto bot. Parmensi (PASSERINI).

29. **Venturia cincinnata** (Fr.) Rostr. F. Groenl. p. 556, *Sphæria* Fr. Syll. II, p. 406. — Asci e basi ampliati, angustati, 85-95  $\approx$  20-25; sporidia ovoideo-oblongata, 1-septata, constricta, 22-24  $\approx$  8-10, primo hyalina dein olivacea. — Nascitur quoque in foliis Oxycocci palustris, Tasermiut Groenlandiæ.

30. **Venturia sabalicola** Ell. et Ev. Proc. Phil. 1890, pag. 233. — Sparsa vel subgregaria; peritheciis globosis 125-135  $\mu$ . diam., pertusis, setulis rectis, obtusis, nigris, 50-80  $\approx$  6-8; ascis oblongo-clavatis, 50-60  $\approx$  7-8, aparaphysatis; sporidiis fusoideo-oblongis, hyalinis 4-nucleatis (demum 1-septatis?) 10-13  $\approx$  2,5-5, stipato-distichis.

*Hab.* in foliis emortuis Sabal Palmetto, Bayon Chene La. Amer. bor. (LANGLOIS).

31. **Venturia microchæta** Pat. in Rev. Myc. 1886, p. 82 (*V. micro-* 2846  
*seta*). — Peritheciis minutis, nigris, globosis vel depressis, glabris, vertice setis acutis, brevibus, 36-45  $\mu$ . longis, nigris coronato; ascis cylindræis, breviter pedicellatis, 75  $\mu$ . longis; sporidiis cylindræis, 1-septatis, hyalinis vel vix virescentibus, 21  $\simeq$  2-3.

*Hab.* in foliis emortuis Caricis, Tibet oriental. (AB. DAVID).

32. **Venturia erysiphoides** E. et E. Journ. Myc. 1887, p. 128. — Pe- 2847  
ritheciis gregariis, nigris, globosis, 100  $\mu$ . diam., late perforatis, setulis rigidis, nigris, continuis, 60-70  $\simeq$  5-6 conspersis, ascis oblongis, sessilibus, aparaphysatis, 40-45  $\simeq$  7-8; sporidiis stipatis, fusoides, curvulis, 5-9-nucleatis, 20  $\simeq$  2,5, hyalinis.

*Hab.* in culmis v. vaginis emortuis Panici Curtisii, Pointe à la Hâche La. Amer. bor. (LANGLOIS). — Affinis *V. graminicolæ*.

33. **Venturia microspora** Speg. F. Fueg. n. 208. — Maculis nullis; 2848  
peritheciis sparsis, v. gregariis, subseriatis globosis, 120-150  $\mu$ . d., in sicco collabascentibus, pilis opacis atris acutis basi non v. vix dilatatis, 20-30  $\simeq$  2-3, undique densiuscule vestitis, tenui-membranaceis; contextu indistincto atro opaco, ostiolo vix papillulato obtuso; ascis subclavulato-fusoides, antice late truncato-rotundatis, non v. vix crassiuscule tunicatis, deorsum breviter attenuato-pedicellatis, 24-25  $\simeq$  2-2,5, octosporis, paraphysatis; sporidiis elliptico-elongatis, non v. leniter inæquilateralibus v. subcurvulis, medio 1-septatis non constrictis, utrinque obtuse rotundatis v. subtruncatis, 5  $\simeq$  1, loculis grosse biguttulatis, hyalinis.

*Hab.* ad folia dejecta v. languida Fæstucæ magellanicæ in Staten island Fuegiæ.

34. **Venturia Haglundi** Starb. Skand. Pyr. p. 9 (*Niesslia*). — Peri- 2849  
theeciis superficialibus vel subgregariis, sæpe 2-3-connatis, 100  $\mu$ . diam., setulis 40  $\simeq$  5, sparsis, firmis, rectis, basi subincrassatis vestitis; ascis aparaphysatis, cylindræis, sursum sensim attenuatis, subtruncatis, sessilibus, 25-30  $\simeq$  2,5-3,5, 8-sporis; sporidiis oblique monostichis, fusoides, continuis vel demum 1-septatis, 10-13  $\simeq$  1,5-2,5.

*Hab.* in foliis subvivis Lycopodii complanati pr. Dufhult in parœcia Simonstorp Ostrogothiæ.

35. **Venturia Turfosorum** Mouton in Bull. Soc. R. Bot. Belg. 1886, 2850  
p. 149. — Peritheciis sparsis, superficialibus, subovatis, 80-100  $\mu$ . diam., membranaceis, contextu fuligineo, ostiolo minuto, obtuso ob-

scuriori, setulis plerumque curvatis, basi incrassatis, continuis, 55-70  $\approx$  3,5, laxe vestitis; ascis obpiriformibus, breve stipitatis, octosporis, 22  $\mu$ . latis; sporidiis ovatis, bilocularibus, ad septum constrictis, hyalinis, 12-14  $\approx$  6-7.

*Hab.* supra Sphagna siccitate emortua Tilff in Belgio.

36. **Venturia fimiseda** Mout. Ascom. Liège. II, pag. 5, tab. I, fig. 14. 2851

— Peritheciis dense sparsis vel gregariis, superficialibus, globulosis, haud collabentibus, 160  $\mu$ . diam., ostiolo punctiformi, contextu membranaceo fusco, setulis plerumque continuis, 4  $\mu$ . cr. vestitis; ascis e basi dilatata oblongis, sessilibus, octosporis, 42  $\approx$  10; sporidiis inordinate distichis, longe ovatis v. cuneatis, chlorino-luteolis, medio septatis lenissimeque constrictis, 4-guttulatis, 12-15  $\approx$  4.

*Hab.* in fimo vetusto Leporum, Forêt Belgii. — *Venturiæ Myrtilli* proxima.

37. **Venturia pezizoidea** Sacc. et Ell. Mich. II, p. 567. — Peritheciis 2852

laxe gregariis hypophyllis, punctiformibus, subsuperficialibus, globulosis, dein collabentibus, setulis cuspidatis, 40-60  $\approx$  5, fuliginis vestitis; peritheci contextu tenuissimo, pallidulo; ascis teretibus, 35  $\approx$  8, octosporis, aparaphysatis; sporidiis (immaturis visis) tereti-  
 usculis, continuis, hyalinis, 8-10  $\approx$  2.

*Hab.* in pag. inf. foliorum languidorum *Andromedæ*? racemosæ, Newfield N. J. Amer. bor. (ELLIS).

38. **Venturia parasitica** Ell. et Ev. Proc. Phil. 1890, p. 233 (*Venturiola*?) 2853

— Peritheciis dense gregariis, globosis, 90-100  $\mu$ . diam., collabescentibus supra spinulis continuis, rigidis, rectis, 30  $\approx$  5, sparse vestitis; ascis clavato-cylindratis, 25  $\approx$  5, aparaphysatis; sporidiis oblique monostichis vel distichis, oblongis, 3-4-nucleatis, 6-8  $\approx$  2, hyalinis.

*Hab.* parasitica in *Hypoxyllo* (perforato?) ad corticem *Magnoliæ* pr. St. Martinsville La. Amer. bor. (LANGLOIS).

### Observatio

Species sequentes, in Sylloge sub aliis generibus militantes, sec. cl. Winter (Confr. Hedwigia 1836, p. 27) ad hoc genus pertinent, nam perithecia ostiolo apice fasciculo setarum brevium prædita sunt sporidiaque uniseptata.

39. **Venturia Geranii** (Fr.) Winter, *Stigmatea Geranii* Sacc. Syll. I, pag. 541.

40. **Venturia epilobiana** (Sacc.) Winter, *Læstadia epilobiana* Sacc. Syll. I, p. 429.

41. **Venturia Systema-solare** (Fuck.) Winter, *Læstadia Systema-solare* Sacc. Syll. I, p. 423.

**ARCANGELIA** Sacc. Bull. Soc. myc, 1890, V, pag. 115, t. XIV, f. 1 (Etym. a cl. botanico italico J. ARCANGELI, in Universitate Pisana Botanices professore). — Perithecia frondibus vivis (Hepaticarum) immersa, subglobosa, membranacea, hyphis prælongis remotis conspersa, nigricantia, ostiolo rotundo vix papillato pertusa. Asci cylindranei, octospori. Sporidia didyma, hyalina. Paraphyses distinctæ, ramulosæ. — A gen. *Lizonia* differt peritheciis immersis, membranaceis, sporidiis achrois; a gen. *Didymella* peritheciis biogenis, longe piligeris; a gen. *Stigmatea* demum peritheciis longe piligeris, paraphysibus copiosis, ramulosis. Gen. *Lizonia*, olim uti paraphysatum descriptum, teste cl. Pirotta in N. G. bot. ital. 1889, p. 317, paraphyses genuinas gerit.

1. **Arcangelia Hepaticarum** Sacc. loc. cit. XIV. — Peritheciis sparsis v. 2-4 approximatis, epiphyllis, immersis dein vix erumpentibus, e globoso obtuse conoideis, 150-200  $\mu$ . diam., superne magis pachydermaticis, nigris, infra mollioribus pallidioribus, hyphis seu pilis longis, ramulosis, septatis fuliginis, remotiusculis, matricem intransibus ubique, præcipue basi, cinctis; ostiolo brevissime obtuse papillato, latiuscule pertuso, margine (sub microscopio) tenuissime denticulato; ascis fasciculatis, cylindraneis, breve stipitatis, apice rotundatis, octosporis, 120  $\approx$  12-15; sporidiis monostichis vel apice subdistichis ovato-oblongis, constricto 1-septatis, hyalinis, 20-22  $\approx$  8-10, loculo superiore brevioribus, rotundioribus; paraphysibus filiformibus simplicibus furcatisve.

*Hab.* in frondibus omnino vivis *Ricciæ tumidæ* ad Poggio S. Romolo prope Florentiam. — Legit cl. E. LEVIER et communicavit cl. U. Martelli.

**ERIOSPHÆRIA** Sacc. Syll. I, p. 397.

1. **Eriosphæria vermicularioides** Sacc. et Roum. in Rev. Myc. 1883, 2855 tab. 39, fig. 3. — Peritheciis dense gregariis superficialibus, globoso-papillatis, nigris, minutis,  $\frac{1}{6}$ - $\frac{1}{5}$  mm. diam., subcarbonaceis, setulis filiformibus, rigidis, septatis, fuliginis, basi cinctis parceque supra conspersis; ascis cylindraneis, breve stipitatis, 70-80  $\approx$  5, octosporis; sporidiis oblique monostichis, ellipsoideis, 1-septatis constrictisque, utrinque rotundatis, 7-8  $\approx$  4, hyalinis.

*Hab.* in lignis putrescentibus in Gallia. — Ab *E. Vermicula-*



*ria* differt ascis cylindræis, longioribus et angustioribus; sporidiis monostichis; peritheciis supra sæpius glabratis.

2. **Eriosphæria corylina** Mout. Ascon. Lièg. II, p. 6, t. I, f. 10. — 2856

Peritheciis globosis, ligno duro insidentibus, media magnitudine, pilis mollibus pachydermatis subhyalinis, continuis parce vestitis, contextu coriaceo fuscescente; ascis subcylindræis, in stipitem attenuatis, 4-sporis, 120-130  $\approx$  10-13, p. sp. 90.  $\mu$ . long.; paraphysibus filiformibus; sporidiis oblique monostichis, oblongo-cylindræis, obtusis rectis, medio septatis, vix constrictis, plasmate, granuloso, dilute olivaceo-fuscescente, 28-32  $\approx$  8,5.

*Hab.* ad caudices siccos Coryli Avellanæ, Beaufays Belgii.

3. **Eriosphæria? vulgaris** Speg. F. Fueg. n. 211. — Peritheciis spar- 2857

sis, superficialibus, subglobosis 350-400  $\mu$ . d. atris, canescenti-villosis, pilis rectis acutis, 1-cellularibus basi fuscescentibus apice hyalinis tenuissime canaliculatis 500-900  $\approx$  20, rigidulis dense vestitis, coriaceis, contextu opaco atro indistincto, ostiolo minute umbonato; ascis....?; sporidiis.....?, non visis.

*Hab.* vulgatissima ad ramos dejectos decorticatos putrescentes Fagi betuloidis per totam Fuegiam (semper sterilis).

4. **Eriosphæria australis** Speg. F. Fueg. n. 210. — Peritheciis sparsis 2858

globosis 300-450  $\mu$ . d. peridermio sublevato velatis, eoque sæpius sedente liberis, superficialibus, atris, molliter rufescenti-villosis, pilis cylindræis longiusculis obtusis, basi non incrassatis 100-150  $\approx$  5 rectis v. flexuosulis, pluriseptatis, pallide rufescentibus vestitis, coriaceo-membranaceis, contextu parenchymatico, fuligineo; ostiolo impresso pertuso; ascis fusoido-subclavatis 120-130  $\approx$  12-13, antice truncato-rotundatis, deorsum breviter crasseque attenuato-pedicellatis, octosporis, subdiffluentibus, paraphysibus parvis mucosis; sporidiis recte distichis, elliptico-elongatis 24-28  $\approx$  6-7, leniter inæquilateralibus v. subcurvulis, utrinque obtusiusculis, primo continuis hyalinis, dein grosse 2-guttulatis, postremo diblastis, dilute fuscescentibus.

*Hab.* ad ramos emortuos Berberidis ilicifoliæ prope Port Cook in Staten island Fuegiæ.

5. **Eriosphæria inæqualis** Grove in Add. Syll. p. 103. — Peritheciis ovoi- 2859

deis, circiter 150  $\mu$ . diam., confertis, superficialibus, parte inferiori pilis brevibus, rigidis, radiantibus obsitis, superiori nudis prominulis, rugosiusculis, nitidis; ostiolo conico, pertuso; ascis stipatis, cylindricis, 50  $\mu$ . long., subinde basi attenuatis et deinde 70-80  $\approx$  3-4; sporidiis monostichis, oblongis, 7-8  $\approx$  2 $\frac{1}{2}$ -3, inæqualibus, 2-3-

guttulatis, hyalinis, maturis tenuiter 1-septatis; loculo superiori ovoideo 1-guttulato, inferiori angustiori et longiori, attenuato, conico, 2-guttulato, loculis demum facile secedentibus.

*Hab.* in ligno putri, una cum *Gonytricho cæsius*, Barnt Green prope Birmingham, Brit. — *Trichosphæriæ pilosæ* manifeste affinis et ab icone Curreyana (Linn. Trans. XXII, t. 57, f. 21) vix nisi sporidiis inæqualibus differens. Cum *Trichosphæriæ pilosæ* var. *nitidula* Sacc. comparanda, quæ probabiliter status junior videretur.

6. **Eriosphæria pulchriseta** (Peck.) Sacc. *Acanthostigma pulchrisetum* (Peck) Sacc. Syll. II, n. 3605. — Sporidia brevia 6,2-7,5  $\mu$ . longa et medio partita, ergo potius *Eriosphæria* quam *Acanthostigma*.
7. **Eriosphæria calospora** Speg. Fungi Guar. Pug. I, n. 211. — Peritheciis dense sparsis v. laxè gregariis in matrice immutata v. vix dealbata superficialibus, udis, globosis, 200-250  $\mu$ . diam., siccis cupulato-collapsis, setulis pluriseptatis, fuliginis, breviusculis, 50-100  $\approx$  5, subcylindræis, apice acutatis v. subclavulato-hyalinis, basi non incrassatis laxissime vestitis, membranaceo-coriacellis, atris, levibus, contextu dense subimperspicueque parenchymatico, olivaceo, subopaco, ostiolo minute umbonatum ornatis; ascis ellipticis v. elliptico-subfusoides, antice truncato-rotundatis, postice brevissime crasseque attenuato-stipitatis, 45-55  $\approx$  13-20, apophysatis, 8-sporis; sporidiis hyalinis, recte v. oblique distichis, elliptico-elongatis, utrinque acutiuscule rotundatis, non v. vix inæquilateralibus, rarius subsigmoideis, medio 1-septatis, non v. leniter constrictis, loculis subæqualibus non v. 2-guttulatis, episporio primo levi, dein transverse rugoso, rugis minute tuberculosus.

*Hab.* ad culmos emortuos *Bambusaceæ* scandentis cujusdam in silva subvirginea, Caa-guazû Brasiliæ.

**LENTOMITA** Niessl — Sacc. Syll. I, p. 585.

1. **Lentomita longicollis** Karst. in Hedw. 1884, n. 6, p. 85 et Rev. 2861  
atque Synop. Ascom. fenn. p. 58. — Peritheciis gregariis, innatis dein semierumpentibus, rarissime liberis, sphæroideis, nudis, glabris, fragilibus, atris, rostro cylindræo, recto, vulgo perithecium æquante, 4  $\mu$ . lat.; sporidiis octonis, monostichis, oblongato-ellipsoideis, ultra medium uniseptatis, junioribus 1-2-guttatis, ad septum non constrictis, chlorino-hyalinis, 11-16  $\approx$  5-6.

*Hab.* in ligno vetusto *Betulæ* in Mustiala Fenniæ. — Peritheciis majoribus, basi haud applanatis, rostro longiore; sporidiis ma-

goribus, ultra medium spurie uniseptatis etc., ab affini *Lent. brevicolle* differt.

2. **Lentomita acuum** Mout. Ascom. Lièg. II, pag. 5. — Peritheciis superficialibus, minimis, 100  $\mu$ . d., contextu membranaceo, fuligineo, parenchymatico, in collum capillare, nigrum, prosenchymaticum, 400-700  $\mu$ . long., 25  $\mu$ . cr., apice obtusum subhyalinum productis; ascis aparaphysatis (?), clavatis, fugacibus, octosporis, apice membrana non incrassata, 60  $\approx$  10; sporidiis biseriatis, elongato-oblongis, hyalinis, 25  $\approx$  6, tenuiter 1-septatis, 4-guttatis, non constrictis.

*Hab.* in foliis putrescentibus Pini silvestris, Tilff Belgii.

**GIBBERA** Fr. — Sacc. Syll. I, p. 599.

1. **Gibbera guaranitica** Speg. Fungi Guar. Pug. I, n. 222. — Peritheciis superficialibus, dense lateque cæspitoso-stipatis, plagulas 1-10 cm. diam., granulosis, sordide rubiginosis efficientibus, obovatis, nigro-fuscis, levibus, parvulis, 600  $\approx$  300-350, primo ferrugineo-pruinulosis, dein glabratis, ad basim tantum subtomentosulis, hyphis repentibus, parce ramosis, septulatis, gracilibus 3-4  $\mu$ . crass., fuligineis donatis, ostiolo minuto, umbilicato, radiato-ruguloso, coriacellis; contextu parenchymatico-indistincto, fuligineo-olivaceo, subopaco; ascis cylindraceo-clavatis, apice rotundatis vel acutatis, basi longiuscule attenuato-pedicellatis p. sp. 65-70  $\approx$  10-12, ped. 25-30  $\approx$  3; paraphysibus filiformibus, longioribus, simplicibus v. parce ramulosis, densis obvallatis, 8-sporis; sporidiis oblique monostichis v. recte distichis, ellipticis, sæpius inæquilateralibus, medio 1-septatis, constrictulis, utrinque acutato-rotundatis, 15-18  $\approx$  6-7, loculis crasse 1-guttulatis, perdilute olivascentibus.

*Hab.* ad truncos dejectos putrescentes in silvis prope Guarapì Brasiliæ.

2. **Gibbera pezizoidea** Pat. Champ. N. Caled. p. 9. — Peritheciis aggregatis tuberculum subgloboso-oblongum, 5-15 mm. long. formantibus, stromate rufo-nigro insertis, distinctis, globulosis, vertice depressis, infra villosis, supra glabrescentibus; ascis cylindraceis, 10-10, octosporis, monostichis; paraphysibus coalescentibus, ramosis; sporidiis oblongo-ellipsoideis, pallide olivaceis, 1-septatis constrictisque, subinde 2-guttulatis, 16-17  $\approx$  6.

*Hab.* in cortice arborum, Bonrail Novo-Caledoniæ.—Stroma pilis brunneis, simplicibus ramosisque tomentosum.

**CACOSPHERIA** Speg. F. Fueg. n. 218 (1887) (Etym. *cacos* malus et

*Sphæria*). — *Perithecia Calosphæriæ*; asci clavati octospori, paraphysati; sporidia botuliformia, 1-septata, hyalina.

1. **Cacosphæria antarctica** Speg. l. c. — Acervulis sparsis v. laxe gregariis, discoideis 1-1,5 mm. diam., pustuliformibus, in cortice nidulantibus, peridermio parum elevato tectis ac eum disculo perforantibus; peritheciis paucis 4-9 in quoque acervulo valsiformiter laxe aggregatis, nudis, atris, nitidulis, glabris, parvulis, 280-320  $\mu$ . d. coriacellis, contextu opaco indistincto, ostiolis breviusculis, obtusis, crassiusculis, conniventibus, disculum non v. vix exsertum sæpe griseo-pulverulentum efformantibus; ascis clavatis, antice obtusissime rotundatis crassiuscule tunicatis, deorsum in pedicellum longiusculum attenuatis, p. sp. 22-25  $\simeq$  4-5, ped. 18-25  $\simeq$  2, octosporis; paraphysibus duplo longioribus, paucis, crassiusculis; sporidiis di-tristichis, botuliformibus utrinque obtuse rotundatis 9-11  $\simeq$  1,5, primo diblastis, dein distincte medio 1-septatis, non constrictis, hyalinis.

*Hab.* ad ramos dejectos emortuos Ribis magellanici prope Ushuvaia, Fuegia.

**ENDOTHIA** Fr. — Syll. I, p. 601.

1. **Endothia Parryi** (Farlow) Cooke in Grevillea XIII, p. 102. *Dothidea Parryi* Farlow in litteris. — Stromatibus pulvinate erumpentibus; peritheciis numerosis, concentrice aggregatis, fuscis, epidermide cinnabarina cinctis; ascis lineari-clavatis, 76-110  $\simeq$  16-20, aparaphysatis; sporidiis octonis, irregulariter subdistichis, hyalinis, 20-26  $\simeq$  5-7, uniseptatis, ellipsoideis, subacutis, parce constrictis.

*Hab.* in Agave Shawii, S. W. States Americæ bor.

**MELANCONIS** Tul. — Sacc. Syll. I, p. 602.

1. **Melanconis Aceris** Phill. et Plowr. in Grevillea XIII, p. 77. — Stromate valsoideo, atro, suborbiculari vel conico-truncato, 2-5 mm. diam., corti-vel lignicolo, linea atra circumscripto; peritheciis  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., 5-15 coacervatis, ostiolis minutis; ascis clavatis 65-70  $\simeq$  10; sporidiis hyalinis, uniseptatis, nucleatis, ad septum leniter constrictis, ellipsoideis, 12-15  $\simeq$  4-5, muticis.

*Hab.* in Acere in Britannia (W. B. GROVE).

2. **Melanconis Everhartii** Ell. in Bull. Torr. bot. Club. 1883, p. 117. — Peritheciis globosis, 0,25 mm. diam., in stromata compactis, 4-18; ascis clavato-cylindræis, 114-120  $\simeq$  19; paraphysibus crassiusculis, remote septatis, granulosis; sporidiis distichis, oblongo-ellipsoideis, uniseptatis, subhyalinis, 34-38  $\simeq$  11.

*Hab.* in ramulis delapsis *Aceris*, West Chester in Amer. bor.

3. **Melanconis dasycarpa** Ellis et Kellerm. in Journ. of Myc. 1886, 2869

p. 3. — Stromate corticali, 1 mm. diam., vel paullo latiore, linea nigra circumscripto; peritheciis 3-8 cortice interiore immersis,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. diam., ostiolis asperulis, cylindraceo-conoideis, epidermidem stellato-ruptam sæpe perforantibus, fasciculatis et in discum protrusis; ascis oblongo-cylindraceis, subsessilibus, 100-115  $\times$  18-20; paraphysibus imperfecte evolutis; sporidiis distichis, oblongo-cylindraceis, leniter curvulis, uniseptatis, subhyalinis, septo non vel vix constrictis, 25-30  $\times$  8-10, appendicula crassiuscula, leniter obliqua, hyalina, 16-20  $\times$  3, utrinque præditis.

*Hab.* in ramulis putridis *Aceris dasycarpi* Manhattan Kansas Amer. bor. — Affinis *M. Alni*.

4. **Melanconis antarctica** Speg. F. Pat. n. 128 — Stromate valso, elli- 2870

ptico, 5-6 mm. long., 2-3 mm. lat., 0,3-0,5 mm. crass., disco excepto, peridermio tecto, e substantia corticis fere immutata efformato, in parte centrali albescenti-flavescente, vix protuberante; peritheciis in singulo stromate 15-25, eoque immersis, circinantibus, sphæroidis 250-300  $\mu$ . diam., glabris levibus, ostiolis in disco corticem perforante sed vix prominulo exsertis, conoideis, obtusiusculis, rigidulis, nigris, constipatis, subconfluentibus; ascis cylindraceo-subclavatis, superne rotundato-subtruncatis, minute bifoveolatis, in pedicellum mox fluxilem productis, p. sp. 80-85  $\times$  10-11, octosporis, aparaphysatis?; sporidiis hyalinis v. fumosis distichis, elongato-ellipticis vel subfusoideo-ellipticis 25-26  $\times$  5, medio 1-septatis leniterque constrictis, non v. vix subinæquilateralibus utrinque obtusiuscule acutatis et caudula gracili subflexuosa, 20-25  $\times$  1-1,5 hyalina auctis.

*Hab.* ad ramos emortuos *Fagi betuloidis* in silvis prope Punta Arenas Patagoniæ. — Species *M. Alni* Tul. valde affinis sed certe diversa!

5. **Melanconis salicina** Ell. et Ev. Proc. Phil. Academ. 1890, p. 236. 2871

— Stromate plano, tenui, orbiculari, 2 mm. d., e corticis substantia leniter mutata et vix elevata formato, linea nigra parum profunda circumscripto; peritheciis 3-6, rarius singulo, in quoque stromate,  $\frac{3}{4}$  mm. d., globosis membranaceis in collum breve ostiolo latiusculo, concavo epidermidem perforante contractis; ascis late fusoideis 90-110  $\times$  12-16 p. sp. copiose paraphysatis; sporidiis stipato-distichis oblongo-fusoideis, 1-septatis leniter constrictis curvulis, 40-60  $\times$  8-10, flavido-hyalinis, utrinque breve obtuseque apiculatis.

*Hab.* in ramis emortuis Salicis, London Canada Amer. bor.-  
Spermogonia adsunt; perithecia ligno basi insculpta.

**HERCOSPORA** Tul. — Syll. I, p. 605.

1. **Hercospora tiliacea** (Ell.) Sacc. *Diatrype tiliacea* Ellis Amer. Nat. 2872  
1883, Febr. p. 195. — Peritheciis subelongatis,  $\frac{1}{2}$ - $\frac{1}{3}$  mm. diam.,  
cortice parum mutato immersis, 5-10 aggregatis, ostiolis fascicu-  
latis rugulosis, conico-cylindricis, erumpentibus, in discum vix co-  
hærentibus; ascis late oblongis, 80-90  $\approx$  18-22, paraphysatis (?),  
octosporis; sporidiis 2-3-stichis, oblongo-cylindræis, leniter cur-  
vis, obtusis, constricto-1-septatis, 2-nucleatis, 22-30  $\approx$  7-8, hyalinis.

*Hab.* in cortice Tiliæ americanæ, Ames Jowa Amer. bor.  
(J. C. ARTHUR). — « An mera forma *H. Tiliæ?* » — Ostiola  $\frac{1}{2}$ -1  
mm. longa, denique apice irregulariter dehiscentia; acervuli peri-  
theciorum lineola stromatica superficiali circumscripti.

**DIAPORTHE** Nits. — Sacc. Syll. I, p. 607.

I. *Chorostate* Nits.

1. **D. Chorostate Bloxami** (Cooke) Berl. et Vogl. Add. Syll. p. 105. 2873  
*Valsa Bloxami* Cooke in Grevillea XIV, p. 47. — Pustulis con-  
vexis, emergentibus; peritheciis 12-20 congestis, piriformibus, in  
collum elongatum productis, pulvere aureo-fulvo obductis; disco  
orbiculari, fusco; ascis cylindricis, octosporis; sporidiis uniseriali-  
bus, ellipticis vel sublanceolatis, medio uniseptatis, leniter constri-  
ctis, hyalinis, 22  $\approx$  6.

*Hab.* in ramis Fagi? Twycross Britannicæ (BLOXAM).

2. **D. Chorostate punctata** (Cooke) Berl. et Volg. Add. Syll. p. 108 2874  
*Valsa punctata* Cooke in Grevillea XIV, p. 47. — Pustulis con-  
vexis, emergentibus, ostiolis brevibus, in discum orbicularem con-  
gestis; ascis clavatis, breviter stipitatis, octosporis; sporidiis bise-  
rialibus, ellipticis, rotundatis, medio uniseptatis, nec constrictis,  
hyalinis, 20  $\approx$  7.

*Hab.* in ramis Tiliæ et Salicis in Sydenham Britannicæ.

3. **D. Chorostate farinosa** Peck 40 Rep. p. 69. — Stromate sub- 2875  
pulverulento sordide alutaceo, e cortice parum mutato formato, in  
discum parum exsertum minutum erumpente; peritheciis valsoideo-  
circinantibus, 4-10 in quoque circulo, ostiolis atris discum alutaceum  
v. demum brunneum punctatum reddentibus; ascis subcylindricis, 60-  
70  $\approx$  8-10; sporidiis confertis v. biserialibus, oblongis v. subfusifor-  
mibus, 1-septatis, vulgo 4-nucleatis, 15-20  $\approx$  4-5.

*Hab.* in ramis emortuis Tiliæ americanæ Argusville Americæ borealis.

4. **D. Chorostate concrescens** (Schw.) Cooke in Grevillæ XIII, pag. 38. *Sphæria concrescens* Schw. Syn. Amer. bor. 1301, et Sacc. Syll. II, p. 378. — Sporidia fusiformia, quadrinucleata, demum uniseptata, 12  $\mu$ . longa.
5. **D. Chorostate fuscidula** (Cooke) Berl. et Vogl. Add. Syll. p. 106 2876  
*Valsa fuscidula* Cooke in Grevillea XIV, pag. 48. — Pustulata, fusca; pustulis erumpentibus, convexis, subpulveraceis; peritheciis paucis, immersis, collis elongatis, convergentibus, demum punctato-emergentibus; ascis clavatis, breviter stipitatis, octosporis; sporidiis inordinatis, arcte fusoides, binucleatis, demum uniseptatis, hyalinis, 18-20  $\approx$  3,5.

*Hab.* in ramulis Quercus verisimiliter in Britannia.

6. **D. Chorostate crinigera** Ell. et Ev. Proc. Phil. 1890, p. 234. — 87 7  
Stromate corticali, corticem interiorem late infuscante; peritheciis cortice interiore immersis, in pustulas 2 mm. diam., subcircinatis, 6-20 congregatis, zona nulla limitatis ovato-globosis,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. d., ostiolis brevibus convergentibus, apice rotundatis, levibus v. quadrisulcatis, fasciculatim erumpentibus, subinde longioribus cylindræis 1-2 mm. long.; ascis 45  $\approx$  7-8, paraphysatis (?); sporidiis biseriatis, oblongo-fusoides, 4-nucleatis, medio leniter constrictis, utrinque subobtusis, 10-13  $\approx$  3-4.

*Hab.* in ramis emortuis Quercus, London, Canada (DEARNESS) Delaware (COMMONS). Affinis D. Woolworthii.

7. **D. Chorostate leiphæma** (Fr.) Sacc. Syll. I, p. 615. — Var. **major** Brun. in Rev. Myc. 1886, p. 205. — Ascis 110-120  $\approx$  10-12; sporidiis 20-22  $\approx$  4-5. In lignis vetustis Quercus pr. Saintes Galliæ. *Sphæria Micheliana* Fr. — Syll. II, n. 4217 — secund. Cooke et ad exempl. Berkel. est eadem ac *D. leiphæma*.
8. **D. Chorostate Briardiana** Sacc. Miscell. Myc. 1, pag. 3. — Peri- 2878  
theeciis subcutaneo-prominulis, in acervulos valseos, exiguos, gregarios dense congestis, globulosis,  $\frac{1}{3}$  mm. diam., ostiolis breviusculis, vix convergentibus, peridermium vix perforantibus; ascis oblongo-fusoides, subinæqualibus, 44 52  $\approx$  6-8, octosporis; sporidiis monostichis vel distichis, oblongo-ellipsoideis, utrinque obtusiusculis, 12-14  $\approx$  4, medio leniter constrictis tenuiterque 1-septatis, 4-guttatis, hyalinis.

*Hab.* in ramis emortuis salicinis pr. Troyes Galliæ (BRIARD).

9. **D. Chorostate nigro-cincta** Pass. in Brun. Nouv. Fragm. p. 27. 2879

— *Stromate valseo*, zona nigra circumscripto; peritheciis subcircinantibus, parcis; ostiolis fasciculatis per peridermium fissum erumpentibus; ascis cylindræis, aparaphysatis (?), 8-sporis,  $110 \approx 10$ ; sporidiis monostichis, ellipsoideis, medio 1-septatis, non constrictis, grosse 2-guttatis, hyalinis,  $12-20 \approx 7.5$ .

*Hab.* in ramulis emortuis *Castanæ vescæ*, Saintes Galliæ.

10. **D. Chorostate marginalis** Peck 39 Rep. p. 52, t. II, f. 1-5. — 2880

Pustulis numerosis, epidermide elevata tectis; peritheciis 8-15 in pustulas valsoideo-aggregatis, cortice interiore nidulantibus zona atra nulla cinctis, ostiolis circa disculum albo-pulveream breve erumpentibus, atris; ascis subcylindræis,  $65-75 \approx 10-13$ ; sporidiis confertis v. distichis, 1-septatis, utrinque obscure apiculatis,  $20-23 \approx 5-6$ .

*Hab.* in ramis emortuis *Alni viridis*, Elizabethtown Am. bor.

11. **D. Chorostate nivosa** Ell. et Ev. Proc. Phil. 1890, p. 222. — 2881

Peritheciis sæpius 8-12 subcircinatis,  $\frac{3}{4}$  mm. diam., cortice immutato sed pustulatim elevato immersis, linea nulla circumscriptis; ostiolis brevibus apice subhemispherico-papillatis circa discum niveum 1 mm. diam., erumpentibus; ascis  $60 \approx 12$  p. sporif.; sporidiis subseriatis, oblongis, 4-nucleatis, 1-septatis, constrictis,  $12-16 \approx 3-4$ , rectis curvulisve.

*Hab.* in ramis *Alni* emortuis, Isle Royale Lake Sup. Amer. bor. (HOLWAY) « An forma *Diap. marginalis* Peck? »

12. **D. Chorostate populea** Sacc. in Mout. Ascom. Lièg. II, pag. 2882

6. — Peritheciis hinc inde dense acervulatis, globosis, atris, crasse coriaceis, majusculis,  $600 \mu$ . d., ostiolis subconvergentibus, apice coalitis, vulgo non exsertis, ascis oblongis, sursum rotundato-truncatis, bifoveolatis, basi attenuato-stipitatis, octosporis,  $80 \approx 17-18$ ; sporidiis distichis, ellipsoideis, 1-septatis, non v. vix constrictis, eguttulatis, hyalinis,  $15-18 \approx 6$ .

*Hab.* in ramulis delapsis *Populi nigræ*, Angleur Beaufays Belgii. *D. salicellæ* vicina.

13. **D. Chorostate pulchella** Sacc. et Br. Misc. Myc. I, pag. 3. — 2883

Pustulis gregariis, subcutaneo-erumpentibus,  $1\frac{1}{3}-1\frac{1}{2}$  mm. diam.; peritheciis paucis, circinantibus,  $\frac{1}{3}-\frac{1}{2}$  mm. diam., globosis, ostiolis convergentibus, brevibus, non exsertis; ascis fusoides, subsessilibus, aparaphysatis,  $60-76 \approx 12-16$ , lumine apice minute bifoveolato, octosporis; sporidiis subdistichis, oblongo-fusoides, constricto-1-septatis,  $16-22 \approx 7-9$ , utrinque acutiusculis, rectis curvulisve, hyalinis.

*Hab.* in ramis corticatis *Populi pyramidalis*, Troyes Galliæ (BRIARD). — *Melanconi dolosæ* affinis videtur.



14. **D. Chorostate Trecassium** Sacc. et Briard Misc. Myc. I, p. 4. 2884

— Peritheciis corticulis, in acervulos valseos, conico-discoideos, regulares arcte aggregatis, globosis, atris,  $\frac{1}{3}$  mm. diam., stromate albido, ligneo exceptis circuloque nigro eximie circumscriptis, ostioli in conum atrum, obtusiusculum, parum exstans coalescentibus; ascis cylindraceutis, breve stipitatis, apice lumine coarctato, rotundatis, p. sporif. 95-110  $\approx$  9-11, octosporis; sporidiis monostichis, ellipticis utrinque subrotundatis, constricto 1-septatis, 18-22  $\approx$  7-9, biguttatis granulosisve, hyalinis.

*Hab.* in ramis corticatis Platani orientalis prope Troyes (Trecasses) Galliae (BRIARD). — Ob sporidia elliptica et ascos teretes ad *D. fibrosam* nutat.

15. **D. Chorostate Rehmiana** Starb. Bidr. Sver. Ascom. pag. 5, tab. 2885

I, fig. 2. — Stromatibus sparsim gregariis, valseis, totos ramulos ambientibus, e basi lata ligno paullum innata zonaque nigra circumscripta disciformi-conoideis pustulatim primo corticem, deinde irregulariter fissam, elevantibus, ad basim 3-5 mm. diam.; peritheciis in singulo stromate 10-20-25, globosis vel mutata pressione angularibus, majusculis, ostioli longioribus, cylindricis epidermidem, cujus laciniæ acervulis adnatæ, disciformiter erumpentibus; ascis tereti-clavatis, sessilibus, 60-70  $\approx$  7-9, octosporis; sporidiis ellipsoideis, e fusoido ellipsoideis, 1-septatis, vix constrictis, subdistichis, 15-20  $\approx$  3,5-5,5, loculo inf. angustiore.

*Hab.* in ramulis Ulmi montanæ ad Köping Oelandiæ.—Subaffinis *D. Saccardianæ*.

16. **D. Chorostate leucopis** (Fr.) Sacc. *Valsa leucopis* (Fr.) Quélet. Jura 2886

506, t. IV, f. 9, *Sphæria leucopis* Fr. S. M. II, 402. — Pustulata; peritheciis ovatis, erectis (inclinatis sec. Quélet.), subquinis, intus albissimis, ostioli conjunctis in discum minutum, globulo centrali albo; sporidiis (teste Quélet.) lanceolatis, 4-guttatis, 20  $\mu$ . longis, utrinque aristatis.

*Hab.* in ramis Coryli (KUNZE), Ulmi et Coryli (QUÉLET), in Germania et Gallia. — Perithecia conferta, subcircinata, pauca, majuscula, tuberculo minuto a cortice interiori formato obvallata, dissecta cava albidissima; colla brevissima, apicibus in discum minutum inæqualem nigrum, globulum centram minutum expellentibus.

17. **D. Chorostate Comptoniæ** Ell. et Ev. Proc. Phill. 1890, p. 234. 2887

— Peritheciis subcircinatis, pustulas minutas dein rimosas formantibus, cortice interiori immersis,  $\frac{1}{5}$  mm. diam., 10-20 in quoque

acervulo, globosis, ostioliis breve cylindræis, obtusis, perforatis, vix emergentibus; nucleo albido, dein nigricante; ascis oblongis, 35-40  $\approx$  7; sporidiis biseriatis, oblongis, subinæquilateralibus, 1-septatis leniterque constrictis, 10-12  $\approx$  3-3,5, flavido-hyalinis.

*Hab.* in ramis *Comptoniæ asplenifoliæ*, Newfield N. J. Amer. bor. — Spermogonia adsunt, multilocularia, griseo-atra, sporulis allantoideis minutis referta.

18. **D. Chorostate tecta** (Cooke) Sacc., *Valsa tecta* Cooke Grev. XI, 2888 p. 109. — Tecta, inconspicua; peritheciis circinatis, paucis, in cortice nidulantibus; ostioliis minimis, brevibus; ascis clavatis; sporidiis inordinatis, sublanceolatis, quadrinucleatis, demum uniseptatis, hyalinis, 18  $\approx$  5.

*Hab.* in cortice *Myricæ*, Darien Georgia Amer. bor. (RAVENEL).

19. **D. Chorostate carpinigera** (B. et C.) Sacc., *Diatrype carpinigera* 2889 B. et C. North Amer. Fungi n. 854. — Pustulis parvis, nigris; peritheciis abditis; sporidiis oblongis, uniseptatis, 14-15  $\mu$ . longis.

*Hab.* in ramis *Carpini*, Pennsylvania Amer. bor. (MICHENER).

20. **D. Chorostate Ellisii** Rehm in litt. Ellis et Ev. in Torr. of Bot. 2890 Club. 1883, p. 89. — Stromate corticali, non linea nigra circumscripto; peritheciis numerosis, 15-20 in quoque stromate, 0,5 mm. diam. stipatis, subcircinatis, corticem in pustulas parvas elevantibus, disco convexo, brunneo, margine ostioliis obtusis perforato, centrum pustularum occupante; ascis subclavatis, 57  $\approx$  8; sporidiis distichis v. stipatis, acute ellipsoideis, 4-nucleatis, subinde medio leniter constrictis, 11-15  $\approx$  3,5-5,5.

*Hab.* in ramis *Carpini americanæ*. — Adest simul *Cytospora* sporulis oblongis, hyalinis, 4-nucleatis, 8-11  $\approx$  2,5.

21. **D. Chorostate neglecta** (Duby) Berl. et Vogl. Add. Syll. p. 108, *Valsa* 2891 Duby in Herb. Currey, Cooke in Grevillea XIV, p. 47. — Stromate epidermide tecto, nigro nigrescenteve, ovato aut globoso, in ramis junioribus nullo; peritheciis 6, compresso-ovatis, verticalibus, dense congestis, basi applanatis; ostioliis exsertis, fragilibus, aterrimis, cylindricis, plus minus elongatis, truncato-papillatis, interdum inflexis, sæpe lateralibus; ascis cylindricis, angustis; sporidiis ovoideis, hyalinis, uniseriatis, nucleolatis, rarissime uniseptatis.

*Hab.* ad caules siccos *Genistæ tinctoriæ* in Britannia.

22. **D. Chorostate sparsa** Niessl Contr. IV, Fl. Myc. Lus. p. 17. — 2892 Stromate late effuso, ambiente, toto immerso, diatrypeo, corticis interioris superficiem nigrificante, ligni substantiam non mutante, sed linea nigra limitato; peritheciis minutis, sparsis, in cortice in-

teriori, depresso globosis, ostiolo crasso, brevi, vix erumpente; ascis lanceolatis, sessilibus, 8-sporis, 52-60  $\approx$  8-10; sporidiis laxè distichis, oblongis, obtusiusculis, rectis, medio septatis, hyalinis, 10-12  $\approx$  3-4.

*Hab.* ad *Glycines violaceæ* ramulos aridos, Coimbra Lusitaniæ (MOLLER). — Adsunt spermogonia sparsa, sub peridermio immutato in corticis superficie nidulantia, minuta, ellipsoideo-globosa, ostiolo papilliformi, sporulis oblongis, plerumque rectis, 2-4-guttulatis, hyalinis, 12-15  $\approx$  4-5.

23. **D. Chorostate microcarpa** Rehm in Voss Myc. Carn. III, p. 173. 2893

— Stromate ambiente, corticem interiorem nigricante; peritheciis in acervulos valseos in cortice interiore nidulantes, circ. 8 monostiche congregatis, globosis, nigris, 0,3 mm. diam., ostiolis brevibus, in disco rotundo, plano, pallide subconice erumpente punctiformiter emergentibus; ascis fusoides, apice rotundatis, 50  $\approx$  8, octosporis; sporidiis fusoides, rectis, medio haud constrictis, 4-guttulatis, utroque apice brevissime filiformiter appendiculatis, hyalinis, 15  $\approx$  4.

*Hab.* ad ramos emortuos *Cytisi nigricantis* pr. Zirklach Carniolæ.

24. **D. Chorostate Hippophaës** Bomm. Rouss. Sacc. sp. nov. — Acer- 2894

vulis compactis, subvalseis, sparsis; peritheciis globulosis, 4-10 aggregatis, rarius solitariis v. geminatis, corticis, linea nigra circumscriptis et epidermide rupta cinctis, ostiolis longis, cylindraceis, emergentibus, rugulosis, sæpe apice curvis, divergentibus; ascis cylindraceis vel subfusoides, 48-64  $\approx$  9, octosporis; sporidiis biseriatis, cylindraceis v. fusoides, obtusis, brevissime mucronatis, 1-septatis, leviter constrictis, 12-16  $\approx$  4-5,5, 4-guttatis, hyalinis, plerumque rectis.

*Hab.* in ramis emortuis *Hippophaës rhamnoidis*, Knocke Belgii. — Adest simul *Phoma consocia* B. R. S. (probabile spermogonium): peritheciis tectis, minutis; sporulis ellipsoideis v. ovato-acuminatis, 2-guttatis, hyalinis, 6-8  $\approx$  2-3, basidiis hamatis.

25. **D. Chorostate magnispora** (E. et E.) Sacc. *Valsa magnispora* Ell. 2895

et Ev. Journ. Myc. 1887, p. 42. — Peritheciis cortice interiore immersis, liguum non penetrantibus nec linea atrâ circumscriptis, 6-10 acervulatis, globoso-ovatis, circ.  $\frac{1}{4}$  mm. diam., supra in colla breviter fasciculatim erumpentia et parum emergentia contractis, ostiolis hemisphæricis, nitidis, nigris, levibus, pertusis et subumbilicatis; ascis sessilibus, tereti-oblongis, 100-120  $\approx$  18-22; sporidiis

biseriatis, oblongo-fusoideis, hyalinis, 1-septatis, leniter constrictis, 25-35 = 9-11.

*Hab.* in ramis emortuis *Aceris*, Plainfield N. J. Amer. bor. (MESCHUTT). — A *D. Aceris* ascis sporidiisque multo majoribus differt.

26. **D. Chorostate Berlesiana** Sacc. et Roum. in Rev. Myc. 1883, 2896  
p. 234, t. 39, fig. 4. — Pustulis gregariis, discoideis, subcutaneis, mediocribus, linea stromatica nulla v. obsoleta; peritheciis circinantibus, minutis, globosis,  $\frac{1}{4}$  mm. diam.; ostiolis in disculum erumpentem, atrum conjunctis, obtusiusculis vix emergentibus; ascis fusoideo-clavatis, 50 = 8, aparaphysatis, octosporis; sporidiis distichis cylindræis, utrinque obtusiusculis, 13-17 = 3,3-3,5, 1-septatis, non vel vix constrictis, muticis, 4-guttatis, hyalinis.

*Hab.* in ramis corticatis *Rhamni Frangulæ* in Arduennis (LIBERT). — A *D. syngenesia* sporidiis muticis, stromatibus haud concentricè striatis etc. differt.

27. **D. Chorostate cercophora** (Ellis) Sacc. *Valsa cercophora* Ellis 2897  
Torr. Bot. Cl. 1882, p. 99. — Peritheciis paucis, 4-6 aggregatis, majusculis, stromate subcarbonaceo, linea nigra lignum penetrante circumscripto immersis, ostiolis obtusis, validis, late hiantibus, in discum conicum prominulum, erumpens conjunctis; ascis clavato-cylindræis, 75-84 = 10-12; sporidiis distichis, oblongo-ellipsoideis, medio constrictis, utrinque appendiculatis, 10-15 = 3, hyalinis, pluriguttulatis.

*Hab.* in ramis emortuis *Ilicis opacæ*, New Jersey Amer. bor. — Appendiculæ, sporidiorum longitudinem æquant, mox dilabuntur; superior apice curvula.

28. **D. Chorostate Eucalypti** Harkn. New Calif. Fungi p. 24. — Pe- 2898  
ritheciis in acervulos valsoideos, linea atra circumscriptis, aggregatis, rostris 1 mm. vel amplius longis, laxis, sæpe agglutinatis; ascis oblongo-fusoideis, 33 = 7; sporidiis fusiformibus, vix curvulis, hyalinis, 1-septatis, 4-guttatis, acuminatis, 15 = 4.

*Hab.* in foliis emortuis *Eucalypti Globuli*, S. Francisco in California.

29. **D. Chorostate binocolata** (Ellis) Sacc. *Valsa binocolata* Ellis Torr. 2899  
Bot. Cl. 1882, p. 111. — Peritheciis 3-6 aggregatis, majusculis, stromate e cortice formato lineaque nigra, lignum non penetrante, circumscripto immersis; ostiolis erumpentibus, subglobosis, latiuscule hiantibus; ascis clavato-cylindræis, 125-150 = 15-18; paraphysibus obtusis granulosus obvallatis, octosporis; sporidiis mono-

stichis, late ellipsoideis, subhyalinis, 1-septatis constrictisque, 2-nucleatis, 20-25 = 12-14.

*Hab.* in truncis emortuis Magnoliæ glaucæ, New Jersey Amer. bor. — Ostiola subinde delitescens et tunc fungi vix indicium.

30. **D. Chorostate æsculicola** (Cooke) Berl. et Vogl. Add. Syll. p. 105, 2900

*Valsa* Cooke in Grevillea XIV, p. 47. — Pustulis orbicularibus, in lineas breves dispositis; peritheciis subglobosis, atris, congestis, ostioliis cylindricis, convergentibus, levibus, emergentibus; ascis clavatis; sporidiis biserialibus, fusoides, quadrinucleatis, demum uniseptatis, hyalinis, 20 = 4.

*Hab.* in ramulis Æsculi, Sydenham Britannia.

31. **D. Chorostate Hippocastani** (Cooke) Berl. et Vogl. Add. Syll. 2901

p. 105, *Valsa* Cooke in Grevillea XIII, p. 98. — Pustulis paucis; peritheciis (6-8) in cortice immersis et cuticulam e compositis ostioliis convergentibus perforatam elevantibus; peritheciis subglobosis, depressis, plerumque gregariis, atris; ascis clavatis, sessilibus, 8-sporis; sporidiis fusiformibus, biserialibus, uniseptatis, biguttulatis, ad septa parum constrictis, aliquando utrinque appendicula hyalina præditis, hyalinis, 25-28 = 5-7.

*Hab.* in ramulis Æsculi Hippocastani, Kew, Bustey Park Hampton Court et Honnington Britann.

32. **D. Chorostate stictostoma** Ellis Amer. Nat. 1883, pag. 316 (*D.* 2902

*punctostoma*). — Stromate corticali, e cortice immutato formato; peritheciis 8-12, monostichis,  $\frac{1}{2}$  mm. diam., ostioliis brevibus cylindraceis, apice in disculum olivaceum, leniter elevatum,  $\frac{3}{4}$  mm. diam. junctis, disco erumpente, epidermide arcte cincto ostioliisque perforato; ascis clavato-cylindraceis, 55 = 8-9; sporidiis biserialibus oblongo-ellipticis, 4-nucleatis, medio leniter constrictis, hyalinis, 11-13 = 4-4,5.

*Hab.* in ramis emortuis Amelanchieris canadensis, Decorah Iowa Amer. bor. (E. W. HOLWAY).

33. **D. Chorostate tuberculosa** (Ellis) Sacc. *Valsa tuberculosa* Ellis 2903

Bull. Torr. Bot. Cl. 1882, p. 112. — Peritheciis 8-10 aggregatis, globosis, 350  $\mu$ . diam., stromate e cortice immutato nisi solidiore et nigro-circumscripto formato immersis, ostioliis brevibus cylindraceis, obtusis, irregulariter pertusis, fasciculatim erumpentibus; ascis late lanceolatis, 75 = 15, octosporis, filiformi-paraphysatis (?); sporidiis distichis, ellipsoideis, 2-nucleatis (1-septatisque?), 12-13 = 7,5.

- Hab.* in ramis emortuis *Amelanchieris canadensis*, New Jersey America boreali.
34. **D. Chorostate cylindrospora** Peck 38 Rep. St. Mus. p. 104. — 2904  
 Stromatibus valsoideis, prominulis, erumpentibus sparsis; peritheciis numerosis, 15-30 in quoque stromate, stipatis, epidermide intus nigrescente tectis, ostiolis longis, stipatis, exsertis, fere æqualibus, nigris; ascis acutis, subfusiformibus, 45-55  $\approx$  6-8; sporidiis subcylindræis, stipatis vel distichis, quadrinucleatis, 13-16  $\approx$  3-4.  
*Hab.* in ramis emortuis *Pruni pensylvanicæ* in montibus Adirondack Amer. bor.
35. **D. Chorostate Cratægi** (Curr.) Fuck. — Sacc. Syll. I, pag. 204. 2905  
 Incertum an huc spectet *Pseudovalsa (Valsaria) Cratægi* Winter, Cooke in Grevillea XIV, pag. 48. — Stromate valsoideo; sporidiis subuniseriatis, ellipticis, uniseptatis, pallide fuscis, 16-18  $\approx$  6.  
*Hab.* in *Cratægo* in Germania.
36. **D. Chorostate Cydoniæ** Pass. Diagn. Fung. novi, III, n. 14. — 2906  
 Acervulis valseis, laxè vel crebre erumpentibus, pulvinatis, parenchymati corticali insidentibus; peritheciis subglobosis intus albidis, ostiolo obtuso vix emergentibus; ascis cylindræo-clavatis, curvis, 8-sporis, 100-112  $\approx$  12; sporidiis oblique uniseriatis vel subdistichis, oblongo-ovatis, prope medium septatis, leniter constrictis, loculis inæqualibus haud guttulatis, altero angustiore, hyalinis, 17,5  $\approx$  7,5.  
*Hab.* in ramulis *Cydoniæ*, sociâ *Phoma Cydoniæ*, Parma.
37. **D. Chorostate elæostroma** (Cooke) Berl. et Vogl. Add. Syll. p. 107, 2907  
*Valsa olivæstroma* Cooke in Grevillea XIV, p. 48. — Erumpens; pustulis sub epidermide nidulantibus; peritheciis 6-10 in circulos dispositis, stromate olivaceo, pulveraceo insidentibus, collis subelongatis convergentibus; ascis clavatis, octosporis; sporidiis subuniseriatis, lanceolatis, medio uniseptatis, leniter constrictis, hyalinis, 26-28  $\approx$  8.  
*Hab.* in ramis *Cerasi Avium*, Jedburgh Britannicæ.
38. **D. Chorostate columbiensis** Ell. et Ev. Proc. Phil. 1890, p. 233. 2908  
 — Peritheciis in acervulos subcircinantibus, cortice interiore immersis basi que ligno insculptis, 3-6 in quoque acervulo,  $\frac{3}{4}$ -1 mm. diam., infra collabentibus, in colla breviter ostiolo subquadrisulcato coronata erumpentia contractis, crusta tenui nigra, stromatica tectis, stromate corticali intus expallente, ellipsoideo, 2-5 mm. d.; zona atra circumscripto; ascis oblongo-lanceolatis, 100  $\approx$  12; spo-

ridiis biseriatis, oblongis, 20-22  $\approx$  7-8, constricto 1-septatis, 2-nucleatis, hyalinis.

*Hab.* in truncis emortuis arboris ignotæ, in Columbia britannica Amer. bor. (MACOUN).

39. **D. Chorostate elephantina** Cooke et Harkn. in Grevillea XIV, 2909 pag. 8. — Pustulis valsæformibus, rarissime dispersis; peritheciis cortice immersis vel ligno adnatis, globosis, atris, ostiolis tenuibus, elongatis, flexuosis, cylindræis, emergentibus; ascis clavatis, octosporis; sporidiis lanceolatis quadrinucleatis, mox uniseptatis, hyalinis, 12  $\approx$  3,5.

*Hab.* in caulibus Geranii in California (HARKNESS).

40. **D. Chorostate Gladioli** Ell. et Ev. in Journ. of. Myc. 1886, p. 101. 2910 — Peritheciis matrice immersis, epidermide nigrescente tectis, maculas albas, definite limitatas. 2-3 mm. long., subinde confluentes et tum 1 cm. vel amplius longas occupantibus, circiter  $\frac{1}{4}$  mm. diam., parcis, sæpe 1-2 in quaque macula, subinde etiam 6-8, ostiolo setiformi donatis; ascis stipitatis, p. sp. circiter 40  $\approx$  6-7; sporidiis distichis, subfusoides, 7-10  $\approx$  2,5, binucleatis, demum 1-septatis, hyalinis.

*Hab.* in caulibus emortuis Gladioli, Louisiana Amer. bor. (LANGLOIS).

## II. Euporthe Nits.

41. **D. Euporthe ilicina** Cooke Fungi Brit. 490, Grev. XVIII, p. 74. 2911 — Stromate ramulos cortice relaxato, in ligni superficie nigricante limitato, peridermio decolorato, linea nigra circumscripto; peritheciis globulosis, singulis vel gregariis, ostiolo leniter emergente; ascis subfusoides; sporidiis lanceolatis, quadrinucleatis, dein uniseptatis, 16-18  $\approx$  3.

*Hab.* in ramis Ilicis Aquifolii in Britannia.

42. **D. Euporthe leucosarca** Ell. et Ev. Proc. Phil. 1890, p. 233. — 2912 Peritheciis dense sparsis, cortice immutato immersis et epidermide pustulatim bullata ostiolisque minutis papillatis perforata tectis; ascis oblongo-cylindræis, 80-110  $\approx$  20-22, aparaphysatis (?); sporidiis biseriatis, late fusoides, hyalinis, 1-septato-constrictis, 2-guttatis, 22  $\approx$  7-8, 1-septatis constrictisque, 2-nucleatis.

*Hab.* in ramis emortuis Carpini americanæ, London Canada Amer. bor. (DEARNESS).

43. **D. Euporthe silvestris** Sacc. et Berl. Miscell. Myc. II, p. 27. 2913 n. 121, tab. VIII, fig. 7. — Peritheciis laxè gregariis, ligno semi-

infossis et peridermio tectis, linea angusta, endoxyla, atra, hinc inde circumscriptis, globulosis,  $\frac{1}{2}$  mm. diam., ostiolis vix emergentibus; ascis tereti-fusoideis, 45-50  $\approx$  6-8; sporidiis octonis, distichis v. oblique monostichis, fusoides, constricto 1-septatis, 14-15  $\approx$  5, 4-guttatis, hyalinis, utrinque initio minute hyalino-apiculatis.

*Hab.* in sarmentis *Vitis viniferæ silvestris*, Cervarese, Padova Italiæ borealis.

44. **D. Euporthe megalospora** Ell. et Ev. Proc. Phil. 1890, p. 235. — 2914

Peritheciis globosis,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam., sparsis, ligno intus expallente superficie atrato immersis, in ostiola elongata, rugulosa, 2-3 mm. long., subflexuosa abrupte contractis; ascis p. spor. 70-90  $\approx$  10-12; sporidiis distichis oblongo-fusoideis, leniter curvis, 1-septatis constrictisque, 2-4-nucleatis, utrinque acutis, 25-35  $\approx$  4,5-5,5.

*Hab.* in ligno emortuo *Sambuci canadensis*, Manchester Mass. Amer. bor. (W. C. STURGIS). — Angustior quam *Diap. leucosarca*.

45. **D. Euporthe hypoxyloides** Rehm Ascom. Ill. n. 874, — Stroma- 2915

tibus rotundis vel oblongis, sæpe confluentibus,  $\frac{1}{3}$ -3 cm. longis,  $\frac{1}{2}$ -1 cm. latis, 3-4 mm. altis, hypoxyloideis, intus suberoideis, fuscis, extus nigris; peritheciis stromate nidulantibus et circ. 1 mm. profunde immersis, solitariis, globosis, 0,3-0,4 mm. diam.; peritheciis globosis vel more *Lophiostomatum* plus minusve lineariter compresse protuberantibus, collis conoideis, obtusis, poro perspicuo pertusis; ascis fusoides, teneris, 8-sporis, 60-66  $\approx$  7-8; sporidiis cylindratis, obtusis, rectis, nucleis 2-4 magnis præditis, demum 2-cellularibus et medio vix constrictis, utrinque apice appendicula 3  $\mu$ . longa auctis, 12-15  $\approx$  3, distichis.

*Hab.* ad corticem interiorem *Aceris* emortui in silva montis Arber Böhmerwald. — Habitu hypoxyleo dignoscenda species.

46. **D. Euporthe Chionanthi** Brun. Champ. Nouv. obs. env. Saint. 2916

II, p. 4. — Stromate parvo, oblongo vel elongato, in ramis decorticatis effuso, nigro superficiem maculante, linea atra in lignum penetrante limitato; peritheciis nigris, gregariis, ligno immersis, globulosis, ostiolo vix erumpente donatis; ascis fusoides, 52-70  $\approx$  7-8, octosporis; sporidiis distichis, oblongo-fusoideis, 3-septatis, («an genuine?») non vel vix medio constrictis, hyalinis, 12  $\approx$  3.

*Hab.* in ramis emortuis *Chionanthi virginicæ*, Saintes Galliæ.

47. **D. Euporthe scobinoides** Schulz. et Sacc. in Rev. Myc. 1884, 2917

Schulz. Ill. Fung. Slav. n. 803. — Peritheciis laxè gregariis, ligno



subimmutato vel superficie leniter infuscato penitus immersis, linea stromatica nigra, per lignum sinuose excurrente, circumscriptis, globulosis 0,3-0,4 mm. diam., collo teretiusculo, in ostiolum erumpens, obtusiusculum desinente; ascis fusoideis, sessilibus, octosporis,  $15 \approx 8$ ; sporidiis distichis, oblongo-fusoideis, utrinque obtusiusculis 4-guttatis, medio-constrictis,  $10-14 \approx 3$ , hyalinis.

*Hab.* in ramis dein decorticatis *Fraxini excelsioris* pr. Vinkovce Slavoniæ

48. **D. Euporthe gorgonoidea** Cooke et Hark. in *Grevillea* XIII, 2918 p. 18. — Stromate effuso, cortice facile solubili tecto, ligni superficiem nigrificante v. crustam interruptam sistente, intus nigro-limitato; peritheciis globosis, ligno immersis, plerumque dense stipatis; ostioliis cylindricis, gracilibus, flexuosis, maxime elongatis; ascis cylindrico-clavatis, octosporis; sporidiis fusoideis, biseriatis, rectis, quadrinucleatis, demum 2-4-cellularibus, hyalinis,  $15-17 \approx 3$ .

*Hab.* in ramis emortuis *Acaciæ* in California (HARKNESS). — Diversa a *D. medusæa* et *D. fasciculata*.

49. **D. Euporthe ceuthosporioides** (Berk.) Sacc. Syll. I, pag. 646. — Forma **Lauri nobilis** Pass. in litt. ad Brunaud. — A typo differt 2919 stromate minus nitente, ceterum simillimo et piceo (forte initio rufescente ut mavult cl. Berkeley), ascis minoribus,  $60 \approx 7-8$ , sporidiisque quoque minoribus,  $11-13 \approx 3,5-4$ .

*Hab.* in foliis *Lauri nobilis*, Saintes Galliæ (BRUNAUD). — In utraque forma sporidia sunt utrinque obtusiuscula, sed videntur mucronulo mucoso, perexiguo aucta.

50. **D. Euporthe Malbranchei** Sacc. Syll. I, p. 361. — Var. **abscondita** Berl. Exc. Frioul p. 7, t. 9, f. 3. — A typo differt peritheciis profunde ligno immersis, 300-400  $\mu$ . diam.; sporidiis crassioribus,  $12-14 \approx 5-7,2$ — raro 4-guttatis, utrinque crassiuscule appendiculatis.

*Hab.* in ramis decorticatis *Fici Caricæ*, Osoppo Ital. bor.

51. **D. Euporthe Peckii** Sacc. *D. sparsa* Peck 39 Rep. p. 52 (1886), nec Niessl (1883). — Peritheciis parcis, minutis, sparsis, ligno superficie atrato immersis; ascis clavatis v. subcylindricis,  $75-85 \approx 7-10$ ; sporidiis confertis, oblongis vel subfusoideis, hyalinis, ad septum constrictis, 4-nucleatis,  $20-30 \approx 5-6,5$ .

*Hab.* in ramis *Rhois Toxicodendri*, Saugerties Amer. bor.

52. **D. Euporthe Orobanches** Berl. Exc. Frioul p. 8, t. 9, f. 2. — 2922 Stromate late effuso, maculas nigras magnitudine varias sæpe formante vel epidermidem in nigrum tingente, intus linea atra circumscripto; peritheciis aggregatis, sub epidermide offuscata nidu-

lantibus, minutis, globulosis, caule immersis, in collum longum cylindraceum, sinuosum abeuntibus; ascis clavatis, 1-2-foveolatis, 70  $\approx$  7, 8-sporis; sporidiis subdistichis, oblongo-ovoideis, medio 1-septatis constrictisque, 4-guttulatis, 10-12  $\approx$  3, hyalinis.

*Hab.* in caulibus emortuis Orobanches, Osoppo agri Forojulensis Ital. bor.

53. **D. Euporthe Characiæ** H. Fab. Sphér. Vaucl. p. 45. — Stromate 2923 superficiali, late effuso, lignum denudatum fuligineo inquinante; peritheciis sparsis, ligno immutato infossis, globosis, matricem leniter inflantibus,  $\frac{1}{2}$  mm. latis, ostiolo elongato, stricto, recto v. deflexo, corticem secedentem perforante; ascis lanceolatis, sessilibus, 8-sporis, 55-70  $\approx$  7-9; sporidiis distichis, hyalinis, oblongis, utrinque obtusiusculis, medio constrictis et tenuissime septatis, 4-guttatis, 15-18  $\approx$  4.

*Hab.* ad basim putrescentem Euphorbiæ Characiæ, Vaucluse Galliæ.

54. **D. Euporthe Rubiæ** H. Fab. Sphér. Vaucl. p. 46. — Peritheciis 2924 sparsis aut parcis acervulatis, ligno immutato infossis,  $\frac{1}{4}$  mm. latis, ostiolo epidermidem erumpente, longe rostellato, flexuoso, diametrum perithecii bis et quatuor superante; ascis lanceolatis, sessilibus, 8-sporis, 50-54  $\approx$  7-8; sporidiis distichis, oblongo-lanceolatis, medio constrictis et subtiliter septatis, 4-guttatis, 15  $\approx$  4.

*Hab.* ad caules exsiccatos Rubiæ peregrinæ, Vaucluse Galliæ.

55. **D. Euporthe hemicrypta** (Dur, et Mont.) Sacc. *Sphæria hemicrypta* 2925 Dur. et Mont. Syll. Crypt. n. 837 et Fl. Alg. I, pag. 517. — Peritheciis tectis simplicibus aggregatisque subcircinantibus, globosis, atris, ligno semiimmersis collabentibus levibus, in ostiolum longum angustatis, ostiolis erumpentibus solitariis aut junctis cylindricis subdivergentibus; ascis oblongo-subclavatis, 50  $\approx$  12-13; sporidiis cymbiformibus, hyalinis, triseptatis (an potius 4-nucleatis?), 10  $\approx$  2,5.

*Hab.* in ramis Physalidis somniferæ, Rhois Coriariæ et Anagyridis fœtidæ, Alger (DURIEU).

56. **D. Euporthe discrepans** Sacc. Mich. II, pag. 568. — Peritheciis 2926 hinc inde dense gregariis, ligno superficie late infuscato v. denigrato immersis, globosis,  $\frac{1}{3}$  mm. diam., ostiolis erumpentibus breve rostellatis; ascis tereti-fusoideis, utrinque obtusiusculis, 65  $\approx$  8-9, octosporis, aparaphysatis; sporidiis oblique monostichis v. distichis,

cylindræis v. subfusoides, utrinque obtusis, rectis curvulisve, medio lenissime constrictis, 10-12  $\approx$  3,5-4, 4-guttatis, hyalinis.

*Hab.* in caulibus Rumicis emortuis, Newfield N. J. (ELLIS). — A *D. discorde*, cui affinis, ostiolis elongatis, sporidiis minoribus mox dignoscitur.

57. **D. Euporthe apiculosa** Ellis Torr. Bot. Cl. 1882, p. 19. — Peri- 2927  
theciis caule immersis, ostiolis obtusiusculis, prominentibus superficiemque asperulam reddentibus; ascis oblongis, p. sporif. 40  $\approx$  7-8; sporidiis fusoides, utrinque breve apiculatis, 8-10  $\approx$  4,5.

*Hab.* in parte ima caulium Erigerontis canadensis, dejectorum, New Jersey Amer. bor.

58. **D. Euporthe immutabilis** Cooke et Harkn. in Grevillea XIV, 2928  
pag. 9. — Stromate varie effuso interruptoque, caulis superficiem vix decolorante, linea nigra in ligno limitato; peritheciis sparsis globosis, ostiolis brevibus, punctiformibus; ascis clavatis, octosporis; sporidiis sublanceolatis, biserialibus, rectis curvulisve, 2-4-nucleatis, uniseptatis, hyalinis, 12-14  $\approx$  4.

*Hab.* in caule Scrophulariæ in California (HARKNESS).

59. **D. Euporthe Tulasnei** Niessl. — Sacc. Syll. I, pag. 657, forma 2929  
**Galegæ** Wint. Contr. Fl. Myc. Lus. V, pag. 18. — Differt a forma typica; ostiolis interdum valde elongatis, nodulosis, flexuosis; sporidiis parum crassioribus, semper medio constrictis.

*Hab.* in caulibus putridis Galegæ officinalis cum spermogoniis, Coimbra in Lusitania (MOLLER). — An species distincta?

60. **D. Euporthe brachystoma** Sacc. et Malbr. Fung. Gall. ser. V, 2930  
n. 2163. — Stromate effuso, epidermidem decolorante lineaque sinuosa, nigra circumscripto; peritheciis gregariis, cortice tectis lignoque adnatis, globoso-depressis,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. diam., nigris; ostiolo brevissimo, vix emergente; ascis fusoides, sessilibus, aparaphysatis, octosporis, 70  $\approx$  7; sporidiis distichis, ovato-fusoides, 12  $\approx$  3,5, rectis, utrinque obtusiusculis, 4-guttatis, dein 1-septatis, hyalinis. — Spermogoniis *Phomam Dianthi* sistentibus, peritheciis in macula picea plerumque innatis, epidermide velatis, globoso-depressis; sporulis ovato-oblongis, 7  $\approx$  3, biguttatis, hyalinis, stipitellis filiformibus, curvis, 10-12  $\approx$  1-2 suffultis.

*Hab.* in caulibus emortuis Dianthi barbati, Brionne Galliæ. — Hinc *Diaporthi intermedicæ*, illinc *D. Tulasnei* affinis species.

61. **D. Euporthe Kellermanniana** Winter in Torr. bot. Club. 1885, 2931  
p. 49. — Stromate nullo; peritheciis profunde immersis, depresso

globosis, membranaceis, atris, 210-260  $\mu$ . latis, ostiolo erumpente præditi; ascis oblongo-fusoideis, 8-sporis, 35-40  $\approx$  5-7; sporidiis oblongis, sæpe inæquilateralibus, utrinque rotundatis vel parum acutiusculis, medio uniseptatis, non constrictis, 4-guttulatis, 9-11  $\approx$  3-3,5.

*Hab.* ad culmos putridos Zeæ Maydis pr. Lexington Amer. bor. (W. A. KELLERMANN).

62. **D. Euporthe fuegiana** Speg. F. Fueg. n. 217. — Stromatibus plus minusve late effusis, in ramis decorticatis, maculas extus atras crustosas undulatas irregulariter lineares, 1-5 cm. long., 1-3 mm. lat., flexuosas intus albas linea nigra tenui limitatas efficientibus; peritheciis densiuscule constipatis v. subseriatis ligno immersis, contextu parenchymatico-sinuoso subindistincto, ostiolo carbonaceo elongato longiuscule exserto crassiusculo, recto v. flexuoso; ascis fusoideis, apice stricte rotundato subtruncatis, postice acutato-rotundatis, 60-65  $\approx$  10, octosporis, aparaphysatis; sporidiis oblique distichis, elliptico-elongatis, utrinque acutis ac strictissime rotundato-subtruncatis, 18-20  $\approx$  5-6, medio 1-septatis, non constrictis, loculis sæpe parce coarctatulis non v. grosse 2-guttulatis, hyalinis.

*Hab.* non rara in ramis emortuis Chilitrichi amelloidis per Fuegiam totam.

63. **D. Euporthe antarctica** Speg. F. Fueg. n. 215. — Stromatibus plus minusve late effusis, in ramis denudatis maculas extus irregulariter elongatis, strictis, 1-2 cm. long., 1-2 mm. lat., tumidulas atras subcrustosas, intus pallescentes v. albas, linea tenuissima candida limitatas efficientibus; peritheciis densiuscule constipatis, subseriatis ligno immersis, subprominulis, globulosis, 400-450  $\mu$ . diam., tenui-membranaceis, fuscis, contextu parenchymatico oblongo subimperspicuo, ostiolo minuto obtuse rotundatis, postice attenuato-acutatis, 40-60  $\approx$  10-14, octosporis, aparaphysatis; sporidiis oblique distichis, ellipticis, utrinque obtuse acutatis, 14-15  $\approx$  5-6, medio 1-septatis, lenissime constrictis, loculis non v. grosse 2-guttulatis, hyalinis.

*Hab.* ad ramos emortuos Pernettiæ mucronatæ in dumetis in Staten island Fuegiæ.

## II. *Tetrastaga* Nits.

64. **D. Tetrastaga didymelloides** Sacc. et Malbr. Mich. II, p. 594. — Peritheciis laxè v. dense gregariis cortice immersis, globoso-depressis, ostiolo minuto vix erumpente, linea stromatica nulla vel ob-

soleta; ascis fusoido-clavulatis, subsessilibus, 55-60  $\approx$  7-8, octosporis, aparaphysatis; sporidiis distichis, fusoidis, 14-15  $\approx$  4, 4-guttatis 1-septatis vix constrictis, hyalinis, rectiusculis.

*Hab.* in ramis corticatis *Lonicerae*, Elbeuf Galliae (MALBRANCHE). — Stromate obsoleto ad *Didymellam* nutat, sed paraphyses nullæ et sporidia prorsus diaportheoidea.

65. **D. Tetrastaga incompta** Sacc. Mich. II, p. 565. — Peritheciis 2935  
sparsis vel hinc inde subaggregatis, grandiusculis, cortice intus infuscato nidulantibus; ostioliis vix erumpentibus, punctiformibus; ascis tereti-fusoidis, 60  $\approx$  8-10, apice subtruncatis, deorsum attenuatis, octosporis, aparaphysatis; sporidiis distichis, fusoidis, 1-septatis, lenissime constrictis, 14-16  $\approx$  4, rectis curvulisve, 4-guttulatis, utrinque acutiusculis, hyalinis.

*Hab.* in ramis corticatis *Ampelopsidis hederaceæ*, Ecully (Rhône) Galliae (THERRY).

66. **D. Tetrastaga santonensis** Sacc. Fung. Gall. ser. V, n. 2162. 2936  
— Stromate obsoleto; peritheciis epidermide translucida tectis, globoso-depressis, nigris,  $\frac{1}{3}$  mm. diam.; ostiolo brevissimo, obtuso perforante; ascis fusoidis, sessilibus, aparaphysatis, 55-60  $\approx$  12, octosporis, apice minuto, 2-foveolato; sporidiis distichis vel oblique monostichis, fusoidis, inæquilateralibus, 1-septatis, leniter constrictis 14-18  $\approx$  5, 4- dein 2-guttatis, hyalinis, utrinque appendiculâ brevi, acuta, hyalinâ ornatis.

*Hab.* in cortice ramulorum *Salicis vitellinæ*, Saintes Galliae (BRUNAUD). — Quum stroma sit indistinctum, ad *Gnomonice* genus nutat, cui fructificatione quoque accedit; at et cum *Diaporthe salicella* et *D. Spina* affinitas manifesta.

67. **D. Tetrastaga exasperans** Nitschke. — Sacc Syll. I, pag. 686. 2937  
Var. **santonensis** Pass. in litt. Brun. in Rev. Myc. 1886, p. 205.  
— Peritheciis corticis, in stromate pustuliformi, 2-3-aggregatis, vix erumpentibus; ascis oblongo-claviformibus, sæpe basi incurvatis, attenuatis, paraphysibus gracilibus, longioribus cinctis, 50-72  $\approx$  8-5, octosporis; sporidiis distichis, fusoidis, 1-septatis, vix constrictis, hyalinis, loculis biguttulatis, obscure septatis, 15  $\approx$  5.

*Hab.* in ramulis emortuis *Betulae albæ*, Saintes Galliae.

68. **D. Tetrastaga Terebinthi** H. Fab. Sphér. Vaucl. p. 46. — Stro- 2938  
mate, sub epidermide immutata et secedente, corticem caulium fuligineo late inquinante; peritheciis cortici infossis, sparsis vel gregariis et matricem inflantibus, globosis,  $\frac{1}{3}$  mm. latis; ostioliis nunc papillatis, nunc elongatis, cylindraceutis, curvulis et fascicula-

tim erumpentibus; ascis lanceolatis, sessilibus, 8-sporis, 45-50  $\approx$  7; sporidiis lanceolatis, medio constrictis, et subtile septatis, subdistichis, 4-guttatis, hyalinis, 12  $\approx$  3-4.

*Hab.* ad basim caulium emortuorum Pistaciæ Terebinthi, Vaocluse Galliæ.

69. **D. Tetrastaga dolosa** Sacc. et Roum. in Rev. Myc. 1883, tab. 2939 39, fig. 5. — Stromate vix ullo manifesto; peritheciis dense et æqualiter gregariis, cortice immersis, globulosis, vix  $\frac{1}{2}$  mm. diam., intus griseis, ostiolo brevissimo, obtuso, perforante; ascis fusoideis, 60-70  $\approx$  10-12, octosporis; sporidiis distichis, fusoideis, utrinque obtusiusculis, medio constricto-1-septatis, 4-guttatis, hyalinis, 10-12  $\approx$  4.

*Hab.* in ramis junioribus Robiniæ Pseudacaciæ in Arduennis (LIBERT). — A *D. oncostoma* diversissima.

70. **D. Tetrastaga punctulata** Sacc. Bomm. Rouss. Mycol. Belg. II, 2940 p. 11. — Peritheciis globulosis, sparsis, 250-260  $\mu$ . diam., epidermide atrata tectis, stromate corticali nigro-limitato immersis, ostiolo erumpenti, punctiformi; ascis tereti-clavatis, 60-70  $\approx$  7-8, subsessilibus, 8-sporis; sporidiis distichis, ellipsoideo-fusoideis, obtusis, 1-septatis, constrictis, 4-guttulatis, 12-15  $\approx$  4-4,5, hyalinis.

*Hab.* in ramis Tecomæ radicans, Parc de Tervueren Belgii. — A *D. spissa* differt ostiolis minus exsertis, ascis sporidiisque paullo majoribus.

71. **D. Tetrastaga priva** Sacc. et Roum. in Rev. Myc. 1884. — Stro- 2941 mate effuso sed vix manifesto lineaque nigra privo; peritheciis gregariis cortice immersis, globosis,  $\frac{1}{3}$  mm. diam., ostiolo erumpente sed vix exstante; ascis fusoideis, aparaphysatis, 65  $\approx$  8, octosporis; sporidiis distichis, fusoideis, rectis, utrinque obtuse attenuatis, 16-18  $\approx$  4,5-5, medio constricto-1-septatis, 4-guttatis, hyalinis.

*Hab.* in ramis corticatis Fraxini Orni in Arduennis (LIBERT). — A ceteris speciebus fraxinicolis stromate obsoleto, linea nigra deficiente, sporidiis ratione majusculis mox dignoscitur.

72. **D. Tetrastaga interrupta** Niessl Contr. Fl. Myc. lus. p. 17. — 2942 Stromate maculiformi, diatrypeo, toto immerso, haud expanso, atropurpureo, interdum expallente, linea atra limitato; peritheciis paucis, in singulo stromate sæpe solitariis, in corticis parenchymate nidulantibus, depresso globosis; ostiolo minimo abbreviato, vix erumpente; ascis lanceolato-clavatis, stipite brevi, 8-sporis, 50-60  $\approx$  6-7; sporidiis laxè distichis, fusiformibus, acutiusculis, rectis sed pa-

rum inæquilateralibus, medio septatis, haud constrictis, 4-guttulatis, hyalinis, 9-11  $\approx$  2-3.

*Hab.* ad ramulos emortuos *Tecomæ* radicans, in horto botanico, Coimbra Lusitaniæ. — A *Diaporthe Lebiseyi* differt: stromatibus exiguis, peritheciis erostellatis, ascis magis elongatis.

73. **D. Tetrastaga Vepris** (de Lacr.) Fuck. — Syll. I, p. 667. — Var. 2943

**Rosarum** Pass. in Brun. Champ. nouv. VI, pag. 1. — Peritheciis cortice interiore immersis, globulosis, nigris, ostiolis punctiformibus; ascis subfusoideis, 25-30  $\approx$  8; sporidiis distichis, fusoideis, 1-septatis, non constrictis, rectis, 10  $\approx$  2,5, obscure guttatis, hyalinis.

*Hab.* in sarmentis emortuis *Rosæ caninæ*, Saintes Galliæ. — Ad *D. Vepris* var. *appendiculatam* Rehm — Syll. I, p. 668 — spectare videtur *Sphæria dichætospora* Ripart Bull. Soc. bot. France 1876, p. 225.

74. **D. Tetrastaga Neilliae** Peck 39 Rep. p. 52, t. II, f. 6-9. — Peri- 2944

theciis numerosis, 0,5-0,6 mm. diam., late, laxe et inæqualiter aggregatis, cortice interiore immersis lignoque sæpe leviter insculptis, epidermide ostiolis conicis v. rostellatis nigris perforata tectis, infra subinde concavis; ascis subcylindricis, 60  $\approx$  7-10; sporidiis confertis v. biseriatis, oblongis v. subfusoideis, ad septum leniter constrictis, 2-4-nucleatis, 13-16  $\approx$  5-6.

*Hab.* in ramulis emortuis *Spirææ* (*Neilliae*) *opulifoliæ*, Albany Amer. bor. — Perithecia raro subvalseo-aggregata.

75. **D. Tetrastaga oligocarpoides** Rehm Ascom. Ill. n. 875. — Stro- 2945

mate latissime effuso, ambiente, linea atra tenui, profunde in ligno immersa cincto, peridermii et corticis colore haud mutato; peritheciis 6-8 gregarie in interiore cortice nidulantibus, globosis, stroma valseum haud æmulantibus sed peridermium longitudinaliter dirumpentibus, 6-8 plerumque lineariter seriatis, collis plerumque brevibus, rarissime usque 2 mm. longis et flexuosis, haud perspicue pertusis, nigris prominentibus; ascis fusoideis, teneris, 8-sporis, 45-50  $\approx$  6-7; sporidiis elliptico-fusoideis, rectis, haud appendiculatis, 2-cellularibus, utraque cellula 1-2 nucleata, medio sæpe subconstricta, hyalina, 9-12  $\approx$  3, distichis.

*Hab.* ad ramos siccos *Rosæ caninæ* in Belgio (Mad. BOMMER et ROUSSEAU). — A *D. incarcerata* ascis sporidiisque minoribus recedit.

76. **D. Tetrastaga magellanica** Speg. F. Pat. n. 129. — Stromate 2946

effuso, obsoleto, corticis interioris et ligni superficiem nigrificante; peritheciis laxe gregariis v. sparsis cortice nidulantibus, vix tumi-

dulis, lenticulari-globosis, 300-400  $\mu$ . diam., ostiolis brevissimis, subconoideis epidermidem perforantibus sed vix exsertis; ascis fusoidis, 55-60  $\approx$  5-6, apice subtruncatis, inferne acutatis, aparaphysatis, octosporis; sporidiis distichis, elliptico-elongatis, 10-14  $\approx$  2,5-3, utrinque obtusiusculis, subinæquilateralibus, medio 1-septato-constrictis grosse 1-guttulatis, hyalinis.

*Hab.* ad ramos emortuos Ribis magellanici prope Cabo Negro Patagoniæ. — *D. miti* peraffinis, sporidiis tamen minoribus obtusioribusque recedens; an tantum ejusdem varietas?

77. **D. Tetrastaga Winteri** Speg. F. Fueg. n. 214. — Stromatibus 2947  
parum manifestis late per corticem excurrentibus; peritheciis hinc inde sparsis v. plus minusve dense aggregatis peridermio non v. vix fisso ac pustulato-elevato tectis, globulosis, 300-350  $\mu$ . d., coriaceo-membranaceis atris glabris, contextu indistincto opaco, ostiolo carbonaceo vix papillulato; ascis fusosideo-clavatis, antice obtuse rotundatis vel subtruncatis crasse tunicatis bifoveolatis, postice attenuatis acutato-rotundatis sessilibus, 60-65  $\approx$  8-9, octosporis aparaphysatis; sporidiis oblique mono- v. distichis ellipticis non v. subovatis utrinque obtuse rotundatis, 12-14  $\approx$  3,5-5 rectis v. leniter inæquilateralibus medio 1-septatis constrictulis, loculis (supero non v. vix crassiore) granuloso-farctis sæpe minute biguttulatis, hyalinis.

*Hab.* ad corticem ramorum emortuorum Drymidis Winteri in Staten island Fuegiæ.

78. **D. Tetrastaga densissima** Ellis Amer. Nat. 1883, p. 316. — Peritheciis minutis,  $\frac{1}{4}$  mm. diam., nigris, cortice interiore immersis, sæpius 15-30 congregatis; ostiolis brevibus, subulatis, leniter convergentibus, nec cohærentibus, peridermium mox decedens perforantibus; ascis clavato-cylindræis, 40-45  $\approx$  5-6; sporidiis biserialis, fusiformibus, 4-nucleatis, 11-15  $\approx$  2-2,5, initio utrinque minute setaceo-appendiculatis. 2948

*Hab.* in ramis Quercus coccineæ, Newfield New Jersey Amer. bor. — Linea stromatica nigra desideratur.

79. **D. Tetrastaga Conradi** Ellis Amer. Nat. 1883, p. 316. — Peritheciis sparsis, minutis, depresso-sphæricis, epidermide tectis, ligno non immersis lineaque nigra haud circumscriptis; ostiolis cylindræis, rectis, rugulosis, nigris, apice abrupte acutatis; ascis subcylindræis, 35-40  $\approx$  6-7, octosporis; sporidiis biserialis, ovato-ellipticis, 1-septatis, hyalinis, vix constrictis, 6-8  $\approx$  2 $\frac{1}{2}$ -3. 2949

*Hab.* in ramis emortuis Corematis Conradi, Willow Grove, New Jersey Amer. bor.



80. **D. Tetrastaga digitifera** Mout. Not. Ascom. p. 3. — Stromate 2950  
sub epidermide non mutata ambiente, corticis superficiem nigrificante et in ligno linea nigra limitato; peritheciis cortice immer-  
sis, subglobosis,  $\frac{1}{2}$  mm. diam., collis subtriplo longioribus, erum-  
pentibus a basi leviter attenuatis, curvulis; ascis clavatis, 8-spo-  
ris, apice truncatis,  $110 \approx 15$ ; sporidiis tereti-oblongis, medio septa-  
tis et vix constrictis, minute guttulatis,  $25-35 \approx 8,5$ .

*Hab.* in ramis Sarothamni scoparii prope Liège Belgii (MOUTON). — Var. **lignicola**: peritheciis ligno superficie atrato le-  
viter immersis, ostiolis modo crassiusculis, rugulosis, modo elon-  
gatis decumbentibus. In ramis decorticatis Sarothamni scopar-  
rii, Poix Galliæ (M. ROUSSEAU).

81. **D. Tetrastaga Mori** Berl. F. moric. f. V, n. 9, t. 25, f. 1-6. — 2951  
Stromate late effuso, epidermidem leviter nigrificante in cortice v.  
in ligno nigro-limitato; peritheciis solitariis vel 3-4 coacervatis,  
cortice immersis globoso-conoideis, minutis  $180-200 \mu$ . diam., sub-  
inde subtus cupulatis, ostiolo brevissimo obtuso; ascis clavatis, bre-  
vissime stipitatis, apice 1-2 foveolatis,  $36-40 \approx 7$ , octosporis; spo-  
ridiis irregulariter distichis, oblongis, utrinque rotundatis, muticis,  
4-5-guttulatis, primo continuis, medio constrictis, demum 1-septa-  
tis,  $10 \approx 3$ , hyalinis.

*Hab.* in ramulis corticatis emortuis Mori albæ, Padova in Ita-  
lia boreali.

82. **D. Tetrastaga delitescens** Bomm. Rouss. Sacc. sp. nov. — Pe- 2952  
ritheciis corticolis, peridermio tectis, globulosis, nunc 5-15 subcir-  
cinantibus stromateque albo-furfuraceo linea nigra cincto exceptis,  
nunc inæqualiter sparsis et stromate subnullo; ostiolis convergen-  
tibus; ascis clavatis,  $45-57 \approx 9-10$ , p. sporif., octosporis, subsessi-  
libus, aparaphysatis; sporidiis distichis, ellipsoideis mucronulatis,  
1-septatis, constrictis,  $12-15 \approx 4-5$ .

*Hab.* in ramis Liriodendri Tulipiferæ, Tervueren Belgii.  
— Extus vix visibilis. Ad *Chorostaten* nutat.

83. **D. Tetrastaga prominula** Bomm. Rouss. Sacc. Mycol. Belg. II, 2953  
p. 11. — Peritheciis globulosis, cortice non atrato immersis, spar-  
sis vel 2-8 aggregatis, pustulas minutas corticem vix perforantes  
formantibus; ostiolo tereti-conoideo, non exserto; ascis tereti-cla-  
vatis,  $57-70 \approx 12-15$ , octosporis; sporidiis distichis, tereti-fusoideis,  
obtusis, rectis curvulisve, 1-septatis, constrictis, utrinque ciliatis,  
 $17-18 \approx 5-6$ , 4-guttulatis, hyalinis.

*Hab.* in ramulis junioribus Myricæ Gales, Westmalle Belgii.

84. **D. Tetrastaga Ligustri** Allesch. Sueibay. Pilze p. 194, t. II, f. 3. 2954

— Stromate sub epidermide late effuso, linea nigra limitato, ligni superficie tandem atrata; peritheciis subsparis peridermio immer-  
sis vel ligno quoque insculptis, globoso-ellipsoideis, nigricantibus; ostiolis elongatis, basi incrassatis, rectis curvulisve, sæpe fascicu-  
latis; ascis clavatis, stipitatis, 8-sporis, 45-50  $\mu$ . long.; sporidiis distichis fusoides, obtusulis, 1-septatis vix constrictis, 4-guttula-  
tis, hyalinis, 12-14  $\approx$  3.

*Hab.* in ramis siccis Ligustri vulgaris pr. München Ba-  
variæ. — Affinis *D. crassicolli*.

85. **D. Tetrastaga Baccharidis** Cooke. — Syll. I, n. 692. — Var. 2955

**gallica** Brun. Champ. Saint. VII, p. 2. — Stromate minuto sub-  
ovato, epidermidem infuscante, linea nigra circumscripto; perithe-  
ciis globulosis, tectis; ostiolo brevi tantum erumpente; ascis fu-  
soideis, 45-60  $\approx$  6-7; sporidiis subdistichis fusoides, rectis cur-  
vulisve, 4-guttulatis, 1-septatis, non constrictis, 12-15  $\approx$  3-3,5,  
hyalinis.

*Hab.* in ramis tenellis emortuis Baccharidis halimifoliæ  
Fouras Galliæ.

86. **D. Tetrastaga Asclepiadis** Ell. et Ev. in Bull. Torr. bot. Club. 2956

1883, p. 98. — Stromatibus e maculis nigris superficiem caulium  
occupantibus formatis, 0,5 cm. longis v. confluentibus, intus linea  
nigra limitatis; peritheciis sparsis, globosis, 0,25 mm. diam. in sub-  
stantia caulis non omnino immersis; ostiolis obtusiusculis, cylin-  
draceis, crassis, 250-300  $\mu$ . longis; ascis 35-40  $\approx$  9, p. sp.; spori-  
diis distichis, ellipsoideis, medio constrictis, 3-4-nucleatis, subob-  
tusis, 10-12  $\approx$  3-4.

*Hab.* in caulibus emortuis Asclepiadis tuberosæ, Newfield  
Americæ borealis.

87. **D. Tetrastaga Lupini** Harkn. New Calif. Fungi p. 24. — Peri- 2957

theciis aggregatis; ostiolis brevibus crassiusculis; ascis delicatis, fu-  
soideis, 55-60  $\approx$  9.; sporidiis fusoides, 1-septatis, 4-guttatis, leniter  
constrictis; loculis sæpius inæqualibus, mox septo divisis, 15  $\approx$  4.

*Hab.* in ramis Lupini arborei, San Francisco Californiæ.

88. **D. Tetrastaga Geranii** Cooke et Harkn. in Grevillea XIV, p. 8. 2958

— Peritheciis gregariis, cortice immersis, sæpe nigro-limitatis,  
subglobosis, atris, initio tectis, dein rimoso-fissis; ostiolis brevibus,  
emergentibus; ascis clavatis; sporidiis lanceolatis, quadrinucleatis,  
hyalinis, 15-16  $\approx$  4.

*Hab.* in caulibus Geranii in California (HARKNESS).

89. **D. Tetrastaga Therryana** Sacc. et Penz. Mich. II, p. 593. — 2959

Stromate late effuso epidermidemque longe lateque denigrante lineaque nigra infra limitato; peritheciis gregariis cortice immersis, globulosis, mediocribus, nigris; ostiolis erumpentibus, filiformibus, flexuosis, caulem setulosum efficientibus; ascis fusoideis, 36-46  $\approx$  6-7, aparaphysatis, octosporis; sporidiis distichis fusoideis, 10-11  $\approx$  2,5-3, 4-guttatis, obsolete 1-septatis, hyalinis.

*Hab.* in caule Hellebori fœtidi, St. Bonnet le froid (Rhône) Galliæ (THERRY).

90. **D. Tetrastaga mucronulata** Sacc. Mich. II, pag. 568. — Perithe- 2960

ciis cortice superficie infuscato immersis lignoque adnatis, seriatim gregariis, globulosis,  $\frac{1}{4}$  mm. diam., ostiolo breve rostellato, emergente; linea stromatica nulla manifesta; ascis fusoideis, utrinque obtusiusculis, 60  $\approx$  10, aparaphysatis, octosporis; sporidiis distichis v. oblique monostichis, crassiuscule fusoideis, rectis vel curvulis, utrinque acutis atque mucronulatis, 14-15  $\approx$  6, medio septulatis leniterque constrictis, 4-guttatis, hyalinis.

*Hab.* in caulibus emortuis Asteris, Newfield New Jersey Amer. bor. (ELLIS).

## Sect. 5. Phæodidymæ.

**PHÆOSPHÆRELLA** Karst. Symb. Myc. Fenn. XXVI, p. 28 (Etym. *phæos* fuscus et *Sphærella*). — Characteres *Sphærellæ* sed sporidia colorata.

1. **Phæosphærella maculosa** (Sacc.) Karst. l. c., *Sphærella macularis* Karst. Myc. Fenn. II, p. 174, *Sphærella maculosa* Sacc. Syll. I, p. 487. — Sporidia demum flavo-fuliginea, 14-24  $\approx$  5-7.

**TICHOTHECIUM** Flotow in Wint. Hedw. 1886, p. 15 (Etym. *teichos* paries et *thece* ascus, quia sec. Flot. asci parietales). — Perithecia plus minusve immersa, demum emergentia, minuta, corneo-carbonacea, atra, poro simplici pertusa. Paraphyses mucosæ, interdum indistinctæ v. nullæ. Asci 4-8- vel polyspori. Sporidia bi-vel quadricellularia, fusca. — Meo sensu sectiones, in quas genus dividitur, genera distincta sistunt.

I. Asci 4-8-spori; sporidia uniseptata.

1. **Tichothecium gelidarium** (Mudd.) Berl. et Vogl. Add. Syll. p. 118, 2961  
*Sphæria gelidaria* Mudd Manual of Brit. Lichens p. 130. — Pe-

ritheciis nigris, maculiformibus, sparsis, nucleo albo fartis; paraphysibus distinctis, laxis, flexuosis mucosisque; ascis brevibus, cylindræis, 4-sporis, ad utramque extremitatem sporidiorum constrictis; sporidiis subrotundis vel late oblongis, irregularibus, protoplasmate obscure brunneo v. fuligineo fartis, indistincte bilocularibus, 10 = 6.

*Hab.* in thallo Squamarie gelidæ in Britannia.

2. **Tichothecium perpusillum** (Nylander) Arnold Lichenol. Fragm. XVI, 2962  
pag. 27 et in Wint. Hedw. 1886, pag. 17, *Endococcus perpusillus* Nyl. Exposit. Pyrenoc. p. 64. — Peritheciis minutis, sessilibus, fere globosis, ostiolo haud impresso, indistincte pertuso, atris, opacis, scabris, 0,1–2 mm. diam.; ascis elongato-clavatis vel fusiformibus, 8-sporis; sporidiis ellipticis, medio haud constrictis, sæpe parum curvatis, utrinque attenuatis rotundatisque, dilute fuscis, 15–21 = 6–7.

*Hab.* in *Aspicilia cinerea* et *A. gibbosa* in Germania et Britannia. — Teste Cl. Leighton, Lichen. of Great Brit. Edit. III, pag. 496, perithecia sunt minutissima, immersa, depresso globosa, atra; sporidia octona, oblonga, fusca, bicellularia, 14–19 = 6–7.

3. **Tichothecium Stigma** Körber Parerga Lichenol. p. 468 et Wint. in 2963  
Hedw. 1886, pag. 16. — Peritheciis minutissimis, punctiformibus, immersis, demum parum prominulis, atris, opacis, ostiolo indistincto, supra thallum dispersis; ascis clavatis vel fusiformi-clavatis, 8-sporis; sporidiis ellipticis, utrinque acutiusculis, medio sæpe subconstrictis, bicellularibus, interdum cellula superiori parum majori, fuligineis vel dilute rufo-fuscis, 14–20 = 5–6.

*Hab.* in thallo *Rhizocarpi geographici* et *Psoræ lamprophoræ* in Germania.

4. **Tichothecium macrosporum** Hepp in litt. sec. Arnold Lichenol. 2964  
Ausfl. III, p. 960 et Wint. in Hedw. 1886, p. 17. — Peritheciis initio omnino immersis, demum vertice prominulis, globosis, atris, poro distincto pertusis, circ.  $\frac{1}{10}$  mm. diam., plerumque gregariis; ascis oblongo-clavatis, deorsum longe attenuatis, 8-sporis, 60–65 = 17–21; sporidiis subdistichis, elliptico-oblongis, utrinque attenuato-rotundatis, uniseptatis, haud v. vix constrictis, fuscis, 16–24 = 6–8.

*Hab.* in thallo *Rhizocarpi geographici* et *R. alpicoli* in Germania.

5. **Tichothecium Arnoldi** (Hepp) Körber Par. Lichenol. p. 469, Wint. 2965  
Hedw. 1886, pag. 16. — Peritheciis minutissimis, punctiformibus, confertissime stipatis, immersis, globosis, ostiolo indistincto, atris,

substantia molliuscula, viridi-brunnea farctis; ascis breviter clavatis; sporidiis 6-3, soleæformibus, bicellularibus, cellula superiore majore, viridi-fuscis, 8-11  $\approx$  3-4.

*Hab.* in thallo *Urceolaria* scruposæ in Germania.

6. **Tichothecium calcaricolum** (Mudd) Arnold *Lichenolog. Ausfl.* XI, 2966 p. 521 et Wint. in Hedw. 1886, p. 16, *Microthelia calcaricola* Mudd *Manual* p. 306. — Peritheciis media magnitudine irregulariter sparsis, sessilibus vel basi immersis, globosis, poro submagno pertusis, atris; ascis clavato-subventricosis, 8-sporis; sporidiis elliptico-oblongis, bicellularibus, fuscis, 19-20  $\approx$  6; paraphysibus gelatinosis.

*Hab.* in thallo *Aspicilia* calcarea, *A. cinerea* et *A. gibbosa* in Germania et Britannia. — Sec. Arnold sporidia 15-18  $\mu$ . tantum longa sunt. — Var. **Sendtneri** Arnold *Lichenol. Ausfl.* XI, p. 37: peritheciis hemisphæricis, prominulis, atris; sporidiis utrinque obtusis, fuscis, bicellularibus, 15-18  $\approx$  6-8, octonis. In thallo *Polyblastia* *Sendtneri* in Germania.

7. **Tichothecium gemmiferum** (Tayl.) Körb. *Parerga Lichen.* p. 468, 2967 et Wint. in Hedw. 1886, pag. 16. *Verrucaria gemmifera* Taylor in Mackay, *Flora hibern.* II, p. 95, *Microthelia propinqua* Körb. *System.* p. 374. — Peritheciis sparsis, immersis, minutissimis, globosis, vertice umbilicato, demum collapsis, poro simplici pertusis, opace atris, 0,1 mm. diam.; ascis clavatis, crasse tunicatis, 8-sporis, 30-36  $\approx$  10-12; sporidiis ellipticis vel elliptico-oblongis, obtusis bicellularibus, plerumque haud vel perparum constrictis, fuscis, 8-12  $\approx$  3-4; paraphysibus coalitis.

*Hab.* in thallo crustaceo lichenum variorum in Germania.

8. **Tichothecium Complanatæ** (Arnold) Wint. in Hedw. 1886, p. 17, 2968 *Endococcus Complanatæ* Arnold *Lichenol. Ausfl.* in Tirol. V, p. 13. — Peritheciis minutissimis, punctiformibus, parum prominulis, atris; sporidiis octonis, oblongis, fusiformibus, utrinque plus minus attenuatis, rectis vel parum curvatis, bicellularibus, fuscis, 15-17  $\approx$  4-5; paraphysibus nullis.

*Hab.* in thallo *Lecanora* complanatæ in Germania.

9. **Tichothecium squamarioides** (Mudd) Wint. in Hedw. 1886, p. 17, 2969 *Sphæria squamarioides* Mudd *Manual of Brit. Lich.* p. 130, *Polycoccum squamarioides* Arnold *Lichenol. Fragm.* XVI, p. 29. — Peritheciis aggregatis, acervulos minutos formantibus, punctiformibus, atris, nucleo albo-cinereo; ascis elongato-oblongis vel oblongo-subclavatis, 8-sporis; paraphysibus indistincte diffuenti-

bus, mucosis; sporidiis obtuse fusiformibus vel fusiformibus, bicellularibus, interdum medio subconstrictis, obscure olivaceis v. sub-  
 atris, 8,5-11  $\approx$  3-4.

*Hab.* in thallo *Placodii gelidi* in Germania et Britannia.

II. Asci polyspori; sporidia uniseptata.

10. **Tichothecium nanellum** (Ohlert) Arnold, Lichenol. Fragm. XVI, <sup>2970</sup>  
 p. 27 in Flora 1874 et Wint. in Hedw. 1886, p. 17, *Endococcus nanellus* Ohlert Zusamm. Lich. Preuss. pag. 44. — Peritheciis nigro-fuscis, globosis, poro pertusis, 90-105  $\mu$ . diam., inter squamulas thallinas et tomentum *Stereocauli tomentosii* nascentibus; ascis clavatis, apice acuminatis, polysporis, 30  $\approx$  12; sporidiis oblongis, utrinque acutis, continuis vel bicellularibus, fuscis.

*Hab.* in *Stereocaulo tomentoso* in Germania.

11. **Tichothecium cerinarium** (Mudd) Berl. et Vogl. Add. Syll. p. 120, <sup>2971</sup>  
*Sphæria cerinaria* Mudd Man. of Brit. Lich. p. 136. — Peritheciis minutis, punctiformibus, semiimmersis, atris, solitariis, 10-12, disco apotheciorum insidentibus, nucleo mucoso, pallide farctis; paraphysibus nullis; ascis non visis; sporidiis numerosis, oblongis, uniseptatis, medio leniter constrictis, pallide luteis, 4  $\approx$  2.

*Hab.* parasitice in apotheciis *Callopismatis cerini* in Britannia.

12. **Tichothecium erraticum** Mass. Symmicta Lich. p. 94 et Wint. in <sup>2972</sup>  
 Hedw. 1886, p. 15, *Endococcus erraticus* Nyland. Lichenes Scandinaviæ p. 283. — Peritheciis semiimmersis, globosis, ostiolo indistincto, impresso, nitide atris, circ. 0,05 mm. diam.; ascis initio oblongis, subcylindrico-clavulatis, demum in parte inferiori ventricosis, fere obovoideis, polysporis; sporidiis late ellipticis v. subglobosis, medio haud constrictis, bicellularibus, fuscis, 3,5  $\approx$  2,5.

*Hab.* in thallo crustaceo *Lichenum variorum* in Germania.

13. **Tichothecium pygmæum** Körb. Parerga Lichen. p. 467 et Wint. <sup>2973</sup>  
 in Hedw. 1886, p. 15. — Peritheciis sparsis, totis v. pro maxima parte immersis, plerumque vertice parum impresso, pertuso tantum emergentibus, globosis, atris, subnitidis, 0,1 mm. diam.; ascis late clavatis, sæpe parum ventricosis, deorsum stipitiformibus, attenuatis, vertice late rotundatis, polysporis, 47-52  $\approx$  12-14; sporidiis inordinatis, ellipticis, interdum subconstrictis, bicellularibus, fuscis, 6-8  $\approx$  3-3,5.

*Hab.* in thallo *Lichenum variorum saxicolarum* in Germania.

— Var. **ventosicola** (Mudd) Wint. in Hedw. 1886, p. 15, *Microthe-*

*lia ventosicola* Mudd Manual. p. 307: vix diversa a forma normali; peritheciis semiimmersis; sporidiis 8-9  $\approx$  5. In *Hæmatomate ventoso* parasitans in Germania. — Var. **grandiuscula** Arnold Lichen. Ausfl. V, p. 523 et Wint. in Hedw. 1886, p. 15: peritheciis 2-usque fere 3-plo majoribus quam in forma normali; sporidiis 6-9  $\approx$  3-4. In speciebus variis Lecideæ, Lecanoræ etc. in Germania. — Var. **microcarpa** Arnold Lichen. Ausfl. XIV, p. 477: peritheciis, ascis sporidiisque minoribus; sporidiis 20 in quoqueasco, 5-6  $\approx$  2-3. In fructibus *Callopismatis aurantiaci* in Germania. — Var. **ecatonspora** Anzi Neosymb. p. 16 et Wint. in Hedw. 1886, p. 15: peritheciis numerosis, gregariis; sporidiis 9  $\approx$  3. Inter apothecia Rinodinæ *Bischoffii* in Germania.

III. Asci 4-8-spori; sporidia triseptata.

14. **Tichothecium leucomelarium** (Mudd) Berl. et Vogl. Add. Syll. 2974 p. 121, *Sphæria leucomelaria* Mudd Man. of Brit. Lich. p. 105. — Peritheciis minutis, semiimmersis, subsphæroideis; ostiolis leniter depressis, minutis vix prominulis, nucleo pallido; paraphysibus gracilibus, filiformibus; ascis elongato-cylindræis, medio inflatulis, 4-sporis; sporidiis oblongis vel obtuse fusiformibus, 3-septato-constrictis, primo pallide brunneis, dein obscure brunneis, 18  $\approx$  5.

*Hab.* parasitice in thallo *Borreræ leucomelæ* et *B. ciliaris* in Britannia.

15. **Tichothecium rimosicolum** (Leight.) Arnold in Flora 1861, p. 678, 2975 *Xenosphæria rimosicola* Körb. Parerg. Lich. p. 467. — Peritheciis numerosis, sparsis confertisve, plus minusve immersis, fere globosis, vertice applanato, ostiolo impresso pertusoque, 0,2-3 mm. diam.; ascis ovato-clavatis vel subventricosis, 8-sporis; paraphysibus indistinctis; sporidiis ellipticis vel elliptico-oblongis, plerumque utrinque acutatis, 4-cellularibus, ad septa subconstrictis, dilute fuscidulis, 13-16  $\approx$  5-6.

*Hab.* in thallo *Rhizocarpi subconcentrici*, *R. petræi*, *Siegortie calcareæ* variorumque lichenum aliorum in Germania.

16. **Tichothecium decolorans** Rehm Ascom. Diagnos. n. 490 et Wint. 2976 in Hedw. 1886, pag. 18, *Phæospora decolorans* Rehm Exsicc. n. 490. — Peritheciis gregariis, thalli superficie plus minusve dealbata, insidentibus, punctiformibus, conoideis, atris, glabris; ascis clavatis, 8-sporis, 60  $\approx$  8; sporidiis ellipticis, obtusis, 2-4-cellula-

ribus, cellulis mediis guttulis magnis præditis, ad septa constrictis, rectis, 12 = 4; paraphysibus nullis.

*Hab.* in thallo *Biatoræ decolorantis* in Germania.

17. **Tichothecium peregrinum** (Flotow) Wint. in Hedw. 1886, p. 18, 2977

*Verrucaria peregrina* Flotow in Botan. Zeitg. 1885, n. 8, *Phæospora peregrina* Arnold in Lichenol. Ausfl. XX, p. 355. — Peritheciis punctiformibus, atris, thallo immersis, vertice tantum prominulis; ascis oblongis, 8-sporis; sporidiis elongato-oblongis, 4-cellularibus, ad septa parum constrictis, sæpe guttulis 4-præditis, fuscis, 15 = 5; paraphysibus nullis.

*Hab.* in thallo *Lecanoræ Bockii* in Germania.

**SOROTHELIA** Körb. Parerga Lichenol. p. 471 et Wint. in Hedwigia 1886, pag. 10 (Etym. a *soros* et *thele* papilla). — Perithecia aggregata, soros rotundatos vel irregulares, maculiformes formantia, superficialia, carbonacea, atra; asci 8-spori, paraphysibus obvallati; sporidia didyma, fusca.

1. **Sorothelia confluens** Körber. Par. Lich. p. 471, Wint. in Hedw. 2978

1886, p. 10. — Peritheciis minutis, sessilibus, globosis v. hemisphæricis, aterrimis, conspurcatis, mox lata basi in soros irregulares confluentibus indeque deformibus; sporidiis in ascis cylindraceo-clavatis, octonis, mediocribus, soleæformibus, biguttulatis, 15-25 = 5-6, fuscis.

*Hab.* in thallo *Phlyctidis argenæ* in Silesia.

**DIDYMOSPHÆRIA** Fuck. — Sacc. Syll. I, p. 701.

1. *Herbicolæ.*

1. **Didymosphæria conoidella** Sacc. et Berl. Misc. Myc. II, n. 26. — 2979

Peritheciis laxè gregariis, epidermide secedente nudatis e globoso conicis, atris, sæpe concentricè, obsolete plicatis,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., ostiolo acutiusculo; ascis clavulatis, modice stipitatis, paraphysatis, octosporis, 80-90 = 12; sporidiis distichis, ellipsoideo-oblongis, constricto-1-septatis, 15-18 = 6-7, fuligineis.

*Hab.* in ramulis emortuis *Capparidis sarmentosæ*, Teviot Australiæ. — A *Did. conoidea* sporidiis duplo fere longioribus mox distinguenda.

2. **Didymosphæria subconoidea** Bomm. Rouss. Sacc. sp. nov. — Pe- 2980

peritheciis subcutaneis, dein erumpentibus, 150-170  $\mu$ . diam., subcarbonaceis, ostiolo teretiusculo; ascis cylindraceis, 75-100 = 6-7, octosporis; paraphysibus tortuosis, simplicibus vel ramosis, crebre



septatis, 3,5-4,5  $\mu$ . cr., ascum æquantibus; sporidiis monostichis, subfusoides, olivaceis, 1-septatis, constrictis, 4-guttatis, olivaceis, 9-13  $\approx$  3,5, loculo sup. crassiore.

*Hab.* in caulibus emortuis *Digitalis purpureæ*, Poix Gallia. — *D. conoideæ* subaffinis.

3. **Didymosphæria Lycii** (Kalchbr.) Sacc. *Amphisphæria Lycii* Kalchbr. 2981

Szep. Gomb. II, p. 273, tab. V, f. I, C. — Peritheciis gregariis, epidermide tectis eamque infantibus, membranaceis, globosis deplatis, astomis, dein poro simplici vertice lacerato dehiscentibus; ascis tenellis, facile diffluentibus, cylindræis, paraphysatis, octosporis; sporidiis oblique monostichis, oblongo-ellipsoideis, didymo-constrictis, fuligineis. — St. conid: *Sporodesmium Lycii* Niessl. Pycnidium: *Hendersonia Lycii* Hazs.

*Hab.* in ramulis *Lycii* in Banatu Hungariæ.

4. **Didymosphæria massarioides** Sacc. et Brunaud Mich. II, pag. 592 2982

— Peritheciis laxè gregariis, subinde duobus, confluentibus, globoso-depressis,  $\frac{1}{8}$ - $\frac{3}{4}$  mm. diam., cortice tectis; ostiolo obtuso crassiusculo vix erumpente; contextu peritheci crassiusculo; ascis cylindræis, apice rotundatis, brevè stipitatis, 120  $\approx$  10, copiose filiformi-paraphysatis, octosporis; sporidiis, oblique monostichis, ovato-oblongis, utrinque obtusiusculis, 20  $\approx$  8, constricto-1-septatis, flavo-ochraceis, dein fuligineis, sæpe 2-guttatis.

*Hab.* in ramulis corticatis *Lycii barbari*, Saintes Gallia (BRUNAUD).

5. **Didymosphæria fenestrans** (Duby) Winter in Hedwigia 1886, p. 24, Huc sec. cl. Winter ducendæ sunt *Didymella Epilobii*, *Gnomonia Epilobii* et *Gnomonia fenestrans*, Syll. I, p. 556, 561, 562.

6. **Didymosphæria innumerabilis** Winter Grevill. XV, p. 88. — Peri- 2983

theciis in maculis magnis arescendo-candicantibus v. pallide fuligineis, determinatis, angulato-rotundatis seu irregularibus, margine luteolo angusto et area fuscidula latiori cinctis, usque 12 mm. latis gregariis, hypophyllis sæpe confertis v. aggregatis, subsuperficialibus, subglobosis, poro simplici pertusis, membranaceis, atris, 98-110  $\mu$ . diam., ascis e basi latiori ovata sursum attenuatis sessilibus, 8-sporis, 35-40  $\approx$  11,5-12,5; paraphysibus tenuissimis, filiformibus plerumque mucosis; sporidiis conglobatis, bacillari-subclavatis, interdum parum curvatis, medio septatis leniterque constrictis, plerumque utrinque, semper autem deorsum subattenuatis, rotundatis, hyalinis, loculo superiori parum latiori, 16-18  $\approx$  4,5.

*Hab.* in foliis vivis Passifloræ cujusdam in prov. S. Catharina Brasiliæ (ULE).

7. **Didymosphæria Matthiolæ** (Fuck.) Berl. et Vogl. Add. Syll. p. 114, 2984  
*Pleospora* Fuck. in Reis. nach Nordpolarm. III, et Oud. Contr. Fl. Myc. Now. Seml. p. 152, t. II, fig. 7. — Peritheciis sparsis, punctiformibus, epidermide tectis, atris; ostiolo conico, obtuso, prominulo, atro; ascis maturis ovatis seu subglobosis,  $30 \approx 24$ , immaturis basi contractis, superiore parte ovato-ventricosis,  $55 \approx 24$ , octosporis; sporidiis stipatis, utrinque obtusis, antice parum obtusioribus crassioribusque, rectis, uniseptatis,  $20 \approx 8$ , demum pallide fuscis.

*Hab.* in foliis Matthiolæ nudicaulis, Nowaja Semlja.

8. **Didymosphæria anomala** (E. et E.) Sacc. *Leptosphæria* E. et C. 2985  
 Journ. Myc. 1887 p. 117. — Peritheciis gregariis, membranaceis, laxe parenchymaticis,  $\frac{1}{3}$  mm. diam., nigris, levibus, subsphæricis, demum supra subcollabentibus, initio epidermide tectis, dein erumpentibus; ascis oblongo-cylindræis, circ.  $100 \approx 20$ , subsessilibus; paraphysibus filiformibus, evanescentibus; sporidiis distichis, latis, oblongo-fusoideis, 1-septatis, inæquilateris et subincurvis, pallide stramineis, constrictis  $30-35 \approx 10-12$ , utrisque obtusis.

*Hab.* in caulibus emortuis, sociâ *Cylindrocolla diffuente* in Scofield, Utah Amer. bor. (S. J. HARKNESS).

## II. Arboricolæ.

9. **Didymosphæria populina** Vuill. Malad. Peupl. p. 3. — Peritheciis 2986  
 peridermio innatis, sphæricis,  $\frac{1}{5}$  mm. d., membranaceis, apice pertusis non papillatis; ascis elongatis,  $85 \approx 28$ , brevi pedicellatis; paraphysibus gracilibus ramosis; sporidiis inæqualiter distichis, didymis, profunde constrictis,  $22 \approx 14$ , pallide brunneis, loculo sup. majore.

*Hab.* ad ramulos Populi pyramidalis, Lorraine. — Adsunt perithecia pycnidica subepidermica (*Phoma populina* sp. nov.) sporulis ellipsoideis, hyalinis  $5-6 \approx 2-2,5$ , 1-guttatis.

10. **Didymosphæria nana** Rost. Fungi Groenl. p. 557. — Peritheciis 2987  
 gregariis, minutis; ascis cylindræo-clavatis,  $64 \approx 12$ ; sporidiis distichis, oblongis, 1-septatis, fuscis,  $25 \approx 7-8$ .

*Hab.* in foliis siccis Betulæ nanæ, Fiskefjord Groenlandiæ.

11. **Didymosphæria denudata** Ell. et Gall. Journ. Myc. 1890, p. 32. 2988  
 — Peritheciis sparsis, ovatis, suberumpentibus, minutis,  $\frac{1}{4}$  mm. d., vertice emergente ruguloso, nigro, papillato, contextu densiu-

scule membranaceo; ascis cylindracois, 50  $\approx$  7, in basim stipitifor-  
mem abrupte contractis; sporidiis monostichis, ellipsoideis, 1-septa-  
tis, brunneis, 6-7  $\approx$  4.

*Hab.* in cortice epidermide orbato ramorum *Quercus* emortuæ  
Newfield N. J. Amer. bor. — A *Did. Cupula* peritheciis haud colla-  
bentibus, sporidiis minoribus etc. diversa.

12. **Didymosphæria accedens** Sacc. in Fairm. Contr. Myc. West. N. 2989  
Y. p. 48, t. IV, f. 12. — Peritheciis gregariis, tectis,  $\frac{1}{4}$ - $\frac{1}{3}$  mm.  
lat., ostiolo breviter papillato, erumpente, nucleo primo albo; ascis  
tereti-clavatis, 120  $\approx$  10; paraphysibus obsoletis; sporidiis senis  
octonisve monostichis, ellipsoideis, utrinque rotundatis, 1-septatis,  
leviter constrictis, 20-22  $\approx$  11, fuligineis.

*Hab.* in ramis emortuis arborum quarumdam (*Fraxini*?), Lyn-  
donville N. Y. Amer. bor. — Affinis *D. Rhamni* et *D. incarce-*  
*rata*, ostiolo ascisque diversa.

13. **Didymosphæria buxina** Passer. Diagn. Fung. Nov. IV, p. 4. — Peri- 2990  
theciis sparsis, tectis, per corticem fissum erumpentibus, atris; ascis  
paraphysatis, clavatis, 8-sporis, 60-75  $\approx$  15-17; sporidiis distichis  
v. oblique monostichis, ovato-oblongis, medio septatis, vehementer  
constrictis, utrinque subacutis, loculis inæqualibus ample guttulatis,  
primo luteis, tandem fuscis, 17,5-20  $\approx$  7,5-8.

*Hab.* in ramulis emortuis *Buxi* sempervirentis, Vigheffio,  
pr. Parma Ital.

14. **Didymosphæria producta** Sacc. et Paol. in Sacc. Myc. Sib. p. 13, 2991  
f. 10. — Peritheciis sparsis gregariisve, initio epidermide velatis,  
mox subsuperficialibus, e globoso lageniformibus, atris,  $\frac{1}{3}$  mm.  
diam., in ostiolum perithecium subæquans v. brevius, cylindraco-  
conoideum, apice obtusiusculum productis; ascis fusoido-clavatis,  
utrinque obtusiusculis, subsessilibus, 65-70  $\approx$  9-11; paraphysibus  
filiformibus, copiose obvallatis; sporidiis oblongo-fusoidis, inæqui-  
lateralibus, utrinque obtusulis, medio constricto-uniseptatis, dilute  
olivaceis, 4-guttatis, 22-26  $\approx$  5-6.

*Hab.* in caule *Loniceræ* cœruleæ in silvis pr. fluv. Cha-  
byk Sibiria (MARTIANOFF). — Ad genus *Rhynchostoma* vergit.

15. **Didymosphæria atro-grisea** Cooke et Peck, Grevill. XVII, p. 92. — 2992  
Peritheciis sparsis, convexis, cortice immersis, cuticula grisea te-  
ctis, demum ostiolo atro erumpentibus; ascis cylindracois 8-sporis;  
sporidiis monostichis, ellipticis, uniseptatis, fuscis 15  $\approx$  8.

*Hab.* in cortice *Quercus* albæ, New York (PECK) et Pough-  
keepsie Amer. bor. (GERARD) — « An *Amphisphæria*? ».

16. **Didymosphæria scabella** (Quél.) Berl. et Vogl. Add. Syll. p. 342, 2993  
*Sphæria* Quél. 13 suppl. p. 9, t. VIII, f. 24. — Peritheciis corneis, lenticularibus, 400-500  $\mu$ . diam., mammiformibus, granulosus v. vix muriculatis, nigris; ostiolo conoideo, umbilicato, vix prominulo; sporidiis lanceolatis, 30  $\mu$ . longis.

*Hab.* in ramis denudatis putrescentibus *Hederæ*, Jura.

17. **Didymosphæria endoleuca** Passer. Diagn. F. N. III, n. 15. — Peri- 2994  
 theciis solitariis, sparsis, atris, sub epidermide pustulatim inflata, integra v. vix fissa nidulantibus, nucleo candido; ascis elongato-clavatis, basi breviter attenuato-stipitatis, paraphysatis, 8-sporis 100-125  $\approx$  15; sporidiis amygdaloideis v. ellipticis, medio septatis, non constrictis, obscure fuscis, 20-27,5  $\approx$  8-10.

*Hab.* in ramis siccis *Cercidis Siliquastris* sociâ *Diplodia Siliquastris* in Horto botanico Parmensi Ital. (PASSERINI).

18. **Didymosphæria Ceanothi** (Cooke et Hark.) Berl. et Vogl. Add. Syll. 2995  
 p. 136, *Sphæria* Cooke et Harkn. in *Grevillea* XIII, p. 19. — Tecta, sparsa; peritheciis globoso-applanatis, atris, breviter papillatis; ascis amplis, clavatis, octosporis; sporidiis ellipticis, uniseptatis, medio constrictis, atro-fuscis, 35  $\approx$  15.

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

19. **Didymosphæria Genistæ** Fuck. — Sacc. Syll. I. p. 705, Winter  
 in *Hedwigia* 1886, p. 23. — Asci 43-48  $\approx$  12; sporidia 14-16  $\approx$  4-5.  
 20. **Didymosphæria sarmenti** (Cooke et Hark.) Berl. et Vogl. Add. Syll. 2996  
 p. 113, *Sphæria* Cooke et Harkness in *Grevillea* XIII, p. 19. — Sparsa; peritheciis tectis, subglobosis, atris, levibus, demum applanatis; ostiolo brevi punctiformi; ascis cylindrico-clavatis; sporidiis ellipticis, uniseptatis, medio non constrictis, fuscis, 12  $\approx$  5,

*Hab.* in sarmentis *Vitis* in California (HARKNESS).

21. **Didymosphæria Persicæ** Pass. in *Brun. Champ. Saint.* V. p. 3. — 2997  
 Peritheciis sparsis, conicis, nigris, semper tectis, ostiolo punctiformi, corticem vix perforante; ascis cylindræis elongatis, 115-125  $\approx$  8, paraphysatis; sporidiis 1-stichis, oblongo-ellipsoideis, medio 1-septatis, non v. parum constrictis, brunneis, 17,5  $\approx$  5-6.

*Hab.* in ramis emortuis *Persicæ vulgaris*, *Saintes Galliæ*.

22. **Didymosphæria rubicola** Berl. Pug. F. Fior. p. 11 t. II, f. 5. — 2998  
 Peritheciis dense sparsis v. subgregariis, epidermide non nigrificata tectis, ostiolo minute eam perforante prominulis, globosis globosove-conoideis, intus nucleo primo candido, dein fusco-atro farctis, 250-300  $\mu$ . diam., carbonaceo-membranaceis; ascis cylindræis, rectis v. curvulis, subsessilibus, crasse tunicatis, paraphysibus {de-

mum coalitis cinctis, 100-120  $\approx$  14-16; sporidiis octonis, irregulariter monostichis, ovoideis, utrinque rotundatis, raro acutiusculis, 1-septatis, non v. lenissime constrictis, 20-23  $\approx$  10-12, rufo-fuligineis.

*Hab.* in sarmentis emortuis Rubi fruticosi pr. Firenze Italiæ. *D. permutatæ* et *D. gregaricæ* affinis.

23. **Didymosphæria Hakeæ** Winter. Contr. Fl. Myc. Lus. V, p. 14. — Pe. 2999  
 peritheciis gregariis, sine macula, immersis, depresso-globosis, ostiolo punctiformi, prominulo instructis, membranaceis, fusco-atris, 0,25 mm. diam.; ascis oblongo-cylindræis, utrinque attenuatis, in stipitem brevem productis, 8-sporis, 55-75  $\approx$  9-11; sporidiis distichis, oblongis, supra medium uniseptatis et profunde constrictis, inæquilateralibus, utrinque acuminatis, binucleatis, fuligineis 15-17  $\approx$  4,5-5; paraphysibus filiformibus.

*Hab.* ad Hakeæ salignæ folia arida rarissime prope Coimbra Lusitaniæ (MOLLER).

24. **Didymosphæria Banksiæ** Cooke Grev. XIX, p. 90. — Epiphylla; 3000  
 maculis orbicularibus, pallidis, margine nebuloso-brunneo; peritheciis parcis, centralibus, nigris, cuticula diffracta eruptentibus, subglobosis, papillatis; ascis clavatis, sessilibus, octosporis; sporidiis biseriatis, 1-septatis, loculo sup. subgloboso, infero angustiore, brunneis, 10  $\approx$  5.

*Hab.* in foliis vivis Banksiæ, Victoria Australiæ (MARTIN).

25. **Didymosphæria phyllogena** Winter in Journ. of Myc. 1885, pag. 3001  
 121. — Peritheciis in macula rotundato-angulata vel irregulari, fusca, lineâ atrâ cincta, determinata, usque 8 mm. diam., hypophylla immersis, epidermidem perforantibus, punctiformibus, tenuissime membranaceis, 100  $\mu$ . diam.; ascis clavatis, brevissime pedicellatis, 8-sporis, 50-70  $\approx$  9-11; sporidiis distichis (rarius submonostichis), oblongis, inæquilateralibus, utrinque attenuatis, bicellularibus, ad septum constrictis, fuscidulis, 14-16  $\approx$  5; paraphysibus crassis, cylindræis, septatis.

*Hab.* ad folia delapsa Liriodendri Tulipiferæ, Missouri.

26. **Didymosphæria Dryadis** (Fuck.) Berl. et Vogl. Add. Syll. p. 114, 3002  
*Pleospora* Fuck. Die 2.<sup>o</sup> Deutsche Nordpolarf. II, 93. Oudem. Contr. Fl. Myc. Now. Seml. p. 152, t. II, fig. 6. — Peritheciis in foliorum aridorum nondum delapsorum pagina superiori sparsis, punctiformibus, globoso-conicis, atris, demum subliberis, ostiolis perforatis; ascis oblongo-ovatis, oblique stipitatis, tunica crassa prædita, octosporis, 88  $\approx$  32; sporidiis subdistichis, oblongis, utrinque

obtusis, uniseptatis, ad septum constrictis, loculis uniguttulatis, 30-32  $\approx$  12, primo hyalinis, demum flavo-fuscis.

*Hab.* in foliis exsiccatis Dryadis octopetalæ, Nowaja Semlja Maris glacialis.

27. **Didymosphæria circinata** (Fuck.) Wint. in Hedwigia 1886, p. 23.

*Gnomoniella? circinata* Sacc. Syll. I, pag. 416. — Sporidia conglobata, oblonga, bicellularia, viridula, 9-10  $\approx$  3.

28. **Didymosphæria circinans** Harkn. New Calif. Fungi p. 24. — 3003

Hypophylla; peritheciis gregariis in maculis circularibus, 1-6 mm. diam., tectis, circa ostiola matricem maculantibus; ascis octosporis, cylindræis, sessilibus, 66  $\approx$  6, paraphysibus filiformibus cinctis; sporidiis ovoideis vel oblongis, uniseptatis, leniter constrictis, olivaceo-brunneis, 5-7  $\approx$  3-4.

*Hab.* in foliis Eucalypti Globuli in California.

29. **Didymosphæria Cupula** Ellis Amer. Nat. 1883, p. 313, *Sphæria Cu-* 3004

*pula* Ell. et Ev. in Bull. bot. Club. 1883, p. 90. — Peritheciis sparsis innatis, epidermide nigrescente, ostiolo papilliformi excepto, tectis, primum convexo-hemisphæricis dein siccitate collapsis; ascis 75  $\approx$  7; sporidiis ellipsoideis, brunneis, uniseptatis, monostichis, 9,5-11,5  $\approx$  4,5-5.

*Hab.* in foliis adhuc pendulis et in ramulis quercinis, Newfield Amer. bor.

30. **Didymosphæria euryasca** Ell. et Gall. Journ. Myc. 1889 p. 67. 3005

— Peritheciis sparsis, partim erumpentibus, partim epidermide tectis, minutis, 80-100  $\mu$ . diam. supra perforatis...?; ascis inæquilateraliter ovoideis, sessilibus, 35-40  $\approx$  12-15; paraphysibus; sporidiis 2-3-stichis, ovato-oblongis, 1-septatis, constrictis, utrinque rotundatis, brunneis, 12-15  $\approx$  3,5-5.

*Hab.* in foliis emortuis Pini Murrayanæ, in culmine Mt. Helena, Lewis and Clarke County, Montana Amer. bor.

### III. In Monocotyledoneis.

31. **Didymosphæria serrulata** E. et M. in Journ. of Bot. 1885, p. 99. 3006

— Maculis dealbatis; peritheciis sparsis vel gregariis, epidermide nigrescente, demum ostiolo brevi, obtuso, erumpente perforata, tectis, lenticularibus  $\frac{1}{4}$ - $\frac{1}{3}$  mm. diam.; ascis cylindricis, paraphysibus filiformibus obvallatis, 100-112  $\approx$  10-12; sporidiis monostichis, hyalinis, primum 3-4-nucleatis dein brunneis et 1-septatis, 18-20  $\approx$  5-6, initio muco obvolutis.

*Hab.* in petiolis *Sabal*is serrulatæ, maculas pallidas efformans in Amer. bor.

32. **Didymosphæria longipes** Trabut in Add. p. 411. — Peritheciis sparsis, epidermide circa ostiolum nigrescente tectis, prominulis, globoso-conoideis, atris, nitentibus, majusculis,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., vertice albo-punctatis, poro pertusis; ascis cylindraceis, longissime pedicellatis, apice rotundatis foveolatisque, pedicello subinde curvulo vel flexuoso, 80-100  $\mu$ . longo, paraphysatis, octosporis, 180-200  $\simeq$  12; sporidiis recte vel oblique monostichis, subinde transverse dispositis, ovoideis, septo constrictis, loculo superiore sæpe crassiore rotundatoque, inferiore vero subinde minore, subconoideo, fuliginis, 14-18  $\simeq$  8-9.

*Hab.* in *Agave americana* in Algeria (TRABUT).

33. **Didymosphæria Spatharum** Wint. in Hedwigia 1885. — Peritheciis sparsis, immersis, depresso-globosis, ostiolo late conoideo, obtuso præditis, erumpentibus, atris, membranaceis, matricem tegentem parum nigrificantibus, 240-270  $\mu$ . latis; ascis cylindraceis, deorsum in stipitem brevem attenuatis, 8-sporis, 45-52  $\simeq$  7; sporidiis oblique mono-vel partim subdistichis, oblongis, utrinque rotundatis, medio vel supra medium uniseptatis, non vel perparum constrictis, fuliginis, 9-10  $\simeq$  3,5-4; paraphysibus gracilibus, filiformibus.

*Hab.* in spathis aridis *Bobartia* spathaceæ, in monte Tabulari Promont. Bon. Spei (MAC-OWAN).

34. **Didymosphæria Typhæ** Peck 38 Rep. Stat. Mus. p. 104. — Peritheciis minutis, punctiformibus, subglobosis, epidermide ostiolis minute papillatis perforata tectis; ascis cylindraceis, 62-85  $\simeq$  8-10; sporidiis oblongis vel ellipticis, monostichis uniseptatis, non vel vix septo constrictis, 10-15  $\simeq$  5-6, coloratis; paraphysibus filiformibus.

*Hab.* ad basim foliorum emortuorum *Typhæ latifolia*, Guilderland Amer. bor.

35. **Didymosphæria typhina** Pass. in Brun. Nouv. Fragm. p. 29 (*D. Typhæ*). — Peritheciis sparsis, epidermide non nigrificata tectis, lenticularibus, nigris, ostiolo v. prominulo v. depresso; ascis cylindraceis basi subattenuatis 8-sporis, 60-65  $\simeq$  5-6, copiose paraphysatis; sporidiis monostichis, medio 1-septatis, castaneo-brunneis, 7-8  $\simeq$  5.

*Hab.* in caulibus emortuis *Typhæ angustifolia* in Rochefort pr. Saintes Galliæ. — « An diversa a præcedente? »

36. **Didymosphæria crastophila** Niessl in Rehm Ascom. n. 644, Hedw. 3011

1883, pag. 84. — Peritheciis mediocribus, dispersis, interdum subgregariis et confluentibus, strato firmo, clypeiformi, fusco-nigro, nitido, tectis, non erumpentibus, fere globosis, coriaceis; ascis cylindræis, 8-sporis,  $90 \approx 7$ ; sporidiis obtuse ellipticis medio sæpe subconstrictis, 2-cellularibus, utraque cellula nucleo 1 parvulo instructis, rarius cellulis inæqualibus, fuscidulis,  $9 \approx 5$  monostichis; paraphysibus tenerrimis.

*Hab.* ad culmos siccos Poæ nemoralis prope Brünn Moraviae (NIESSL).

37. **Didymosphæria Andropogonis** Ell. et Lang. Proc. Phil. 1890 p. 235. 3012

— Stromate e culmi substantia immutata sed pallidiore formato, 3-4 cm. long., 1 cm. lat., linea virescenti-nigra, profunde penetrante cincto, æqualiter ardosiacò-nigro; peritheciis sparsis, subglobosis,  $\frac{1}{2}$ - $\frac{3}{4}$ , mm. diam., ostiolo erumpente et convexo-discoideo excepto, omnino immersis; ascis cylindræis circ.  $110 \approx 8-10$ ; paraphysibus validis sed evanescentibus; sporidiis 1-stichis, oblongo-cylindræis utrinque rotundatis, subincurvis, 1-septatis hyalinis dein brunneis,  $18-22 \approx 4,5-5,5$ .

*Hab.* in culmis Andropogonis muricati St. Martinsville Louisiana Amer. bor. (LANGLOIS).

38. **Didymosphæria pardalina** Ell. et Ev. in Journ. of Myc. 1886, 3013

p. 102. — Peritheciis 4-6 gregariis, maculis suborbicularibus, vel ellipsoideis, atris, 2-4 mm. diam., insidentibus vel confluentibus, matrice omnino immersis,  $\frac{1}{2}$  mm. diam., coriaceis, ostiolo minuto, punctiformi donatis, epidermidem non elevantibus; ascis cylindræis,  $150-200 \approx 12-15$ ; sporidiis monostichis, oblongo-cylindræis, olivaceo-brunneis, 1-septato-constrictis, vix curvis, utrinque obtusis,  $22-30 \approx 8-10$ .

*Hab.* in culmis emortuis Spartinae polystachyæ in America boreali (LANGLOIS).

39. **Didymosphæria arundinicola** Bizz. Fung. Ven. novi v. crit. p. 2, 3014

t. II, f. 2. — Peritheciis minutissimis, subsuperficialibus, ostiolatis; ascis oblongo-clavatis,  $100-110 \approx 21-23$ , octosporis; sporidiis bilocularibus, non vel vix constrictis, oblongo-ellipsoideis, utrinque hyalino-apiculatis,  $26-28 \approx 12$  (sine apiculo), initio hyalinis, biguttatis, dein fuligineis.

*Hab.* in culmis exsiccatis et putridis Arundinis Donacis in Horto bot. patavino Ital. bor.

40. **Didymosphæria arenaria** Mout. Not. Ascom. p. 75. — Peritheciis 3015

sparsis, immersis, membranaceis,  $\frac{1}{4}$  mm. diam., minute papillatis,



matrice circa ostiolum fuscescente; ascis tereti-clavatis, apice late rotundatis, 8-sporis, 140-150  $\approx$  27-30; paraphysibus filiformibus septatis ascos superantibus; sporidiis 1-2-seriatis, obovato-oblongis, medio septatis leviterque constrictis, pallide fuliginosis, pellucidis, 28-30  $\approx$  12-14.

*Hab.* in culmis *Ammophilæ arenariæ* pr. Hamburg Germaniæ, sociâ *Leptosph. Ammophilæ* (in Rehm Ascom. n. 691).

41. **Didymosphæria lusitanica** (Niessl) Berl. et Vogl. Add. Syll. p. 115, 3016

*Phorcys lusitanica* Niessl Contr. Fl. Myc. Lus. p. 15. — Peritheciis sparsis, omnino immersis, clypeatis, majusculis, 0,4-0,5 mm. diam., globosis, atris, ostiolo minuto; ascis elongato-cylindricis, pedicellatis, membrana interna apice valde incrassata, 8-sporis, 120-140  $\approx$  10-12; sporidiis monostichis, oblongis, utrinque rotundatis, plerumque curvatis vel quasi medio infractis, uniseptatis et valde constrictis, guttulis binis, atro-fuscis, 18-22  $\approx$  8-10; paraphysibus tenuibus, apice ramosis; ascis sporidiisque ut in *Delitschia*, sed peritheciis profunde innatis, tectis.

*Hab.* in culmis aridis *Donacis arundinaceæ*, Galla prope Figueira da Foz Lusitaniæ (MOLLER).

42. **Didymosphæria rhytidosperma** Speg. Fungi Guar. Pug. I, n. 223. 3017

— Peritheciis sparsis v. laxissime subseriatis, epidermide areolatim nigrefacta tectis eique arcte adnatis, prominulis, hemisphæricolenticularibus, majusculis, 1-1,2 mm. diam., ostiolo minuto, umbonatululo, vix epidermidem perforante, non exserto donatis, crassiuscule membranaceo-carnosulis, sordide albescenti-ceraceis, circa ostiolum fuscescentibus sæpeque coriacellis, contextu prosenchymatico-fibrosulo, subradiante, parum distincto, albo-fuscescente; ascis cylindræis, apice obtusissime rotundatis, postice breve attenuato-stipitatis, 120-130  $\approx$  7-8, jodii ope nulla, paraphysibus gracillimis, obscure septulatis obvallatis, 8-sporis; sporidiis recte monostichis, utrinque acute rotundatis, rectis, medio constrictis; loculis æqualibus, non v. 1-2 crasse guttulatibus, episporio pellucido, pulchre fuligineo, longitudinaliter dense rugoso-striatis, rugis simplicibus, rectis v. vix helicoideis.

*Hab.* ad culmos dejectos emortuos *Bambusaceæ* cujusdam in dumetis prope Carapegua Bras. — Species pulcherrima ac distinctissima, characteribus perithecii subnectriacei, facile novum genus inter *Nectriaceas* constituens.

## IV. In Acotylodoneis.

43. **Didymosphæria flicina** Winter Grevill. XV, p. 88. — Peritheciis 3018  
gregariis, in foliis plerumque dealbatis epiphyllis, immersis, glo-  
bosis, poro simplici pertusis, vertice late papillæformi tantum pro-  
minulis atris, coriaceis, 80-90  $\mu$ . diam.; ascis fasciculatis, oblongis,  
utrinque attenuatis, substipitatis, 8-sporis, 44-48  $\approx$  12,5; paraphy-  
sibus parum distinctis, filiformibus, plerumque mucosis; sporidiis  
di-tristichis, bacilliformibus cylindrico-subclavatis, utrinque rotun-  
datis, medio septatis, haud constrictis, hyalinis, 14-16  $\approx$  3.  
*Hab.* ad folia subviva *Gymnogrammes Colomelani* in Bra-  
silia (ULE). — Si sporidia constanter hyalina, potius *Didymellæ*  
species.
44. **Didymosphæria pteridina** Sacc., *Didymosphærella flicina* Cooke 3019  
in Grevill. XIX, p. 3. — Sparsa, tecta; peritheciis globosis, atris,  
minutis, ostioli papillatis; ascis cylindræis; sporidiis uniseriatis,  
ovalibus, medio septatis, nec constrictis, fuscis, 8  $\approx$  5.  
*Hab.* in caulibus *Pteridis*, New Zealand (COLENSO).
45. **Didymosphæria microstictica** (Leighton) Winter in Hedw. 1886, 3020  
p. 25, *Verrucaria microstictica* Leight. Lichen. Flora of Great-  
Britain. Edit. II, p. 493. — Peritheciis minutissimis, plus minus-  
ve immersis, globosis, vertice plano-convexo, pertuso, fusco-atris;  
ascis cylindricis, breve stipitatis, 8-sporis, 78-88  $\approx$  10; sporidiis  
mono-vel subdistichis, elliptico-oblongis, bicellularibus, medio con-  
strictis, atris, opacis, 14  $\approx$  7; paraphysibus numerosis, filiformibus,  
subramosis.  
*Hab.* in thallo *Acarosporæ fuscatae* et *A. cervinæ* in  
Germania et Britannia.
46. **Didymosphæria (?) Sauteri** (Körber) Winter in Hedw. 1886, p. 25, 3021  
*Polycoccum Sauteri* Körber Parerga pag. 470. — Peritheciis mi-  
nutissimis, conferte stipatis, maculas subatras formantibus, demum  
sæpe confluentibus, semiimmersis, globosis, ostiolo umbonato fusco-  
atris; ascis cylindræis, substipitatis, 8-sporis, 100  $\approx$  15-16; spo-  
ridiis monostichis, dacryoideis, cellula superiori multo latiori lon-  
giorique, fuscis, 16-19  $\approx$  9-10,5.  
*Hab.* in *Stereocaulo condensato* et *S. alpino* atque in  
*Lecidea fumosa* in Germania.
47. **Didymosphæria Bryonthæ** (Arnold) Winter in Hedw. 1886, p. 25, 3022  
*Endococcus Bryonthæ* Arnold in Lichenol. Fragment. XVI, p. 26,  
tab. II, fig. 15, in Flora 1874. — Peritheciis gregariis, minutis,

subglobosis, valde convexis, prominulis, vertice pertusis; ascis fere cylindraceutis (sec. icon. clavatis, deorsum stipitiformi-attenuatis), 8-sporis; paraphysibus distinctis, tenuibus capillaribus; sporidiis inordinatis, oblongis vel clavatis, bicellularibus, haud vel parum constrictis, pallide fuscidulis, 12-16  $\approx$  4-5.

*Hab.* in disco apotheciorum *Lecanoræ subfuscæ* var. *bryonthæ* in Germania.

48. **Didymosphæria Sporastatiæ** (Anzi) Winter in Hedw. 1886, p. 25, 3023

*Polycoccum Sporastatiæ* Arnold in Flora 1874, p. 144, tab. II, fig. 9. *Tichothecium Sporastatiæ* Anzi Neosymbolæ pag. 17. — Peritheciis sparsis, fere omnino immersis, globosis, vertice tantum parum convexo pertusoque prominulis, atris; ascis oblongis, 17  $\mu$ . crassis; sporidiis distichis, oblongo-clavatis, inæqualiter didymis, medio parum constrictis, fuscis, 17-23  $\approx$  7-8.

*Hab.* in thallo *Sporastatiæ cinereæ* in Germania.

**MASSARIELLA** Speg. — Syll. I, p. 716.

1. **Massariella vibratilis** (Fuck.) Sacc. — Syll. I, pag. 716. — var. 3024

**Mespili** Pass. in Brun. Nouv. Fragm. p. 29. — Peritheciis carbonaceis, cortice tectis, erumpentibus, ostiolo papillato; ascis cylindraceutis, paraphysibus brevibus cinctis; sporidiis ovoideis, medio obscure septatis, strato tenui, hyalino involutis, 25  $\approx$  12.

*Hab.* in ramis emortuis *Mespili germanicæ*, Pessines pr. Saintes Galliæ.

2. **Massariella scoriadea** (Fr.) Cooke Grev. XVII, p. 93. *Anthostoma scoriadeum* (Fr.) Sacc. Syll. 1127. — Sporidia elliptica, uniseptata, 70  $\approx$  23, loculo superiore majusculo, medio constricta, episporio crasso, hyalino. Ex Cookei autopsia Scler. Suec. n. 314.

3. **Massariella seriata** Cooke Grevill. XVII, pag. 92. — Peritheciis 3025

depressiusculis, majusculis, seriato-dispositis, peridermio tectis, demum fissis; ascis clavatis; sporidiis ellipticis, 60  $\approx$  18-20, 1-septatis, medio constrictis, fuscis, loculis æqualibus, episporio crasso, hyalino obvolutis.

*Hab.* in ramis *Caryæ*, S. Carolina (RAVENEL).

4. **Massariella didymopsis** Mouton in Bull. Soc. R. Bot. Belg. 1886, 3026

p. 151. — Peritheciis sparsis, corticolis, globoso-depressis,  $\frac{1}{3}$  mm. diam., peridermio nigrificato connexis, ostiolo brevi erumpente; ascis cylindraceutis, brevè stipitatis; paraphysibus ramulosis obval-latis, jodii ope non cœrulescentibus, octosporis, 145-160  $\approx$  17-20; sporidiis monostichis, ellipsoideis, uniseptatis, constrictis, loculis

juxta septum guttulatis, olivaceo-fuscis, strato mucoso obvolutis, 20-25  $\approx$  11-12.

*Hab.* in ramulis Sarothamni scoparii, Gomzê Belgii.

5. **Massariella bispora** Curtis Catalogue et Herb., Cooke in Grevill. 3027 XVII p. 93. — Peritheciis corticulis, subgloboso-depressis, tectis, subsparsis, ostiolo peridermium perforante; sporidiis matricem inquinantibus; ascis clavatis; sporidiis ellipticis, 1-septatis, fuscis, 45  $\approx$  18-20, loculis æqualibus, medio constrictis, muco hyalino obvolutis.

*Hab.* in cortice Aceris, in America boreali (DR. CURTIS).

6. **Massariella Rhododendri** Oud. Contr. Mycol. XIII, p. 29. — Peri- 3028 theciis parvis  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., sparsis, in parte peripherica parenchymatis corticalis nidulantibus, periderma perforantibus, lentis, subcoriaceis, primitus fere globosis, postremo depressis, centro perforatis; ascis cylindræis, 170  $\approx$  15; sporidiis monostichis, badiis, fere opacis, ovoideis v. oblongis, 19-23  $\approx$  14, 1-septatis, medio levissime constrictis, eguttulatis.

*Hab.* in ramulis Rhododendri arborei pr. La Haye Hollandiæ (Dom.<sup>a</sup> DESTREË). — Stratum hyalinum in adultis vix conspicuum.

**GIBELLINA** Pass. in Rev. Myc. 1886, pag. 177. *Gibellia* Pass. Una nuova mal. Frum., nec Sacc. (Etym. a cl. Prof. J. GIBELLI in Univers. Taurinensi Botanices Prof. eximio). — Stroma vel subiculum matrici immersum, byssoideum, atro-griseum, primitus canescens, plus minus expansum, ex hyphis tenuibus, fumoso-pellucidis intricatis formatum. Perithecia stromate insidentia vel immersa, contigua, contextu fibroso, globosa, in collum subæquilongum, crassiusculum, rectum vel subinde flexuosum, erumpens attenuata. Asci elongato-clavati, paraphysati, octospori. Sporidia oblonga, didyma, fuscescentia. — A genere *Neopeckia*, cui characteribus accedit, peritheciis innatis et toto habitu differt; ab aliis generibus phæodidymis vero stromate byssoideo et peritheciis fibrosis præcipue diversum.

1. **Gibellina Cerealis** Pass. Nuova mal. Frum. pag. 5. et Rev. Myc. 3029 1886, p. 177. — Stromate intra foliorum vaginam expanso; peritheciis in series lineares digestis vel sparsis, rarius cæspitosis, subglobosis, ostiolo vaginam perforante, vix emerso, acutiusculo; ascis paraphysibus tenuibus obvallatis, diffluentibus, 100-110  $\approx$  22-25; sporidiis distichis, fusiformi-lanceolatis, primo hyalinis, integris

dein medio septatis, non constrictis, e melleo vel avellanaceo fusciscentibus, 22-30  $\approx$  7,5-9.

*Hab.* ad culmos languidos Tritici vulgaris, quos corrumpit, Vigatto et Toschiura prope Parma Ital. bor. — Fungillus satus ab ill. Passerini in olla, una cum Tritico, primo anno quievit, altero vero plantas novas Tritici affecit et vexavit. Nonne, observante Passerinio, sporidia tantum germinant post longam humationem?

**PROTOVENTURIA** Berl. et Sacc. in Atti Soc. Veneto-Trentina 1886 (Etym. a *protos* primus et *Venturia*), *Venturia* De Not. Atti VI, Riun. Scien. Ital. pag. 484. — Perithecia superficialia, majuscula, carbonacea, fragilia, globoso-depressa, vertice setis rigidis, aterrimis, longiusculis vestita, basi setulis subtilioribus, numerosissimis, pallidis, subtortuosis, septatis cincta, poro rotundo, amplo pertusa. Asci oblongi vel elliptici, basi abrupte attenuati, in pedunculum brevissimum desinentes, octospori. Paraphyses nullæ vel (verisimiliter) obsoletæ. Sporidia constricto-didyma, bilocularia, loculis subæqualibus, saturate fuligineis.

1. **Protoventuria Rosæ** (De Not.) Berl. Sacc. l. c. *Venturia Rosæ* De 3030 Notaris Atti VI Riun. Sc. It. p. 484, t. I, f. I, et Giorn. Bot. It. 1864, p. 332, Ces. et De Not. Schema Sfer. It. pag. 51, *Pyrenophora Rosæ* (De Not.) Sacc. Syll. II, p. 285. — Peritheciis sparsis v. laxè gregariis, globosis vel globoso-depressis, majusculis, superficialibus, poro amplo pertusis, sursum setis rigidis, aterrimis apice acutis vestitis basique filamentis mycelicis numerosissimis, 4  $\mu$ . diam., longis, sinuosis, simplicibus, sæpe 4-5 coalitis, septatis, pallidioribus cinctis; ascis amplis, saccatis, sursum obtusis, basi abrupte attenuatis atque in stipitem brevissimum desinentibus, tunica crassa præditis, 95-105  $\approx$  24-27, octosporis; sporidiis inordinatis vel distichis, majusculis, 28-32  $\approx$  13-15, uniseptatis, ad septum constrictis, loculis subæqualibus vel superiore quidquam majore obtusioreque, saturate olivaceo-fuligineis,

*Hab.* in ramulis emortuis Rosæ alpinæ in Monte Cenisio Italiæ borealis.

**AMPHISPHERIA** Ces. et De Not. — Sacc. Syll. I, p. 718.

1. **Amphisphæria applanata** (Fr.) Ces. et De Not. Sacc. Syll. I, p. 718, Winter in Hedwigia 1886, p. 102. — Perithecia demum collapsa, concentrice rugulosa; asci e basi ampliata sursum oblongati, breve pedicellati, 8-spori, 85-105  $\approx$  19-21; sporidia subdisticha, loculo

superiori majori, ad medium valde constricta, utrinque rotundata; paraphyses filiformes.

2. **Amphisphæria decorticata** (Cooke et Hark.) Berl. et Vogl. Add. 3031  
Syll. p. 124, *Sphæria* Cooke et Hark. in Grevillea XIII, p. 19. — Primitus seriata, intra fibrillas corticis nidulans, demum subsuperficialis; peritheciis erumpentibus subserialibus sparsisve, subglobosis, atris, opacis, vix  $\frac{1}{2}$  mm. diam.; ascis cylindraceis, octosporis; sporidiis ellipticis, uniseptatis, medio arcte constrictis, ex cellulis subglobosis efformatis, læte fuscis, 18  $\approx$  9.

*Hab.* in ramis decorticatis *Quercus* in California.

3. **Amphisphæria querceti** Cooke et Mass. Grevill. XVI, p. 92. — Pe- 3032  
ritheciis gregariis, majusculis, 1 mm. diam., initio immersis dein semi emergentibus, conico-convexis, diu epidermide tectis, papillatis, atris, basi applanatis; ascis cylindraceis 8-sporis; sporidiis uniseriatis, ellipticis, utrinque rotundatis, medio leniter constrictis, 1-septatis, brunneis, 28  $\approx$  10.

*Hab.* in cortice *Quercus* albæ, N. Carolina (DR. CURTIS).

4. **Amphisphæria Magnusii** Sacc. Bomm. et Rouss. Fl. Myc. Belg. II, 3033  
p. 19. — Peritheciis superficialibus laxe gregariis globuloso-depressis, nigris, carbonaceis,  $\frac{1}{3}$  mm. diam., ostiolo brevissimo obtuso; ascis clavatis, 8-sporis, 100  $\approx$  16-18, apice obtusis, in stipitem 30-40  $\mu$ . long. attenuatis, paraphysatis; sporidiis subdistichis, oblongo-fusoideis, rectis v. curvis, 1-septatis, constrictis, biconicis, 22-28  $\approx$  8-10, olivaceo-fuligineis.

*Hab.* in ligno *Quercus* et *Carpini* in Groenendael Belgii. Ab *A. Spegazziniana*, cui affinis, differt peritheciis sporidiisque majoribus.

5. **Amphisphæria suecica** (Rehm) Sacc., *Melanopsamma suecica* Rehm 3034  
Beitr. Ascom. Hedw. 1882, p. 120. — Peritheciis solitariis aut gregariis, hemisphæricis, dimidiatis, vix papillatis, poro pertusis, 0,5 mm. diam., subscabris, atris, sessilibus in ligni cariosi superficie; ascis piriformibus, crassis, 8-sporis, 90  $\approx$  21; sporidiis (ut in *Delitschia*) 2-cellularibus, cellula superiore fere duplo angustiore, utraque nucleo 1 magno prædita, fuscis, muco gelatinoso lato obductis, 2-stichis, 25  $\approx$  8; paraphysibus ramosis.

*Hab.* ad ramum fagineum putridum prope Krumbad Sueviæ bavaricæ (BRITZELMAYR).

6. **Amphisphæria anceps** Sacc. et Briard Miscell. Myc. I, n. 2207. 3035  
— Peritheciis ligno striolatim nigrificato subimmersis, globulosis, compressiusculis, minutis,  $\frac{1}{4}$  mm. diam., minute papillatis; ascis

tereti-clavulatis, stipitatis, apice obtusis, octosporis,  $63 \approx 10$ , p. sporif.; sporidiis oblique monostichis, 1-septatis, lenissime constrictis,  $9-11 \approx 5-6$ , biguttatis, olivaceis.

*Hab.* in ramis decorticatis, emortuis Populi, prope Troyes Galliæ (BRIARD). — Hinc *Didymosphæriæ* (Microtheliæ), hinc *Valsariæ* (Phæospermati) nutat, ideoque anceps *Amphisphæriæ* species.

7. **Amphisphæria subiculosa** Ell. et Ev. in Journ. of. Myc. 1886, 3036 p. 103. — Peritheciis superficialibus, gregariis, depresse globosis,  $\frac{1}{3}$  mm. diam., brunneo-atris, rugosis, sursum sublucidis, ostiolo radiato-sulcato, non prominulo præditis, mycelio byssino, brunneo, repente, late effuso insidentibus; ascis cylindræo-clavatis,  $90-100 \approx 12-15$ , copiose paraphysatis; sporidiis distichis, oblongis, pallide brunneis, 1-septatis ad septum leniter constrictis, utrinque obtusis, binucleatis,  $15-10 \approx 4-5$ .

*Hab.* in Populo decorticata, in America boreali (LANGLOIS).

8. **Amphisphæria salicina** (Rehm) Sacc., *Melanopsamma salicina* 3037 Rehm Beitr. Ascom. Hedw. 1882, p. 120. — Peritheciis carbonaceis, hemisphæricis, vix distincte papillatis poroque pertusis, magnitudine seminis sinapeos, solitariis, hic illic 2-8 confluentibus, in ligno longe lateque denigrato; sporidiis biscoctiformibus, acutatis, medio distincte constrictis, 2-cellularibus, quaque cellula plerumque nucleo 1-rarius pluribus prædita, hyalinis, dein fuscis,  $20 \approx 6$ , distichis; paraphysibus ramosis.

*Hab.* ad truncum Salicis retusæ, Waldrast in alpibus tirolensibus (Doct. ARNOLD).

9. **Amphisphæria heteromera** Briard et Sacc. in Rev. Myc. 1885, 3038 n. 12. — Peritheciis subsparsis e basi insculpta superficialibus, globosis, papillatis, carbonaceis, atris nitidulis; ascis cylindræis, subsessilibus,  $104-108 \approx 18-20$ , octosporis, filiformi-paraphysatis; sporidiis subdistichis, oblongo-fusoideis, rectiusculis, utrinque subattenuatis, infra medium septatis constrictisque, fuligineis, loculo infero minore.

*Hab.* in trunco decorticato Carpini prope Troyes Galliæ (BRIARD).

10. **Amphisphæria Wellingtoniæ** (Cooke et Hark.) Berl. et Vogl. Add. 3039 Syll. p. 124, *Sphæria Wellingtoniæ* Cooke et Hark. in Grevillea XIII, pag. 19. — Gregaria, immersa; peritheciis atris, elongato-compressis, hysteroideis, striatis, opacis,  $150-180 \approx 80$ , poro pertusis; ascis cylindræis, 8-sporis; sporidiis ellipticis, uniseptatis, fuscis, vix constrictis, loculo utroque uniguttulato,  $12-14 \approx 8$ .

*Hab.* in ligno dealbato Sequojæ in California (HARKNESS).

11. **Amphisphæria deformis** E. et Langl. Journ. Myc. 1888 p. 123. 3040

— Peritheciis gregariis, erumpentibus, subglobosis v. subcompressis,  $\frac{1}{3}$ – $\frac{1}{2}$  mm. diam., nigris, asperulis, ostiolo irregulari, lacerato-depresso; ascis clavato-cylindræis, circ. 50  $\approx$  7, subevanescentibus, obscure paraphysatis; sporidiis monostichis, oblongis v. clavato-oblongis, brunneis, 1-septatis, constrictis; loculis guttulatis.

*Hab.* in palis vetustis pineis (Juniperi v. Thujae), Pointe à la Hâche Louisiana Amer. bor. — Habitus fere *Melanopsammæ cupressinæ*.

12. **Amphisphæria aquatica** (Ell. et Ev.) Berl. et Vogl. Add. Syll. 3041

p. 125 *Sphæria aquatica* Ell. et Ev. in Torr. bot. Club. 1884, p. 42. — Peritheciis sparsis, membranaceis, 250  $\mu$ . diam., semiimmersis, subglobosis vel parum elongatis; ostiolo papilliformi; ascis linearibus, 150  $\approx$  6–8, copiose paraphysatis; sporidiis recte monostichis, oblongis, uniseptatis, septo leniter constrictis rectis vel leniter curvulis, primum pallidis, crasse binucleatis, demum obscure brunneis, 15–20  $\approx$  6.

*Hab.* in fundo situlæ juniperinæ diu aqua irrorato, Newfield Amer. bor.

13. **Amphisphæria perpusilla** Pass. et Beltr. F. Sic. n. 13. — Peri- 3042

theeciis perexiguis, superficialibus, carbonaceis, subglobosis; ascis subcylindricis, basi breviter stipitatis, paraphysibus filiformibus sublongioribus obvallatis, 75–90  $\mu$ . long., 8-sporis; sporidiis biseriatis vel oblique uniseriatis, elliptico-oblongis, medio septatis fuscidulis, 15  $\approx$  5.

*Hab.* in ligno denudato arido Oleæ europææ, Monostalla Siciliae.

14. **Amphisphæria strichnicola** Pat. Journ. Bot. 1889 p. 168. — Pe- 3043

ritheciis sparsis, nigris punctiformibus, dimidiatis, ostiolatis, ascis cylindræis, 8-sporis, 110  $\approx$  16; paraphysibus numerosis, filiformibus, simplicibus v. ramosis; sporidiis monostichis, septo constrictis, brunneo-viridulis, 25–28  $\approx$  6–7.

*Hab.* in cortice Strichni Gubleri, Haut-Orénoque Venezuelæ (A. GAILLARD).

15. **Amphisphæria immersa** Berl. et Vogl. F. Ancon. p. 8, t. I, f. 6. — 3044

Peritheciis ligno profunde immersis, ostiolo papillato, crassiusculo prominulis, globosis, atris, 300  $\mu$ . diam., carbonaceis; ascis cylindræis, basi in stipitem brevem, nodulosum abeuntibus, 8-sporis, 120–130  $\approx$  12; paraphysibus filiformibus, asco longioribus; sporidiis



oblique monostichis, ovoideis v. ovoideo-oblongis, 1-septatis, ad septum non v. vix constrictis, loculis crasse 1-guttatis, 18-22  $\approx$  8-9, rufo-fuligineis.

*Hab.* in ligno sicco Tamaricis cujusdam pr. Ancona Ital.

16. **Amphisphæria umbrinoides** Passer. Diagn. F. N., I, n. 43. — Peri- 3045  
theciis subsparsis, superficialibus v. basi vix insculptis, carbonaceis, subglobosis, ostiolo papillato; ascis paraphysibus tenuibus stipatis; sporidiis oblongo-fusiformibus pr. medium septatis et constrictis, loculis ut plurimum valde inæqualibus, initio hyalinis, biguttulatis, tandem fuligineis v. castaneo-fuscis, 23-28  $\approx$  7,5-9.

*Hab.* in cortice vetusto *Æsuli Hippocastani*, Parma Ital. — Ad *Amphisph. umbrinam* fructificatione accedit, sed perithecia multo minora et sporidia plus minusve, et interdum vehementer, constricta.

17. **Amphisphæria closterophora** B. et Br. Grevill. XVI, pag. 92. — 3046  
Peritheciis sparsis, majusculis, 1  $\frac{1}{2}$  mm. diam., semiimmersis, conicis, v. basi applanatis, atris, nitidis, ostiolo papillato; ascis clavatis 8-sporis; sporidiis lanceolatis, 1-septatis, medio constrictis, fuscis 75  $\approx$  10.

*Hab.* in ramis denudatis in insula Java (KURZ).

18. **Amphisphæria biocellata** Pass. in Martelli Flor. Bog. pag. 143. 3047  
— Peritheciis ligno insculptis, ostiolo obtuso, emerso, oblongis, umbrinis; ascis cylindræis, basi angustatis, sessilibus, paraphysibus filiformibus etiam duplo superatis, octosporis, 45-60  $\approx$  7,5; sporidiis oblique monostichis, ellipsoideis, ad septum non vel vix constrictis, loculis guttulatis, 10-12,5  $\approx$  5, castaneo-fuscis.

*Hab.* in lignis nudis lichenosis, pr. Keren Abyssiniæ (BECCARI).

19. **Amphisphæria lamprostoma** Pass. in Martelli Flor. Bog. p. 143. 3048  
— Peritheciis sparsis, superficialibus vel vix insculptis, subglobosis, atro-opacis, ostiolo papillato, nitido; ascis cylindræo-subclavatis, paraphysatis, octosporis, 70  $\approx$  7,5; sporidiis monostichis, ellipsoideo-oblongis, medio septatis, non constrictis, loculis subæqualibus, flavo-fuscis, 10-12  $\approx$  5.

*Hab.* in corticibus arborum annosarum, Keren Abyssiniæ (BECCARI).

20. **Amphisphæria Eduardi** Pass. in Mart. Fl. Bog. pag. 144. — 3049  
Peritheciis peridermio insidentibus, sparsis vel aggregatis, hemisphæricis, papillato-ostiolatis, carbonaceis; ascis oblongis, paraphysatis, attenuato-stipitatis, octosporis, 100  $\approx$  15; sporidiis distichis fusiformibus, utrinque acutis, medio septatis et constrictis; loculis subinæqualibus sæpe guttulatis, luteo-fuscidulis, 20-22,5  $\approx$  7,5.

*Hab.* in corticibus lichenosis, Keren Abyssiniæ (BECCARI).

21. **Amphisphæria oronoensis** (E. et E.) Sacc. *Sphæria* E. et E. Journ. 3050

Myc. 1887, p. 117. — Peritheciis sparsis, subcarbonaceis, nigris, rugosulis, subsuperficialibus, basi tantum ligno subimmersis, minutis, circ.  $\frac{1}{6}$  mm. long., globosis v. leniter depresso-globosis, ostiolo papilliformi; ascis linearibus,  $75 \approx 5$ , p. sp. circ.  $50 \mu$ . long., copiose paraphysatis; sporidiis monostichis, oblongo-ellipsoideis, brunneis, 1-septatis, non constrictis,  $6-8 \approx 2,5-3$ ; loculis æqualibus v. inferiore paullo angustiore.

*Hab.* ligno putri, Orono Maine Amer. bor. (F. L. HARVEY). — *A. sardoæ*, ut videtur, affinis.

22. **Amphisphæria corticola** Pat. Bull. Soc. Myc. 1888, p. 113. — 3051

Peritheciis sparsis, rotundatis, 1,5-2 mm. diam., levibus, nigris, superficialibus, basi cortice incrustatis, intus griseolis, pariete crasso præditis; ascis?; sporidiis brunneis, ovoideis, obtusis, rectis 1-septatis, non constrictis,  $23-25 \approx 8-10$ .

*Hab.* in cortice arborum in Atures Venezuelæ.

23. **Amphisphæria Clusiæ** Pat. Bull. Soc. Myc. 1888, p. 113. — Peri- 3052

theciis nigris, opacis, superficialibus, 10-15 gregariis, subglobosis, ostiolo mammillato; ascis cylindræis,  $100 \approx 10$ ; paraphysibus copiosissimis, hyalinis, linearibus; sporidiis octonis, monostichis, brunneo-nigricantibus, ovoideo-rotundatis, 1-septatis, constrictis, 2-guttatis,  $12 \approx 6$ .

*Hab.* in foliis dejectis putridis *Clusiæ roseæ* in Maipures Venezuelæ.

24. **Amphisphæria dothideospora** Cooke et Harkn. in *Grevillea* XIV, 3053

p. 9. — Gregaria; peritheciis emergentibus, epidermide nigrefacta tectis, conico-convexis, nitidis, ostiolo papillato; ascis subclavatis, octosporis; sporidiis subellipticis, inæqualiter uniseptatis, constrictis, fuligineis,  $20 \approx 12$ .

*Hab.* in caule *Mimuli* in California (HARKNESS).

25. **Amphisphæria Hypoxylon** E. et E. in Journ. of Myc. 1886, p. 41. 3054

— Peritheciis dense gregariis, superficialibus, globosis,  $\frac{1}{4}$  mm. diam., rugosis, atris, pruinosis, membranaceo-carbonaceis; ostiolo vix prominulo; ascis clavato-cylindræis,  $55-65 \approx 10-12$ , copiose paraphysatis; sporidiis oblique monostichis, ovato-ellipticis, brunneis, uniseptatis,  $8-9 \approx 5$ .

*Hab.* parasitice in *Hypoxyli effusi* stromatibus, Plaquemines Amer. bor. (REV. A. B. LANGLOIS).

26. **Amphisphæria terricola** Wint. Journ. Bot. 1887, p. 270. — Peri- 3055

theciis gregariis seu subsparsis, primo immersis, demum plus minusve emersis, interdum fere superficialibus, globosis, magnis, vertice rotundato, ostiolo papilliformi, pertuso coronatis, interdum demum umbilicatis et collapsis, atris, tenuissime pilosis, 3-4 mm. lat.; ascis cylindræis, in stipitem longum attenuatis, apice rotundatis, 8-sporis, 175-210  $\approx$  26 p. sp.; sporidiis oblique monostichis v. subdistichis, oblongis, utrinque subattenuatis, inæqualiter didymis, sæpe curvatis, loculo supero intense fusco, parum latiore, sæpe cuspidato semperque apiculo brevissimo, hyalino, papilliformi prædito, loculo infero angustiore, rotundato, dilutius colorato, sine apiculo, 38-54  $\approx$  14-18.

*Hab.* ad terram madidam in Villers-Cotterets (QUESTIER) et Falaise Galliæ (DE BRÉBISSON).

27. **Amphisphæria albo-maculans** (Schwz.) Cooke Grevill., *Sphæria* Schw. — Syll. II, pag. 431. — Sporidia fusiforta uniseptata, brunnea, 12  $\approx$  3.
28. **Amphisphæria conferta** (Schwein.) Cooke Grev. XV, p. 81 *Sphæria* Schw. — Syll. II, 4277, Herb. Berk. 9603. — Sporidia uniseptata, fusca, utrinque obtusa, medio constricta, 12  $\approx$  4.
29. **Amphisphæria diffusa** (Schwein.) Cooke Grev. XV, p. 81. Sacc. Syll. N. 4283, Herb. Berk. 9602. — Sporidia uniseptata, fusca, utrinque acuminata, medio constricta, 18-20  $\approx$  6-7.

Ad genus **Amphisphæriam** forte pertinet *Hypoxylon? gregale* (Syll. I, n. 1469) quod idem est ac *Valsaria gregalis* (Syll. I, n. 2487), nam perithecia, teste Cooke, non confluentia.

**DELITSCHIA** Auersw. — Sacc. Syll. I, p. 732.

1. **Delitschia furfuracea** Niessl in litt. Rehm fasc. XV, n. 747. — 3056  
Peritheciis parenchymaticis, brunneis; ascis amplis, clavatis, 8-sporis, 300  $\approx$  50; sporidiis distichis, oblongis, obtusis, medio constrictis, bicellularibus, strato mucoso obvolutis, obscure brunneis, 45-50  $\approx$  21; paraphysibus filiformibus vel ramosis, guttulatis.  
*Hab.* in fimo leporino, Brünn Moraviæ.
2. **Delitschia Marchalii** Berl. et Vogl. Add. Syll. p. 127, *Delitschia* sp. 3057  
(?) March. Fung. coproph. p. 10. — Peritheciis gregariis, minutissimis, subglobosis; ascis cylindræis, acutiusculis, deorsum brevissime attenuato-stipitatis, 75-85  $\approx$  11-13, parum et minute paraphysatis, 8-sporis; sporidiis plerumque oblique monostichis, ellipticis, apicibus obtusis, ad septum vix constrictis, primo hyalinis tandem

subfuscis, annulo hyalino, angusto cinctis, in articulos binos haud secedentibus,  $10,5-12 \approx 5,5-6$ .

*Hab.* in fimo Cuniculorum inter Limelette et la Baraque in Belgio. — *Delitschiæ elephantinæ* affinis sed magnitudine ascorum et forma sporidiorum distinguenda.

3. **Delitschia Niesslii** Oud. Hedw. 1882, p. 163. — Peritheciis sparsis, ad herbarum residua in fimo cuniculorum vetusto superficialibus, minutis, subglobosis, fuscis, glabris, levibus; ascis cylindraceutis 70-80  $\approx$  8, paraphysibus subtilissimis ramosissimis obvallatis, 8-sporis; sporidiis nitidissime monostichis, ellipticis, 14  $\approx$  6, utrinque obtusis, ad septum vix et ne vix quidem constrictis, maturis non aut saltem difficile in articulos dilabentibus.

*Hab.* in fimo Cuniculorum prope Harlem Hollandiæ.

4. **Delitschia vaccina** Passer. Fungi Nov. IV, p. 4. lib. — Peritheciis gregariis, minutis semiimmersis, glabris, atris, contextu membranaceo, minute celluloso fuligineo; ascis longis, tubulosis, basi in stipitem longissimum, filiformem attenuatis, apice acutis, 8-sporis; sporidiis oblique uniseriatis, ellipticis 1-septatis, ad septum non constrictis, primo pallide olivaceis, dein intense fuscis, 50  $\approx$  22-25.

*Hab.* in fimo vaccino, sociâ *Hypocopra minima* et *Sporormia intermedia* in pratis Cisa in apennino Parmensi Ital.

5. **Delitschia canina** Mout. Ascom. Liège. II, pag. 7, t. I, f. 4. — Peritheciis gregariis, immersis, globosis, 500-700  $\mu$ . diam., glabris, sordide atris, contextu coriaceo opaco, ostiolo nigro, crasso, rudi; ascis clavatis, stipitatis, 8-sporis, 200-200  $\approx$  26, p. sp. 170  $\mu$ . long.; paraphysibus filiformibus; sporidiis subdistichis, oblongis, obtusis, ad septum arctissime constrictis ideoque facillime in articulos binos secedentibus, fusco-opacis, strato mucoso obvolutis, 45-55  $\approx$  15-16.

*Hab.* in stercore canino vetusto, Gomzé Belgii.

6. **Delitschia patagonica** Speg. F. Pat. n. 130. — Peritheciis sparsis, immersis, globosis, 500-700  $\mu$ . diam., glabris, levibus, ostiolo papillulato-obtuso, atro, subcarbonaceo, superficiem matricis attingente v. vix exserto donatis, atris, crassiuscule membranaceis, contextu indistincto, fuligineo, opaco; ascis cylindraceutis sursum obtuse rotundatis, deorsum abrupte, breve noduloseque stipitatis, 200  $\approx$  20, paraphysibus crassiusculis, guttulatis, simplicibus parvis obvallatis, 8-sporis; sporidiis oblique monostichis, ellipticis, 35  $\approx$  16, utrinque obtuse rotundatis, medio 1-septatis et leniter constrictis, non v. vix subinæquilateralibus, opace fuligineis, tunica mucosa, hyalina, tenui obvolutis.

*Hab.* in fimo Aucheniae Guanaco pr. Mount Entrance ad ostia Rio S. Cruz Patagoniæ.

7. **Delitschia leptospora** Oud. Hedw. 1882, p. 163. — Peritheciis sparsis, ad herbarum residua in fimo cuniculorum vetusto superficialibus, minutis, subgloboso-conicis, atro-fuscis, glabris, levibus; ascis subsessilibus, brevibus, 60-70  $\approx$  11-12, cylindraceo-oblongis, paraphysibus subtilissimis, ramosissimis obvallatis, 8-sporis; sporidiis tristichis, fusiformibus, utrinque obtusiusculis, 22-23  $\approx$  4-5, fuscis, ad septum valde constrictis ideoque facillime in articulos dilabentibus. 3062

*Hab.* in fimo Cuniculorum prope Harlem Hollandiæ.

8. **Delitschia consociata** Mout. Ascom. Lièg. II, p. 7, t. I, f. 8. — Peritheciis immersis, minutis, glabris; ascis oblongis, stipite brevi et crasso, 8-sporis, 80  $\approx$  20; paraphysibus filiformibus, ramosis; sporidiis distichis, oblongis, utrinque obtuse rotundatis, 18-20  $\approx$  6, -7,5. haud constrictis, strato mucoso obductis. 3063

*Hab.* in fimo Capreolorum, sociâ *Del. Marchalii* et *D. moravica* in Belgio. — *D. leptosporæ* affinis sed sporidiis crassioribus non constrictis dignoscitur.

9. **Delitschia lignicola** Mouton in Bull. Soc. R. Bot. Belg. 1886, p. 151. — Peritheciis plerumque gregariis, semi vel omnino immersis, atris, globosis,  $\frac{2}{3}$  mm. diam., ostiolo papillato, hirsuto; pilis fuscis, translucidis, 4  $\mu$ . crassis, septatis obtusis; ascis cylindraceis, stipitatis, apice rotundatis, paraphysibus filiformibus obvallatis, octosporis, 195-210  $\approx$  12-15, p. sp. 165-170  $\approx$  12-15; sporidiis monostichis, parallelogrammo-ellipsoideis, uniseptatis, leniter constrictis, opacis, mucro non obductis. 3064

*Hab.* in fragmento ligneo putrescente, Tilff Belgii.

**NEOPECKIA** Sacc. in Peck Torr. bot. Club. 1883, p. 127 (Etym. a *neos* novus et a cl. C. H. PECK). — Perithecia carbonacea, subfragilia, superficialia sed subiculo copioso, effuso semiimmersa, rarius subiculo parco, perithecia vero pilosa, globosa, papillata, denique latiuscule pertusa; asci octospori, elongati copiose paraphysati. Sporidia didyma, fuliginea. — A genere *Amphisphæria* subiculi copiosi vel pilorum præsentia differt, ab *Enchnosphæria* et *Eriosphæria* sporidiis perfecte didymis, fuligineis recedit.

1. **Neopeckia Coulteri** (Peck) Sacc. in Torr. bot. Club. 1883, p. 127, *Sphæria Coulteri* Peck in Hayden's U. S. Geol. Survey, 1872, p. 792, *Enchnosphæria* (?) *Coulteri* Sacc. Syll. II, p. 207, *Lasiq-* 3065

*sphæria acicola* Cooke in Grevillea 1880, pag. 87. *Amphisphæria* (?) *acicola* Sacc. Syll. vol. I, p. 727. — Peritheciis 0,5 mm. diam., demum papillâ amissâ, perforatis; ascis 130-140  $\approx$  14-15, p. sp., paraphysibus copiosis, filiformibus; sporidiis utrinque obtusiusculis, 20-28  $\approx$  9-10, intense fuligineis.

*Hab.* in foliis Pini in montibus Rocky Amer. bor. — Habitu externo *Enchnosphæriæ Pinetorum* peraffinis, sed fructificatio prorsus aliena.

2. **Neopeckia quercina** G. Delacroix Bull. Soc. Myc. Fr. 1890 f. IV. — 3066  
Peritheciis atris, carbonaceis, primum imperforatis, 300-400  $\mu$ . lat.; mycelio copioso, sub perithecio effuso, hyphis continuis fuscis, 500  $\approx$  3, apice obtusiusculis; ascis cylindræis, 180  $\approx$  12; sporidiis monostichis, primum subhyalinis, uniseptatis, biguttatis, demum intense fuscis, uniseptatis, guttulis non visibilibus, 24  $\approx$  10; paraphysibus furcatis, gracilibus.

*Hab.* in ligno quercino sicco, Saone et Loire Galliaë.

3. **Neopeckia fulcita** (Buckn.) Sacc., *Lasiosphæria fulcita* Bucknall 3067  
Fungi Bristol X, p. I, f. XIII, f. 8. — Peritheciis confertis, emergenti-superficialibus, ovato-globosis, rugosis, pilis brevibus, septatis, brunneis, laxè conspersis, 0,4 mm. diam., ostiolo lato, profunde radiato-sulcato; ascis linearibus, 120  $\approx$  5, filiformi-paraphysatis; sporidiis ellipsoideis, mox 1-septatis, brunneis, 1-2-nucleatis, 12-13  $\approx$  5.

*Hab.* in ramis emortuis quercinis pr. Bristol Britanniaë.

#### RHYNCHOSTOMA Karst. — Sacc. Syll. I, p. 730.

1. **Rhynchostoma tinctum** (Ell. et Ev.) Berl. et Vogl. Add. Syll. p. 125, 3068  
*Ceratostoma* Ell. et Ev. in Bull. Washb. Lab. Nat. Hist. 1884, p. 5. — Peritheciis erumpentibus, superficialibus, ovoideo-globosis,  $\frac{1}{6}$  mm. diam., rugulosis, ostiolatis; ostiolis filiformibus,  $\frac{2}{3}$ - $\frac{3}{4}$  mm. longis, sublevibus, subinde sursum parum dilatatis; apice globulo sporidiorum coronato; ascis subcylindræis, circiter 30  $\approx$  7, subsessilibus, paraphysibus, filiformibus obvallatis; sporidiis distichis, oblongo-ellipsoideis, subacutis, uniseptatis, 6-7  $\approx$  2,5-3.

*Hab.* in ligno emortuo Aceris macrophylli, Klikitat Co. Am. bor. — Affine *R. minuto*.

2. **Rhynchostoma Beccarianum** Pass. in Martelli For. Bog. osensis, 3069  
p. 144. — Peritheciis globosis, atris, basi ligno insculptis, in rostrum cylindricum, æquilongum, rectum, apice truncatum, albo-marginatum et centro perforatum productis; ascis numerosis, cylin-

draceis, octosporis,  $60 \approx 5$ ; paraphysibus filiformibus, tenuibus, superantibus obvallatis; sporidiis oblique monostichis, interne fuscis, ellipsoideis, obscure septatis,  $7,5 \approx 4,5-5$ .

*Hab.* in ligno denudato sicco, Keren Abyssiniæ (BECCARI).

3. **Rhynchostoma rubro-cinctum** Karst. Hedw. 1890 p. 178. — Peri- 3070  
theciis subgregariis, innato-erumpentibus conoideo-sphæroideis, basi applanatis, atris, glabris, 0,2 mm. diam., rostro cylindraceo, secto v. sæpius subflexuoso, sublevi, brunnescente, sub apice obtuso rubro solitoque marginato, 1-2 mm. long.; ascis clavatis, cito diffluentibus, 40-45  $\approx$  10; sporidiis octonis, di-tristichis, ovoideis v. fusoido-oblongatis, 1-septatis, vix constrictis, olivaceis, 8-10  $\approx$  3-5; paraphysibus flexuosis, 1-1,5  $\mu$ . cr.

*Hab.* in ligno vetusto betulino, colore subrubro tincto, loco humido umbroso pr. Mustiala Fenniæ.

**RHYNCHOMELIOLA** Speg. Fungi Guar. Pug. I, p. 283 (Etym. *rhynchos* rostrum et *Meliola*, ob perithecia eximie rostrata). — Perithecia atra, parvula, globulosa, sursum in ostiolum cylindraceum, prælongum, obtusum producta, subiculo concolori, tomentosulo, conidiifero, phyllogeno insidentia; asci cylindraceo-clavati, aparaphysati, 8-spori; sporidia elliptica, didyma, chlorino-olivacea. — Genus *Dimerosporio* affine, ostioli præsentia recedens, ad *Capnodium* pluribus characteribus vergens; ab utroque vero satis distinctum est, et melius sub *Sphæriaceis* militare videtur.

1. **Rhynchomeliola pulchella** Speg. Fungi Guar. Pug. I, n. 224. — Mycelio hypophyllo, cum tomento foliorum intertexto, fusco v. olivascenti-atro, maculas plus minusve elatas, 1-15 mm. diam., indeterminatas, sæpe confluenti-evanescentes, irregulares efficiente, ex hyphis sterilibus, repentibus, dense intricatis, fuligineis, parce septatis, subcrassiusculis, 4-6  $\mu$ . crass., hinc inde hyphis fertilibus, conidiiferis, erectis ornatis composito; peritheciis in mycelio nidulantibus et absconditis, globulosis, parvulis, 100-110  $\mu$ . d., membranaceis, contextu minute parenchymatico, fuligineo-atro, glabris, levibus, superne in ostiolum prælongum, subcylindraceum, 400-520  $\approx$  25-30, merenchymaticum, apice truncato-rotundatum, in senectute fimbriato-dehiscens, pallidius productis; ascis cylindraceo-clavatis, apice rotundatis, basi brevissime attenuato-stipitatis, 24-28  $\approx$  5, subdiffluentibus, aparaphysatis, 8-sporis; sporidiis distichis, ellipticis, rectis v. vix inæquilateralibus, utrinque acutato-obtusatis, medio

1-septatis non constrictis, 6-7  $\approx$  2 primo hyalinis, dein dilute olivaceis.

*Hab.* ad folia viva Feijoa Sellovianæ in silva subvirginea Caá-guazú Bras. — Hyphæ conidiiferæ erectæ, rectæ, longiusculæ, 240-458  $\approx$  6-6,5, parce septatæ, fuliginææ, apice pallidiores acrosporæ, monospermæ, simplices; conidia fusoidea v. elliptico-v. clavulato-elongata, recta v. leniter inæquilateralia, antice acutiuscule rotundata, postice attenuata ac truncatula, 24-55  $\approx$  7 et primo continua, hyalina, dein 5-10-septata, ad septa leniter constricta, eguttulata, levia. Status conidicus tandem *Helminthosporium pulchellum* sistens.

**OTTHIA** Nits. — Sacc. Syll. I, p. 735.

1. **Otthia Spirææ** Fuck. — Sacc. Syll. I, p. 735, Winter in Hedwigia 1886, p. 104. — Asci 175-193  $\approx$  17-18; sporidia medio parum constricta, opaca, 28-30  $\approx$  12; paraphyses filiformes.
2. **Otthia Monodiana** Sacc. et Roum. in Rev. Myc. 1883, p. 235, t. 39, 3071 fig. 6. — Peritheciis subcutaneo-erumpentibus, in cæspites minutos collectis, globosis, obtusis, atris, rugulosis,  $\frac{1}{2}$  mm. diam.; ascis cylindræeis, 160-170  $\approx$  18, paraphysatis, breve stipitatis, octosporis; sporidiis oblique monostichis, ellipsoideis, constricto-1-septatis, 23-25  $\approx$  12-14, fuliginæis.

*Hab.* in ramis Salicis caprææ in Arduennis (LIBERT). — Affinis *O. Alni*.

3. **Otthia Pteleæ** Rab. in Fung. Europ. n. 1846. — Peritheciis gregariis, epidermide tectis, globosis, atris; ascis cylindræeis, octosporis; sporidiis exacte mono-vel distichis, oblongis vel ovoideis, uniseptatis, fuscis, 16-18  $\approx$  8-9. 3072

*Hab.* in ramis emortuis Pteleæ trifoliatæ, Schlossgarten zu Salem Baden (JACK).

4. **Otthia Amelanchieris** Karst. Frag. XXIV, pag. 3. — Peritheciis in cæspites erumpentes stipatis, sphæroideis vel mutua pressione valde difformibus, vertice interdum depressis, ostiolo minute papillato v. obsoleto, levibus, glabris, atris, 300-400  $\mu$ . diam.; ascis cylindræeo-subclavatis, 200  $\approx$  20, jodo fulvescentibus; sporidiis monostichis, octonis, ellipsoideis v. oblongatis, utrinque obtusissimis, 1-septatis, ad septum constrictis, fuliginæis, opacis v. semipellucidis, 30-36  $\approx$  12-18; paraphysibus flexuosis. 3073

*Hab.* ad ramos siccos Amelanchieris vulgaris in horto mustialensi Fenniæ.



5. **Otthia alnea** Peck — Syll. I, n. 2804. — Var. **carnosa** Cooke 3074  
Grevill. XV, p. 80, *Cucurbitaria carnosa* Cooke (1876). — Sporidiis uniseptatis, demum triseptatis, hyalinis, medio constrictis,  $25 \approx 5$ .

*Hab.* in ramis Alni, Portland, Maine Amer. bor. (FULLER).

6. **Otthia Ilicis** H. Fab. Sphér. Vaucl. II, pag. 47, fig. 17. — Peri- 3075  
theciis in acervulos epidermide rupta cinctos dense congestis, cortici infixis, globosis, papillulatis,  $\frac{1}{2}$ - $\frac{2}{3}$  mm. latis; ascis cylindraceis, breve stipitatis, 8-sporis, parte sporifera  $180 \approx 18$ ; sporidiis oblique monostichis, didymis, medio constrictis utrinque obtusis, fulvo-luteis, dein fuliginis,  $24-30 \approx 12-15$ .

*Hab.* ad ramulos dejectos *Quercus Ilicis*, Vacluse Galliæ. — Differt ab *O. Quercus* ascis cylindricis nec clavatis duploque longioribus etc.

7. **Otthia ambiens** Niessl Hedw. 1881, p. 98. — Peritheciis dense cæ- 3076  
spitosis, hemisphæricis v. subglobosis, coriaceo-carbonaceis, atris, obscure umbilicatis et papillatis; ascis clavatis, oblongis, amplis  $130-150 \approx 40-50$ ; sporidiis 8, inordinate 2-3-stichis, oblongis vel parum semilanceolatis vel elongatis piriformibus, inæqualiter diblastis, uniseptatis, parte superiori multo majori, inferiori minori, attenuatis, atro-fuscis,  $45-52 \approx 15-20$ ; parapysibus numerosis ramulosis, guttulatis.

*Hab.* in ramis siccis *Betulæ albæ* in Germania.

8. **Otthia Wistariæ** Pass. Diagn. Fung. nuovi III, n. 16. — Cæspitulis 3077  
parvulis, erumpentibus, subrotundis vel rarius oblongis, longitudinaliter subseriatis; peritheciis stromate corticali fusco insidentibus, subglobosis, opacis, ostiolo punctiformi v. obsoleto; ascis cylindricis, paraphysatis, 8-sporis,  $105 \approx 8$ ; sporidiis monostichis, ellipticis, uniseptatis, non v. vix constrictis, fuscis,  $12,5 \approx 7,5$ .

*Hab.* in ramis siccis *Wistariæ sinensis* in horto Botanico Parmensi Ital. bor. — *O. diminuta* Karst. affinis, sed asci breviores, paraphyses non ramosæ et sporidia latiora.

#### MELANCONIELLA Sacc. Syll. I, p. 741.

1. **Melanconiella biansata** (Ell. et Ev.) Berl. et Vogl. Add. Syll. p. 128, 3078  
*Melanconis biansata* Ell. et. Ev. in Torr. bot. Club. 1883, p. 118. — Peritheciis in stromate *M. Meschuttii* simili circinatis, globosis, 0,75 mm. diam., mox collapsis, 6-10; ostiolis brevibus, quadrangularibus vel apice imperfecte pertusis, in discum acute ellipsoideum vel orbicularem, sordide brunneum, epidermidem perforantem

et ea rupta cinctum, collectis; ascis 190-200  $\approx$  30, evanidis (octosporis?); sporidiis oblongo-ellipsoideis, uniseptatis, mox brunneis, sæpius utrinque appendicula brevi, tuberculiformi, obtusa ornatis, 35-45  $\approx$  15-19 (sine appendiculis).

*Hab.* in ramis Betulæ, Plainfield Amer. bor.

2. **Melanconiella apocrypta** Ell. Amer. Nat. Febr. 1883, p. 195. — 3079

Peritheciis 8-12 subcircinantibus,  $\frac{1}{2}$  mm. diam., membranaceis, cortice interiore nidulantibus, stromate obsoleto, epidermide vix pustulatim elevata tectis; ostiolis brevibus, fasciculatis; ascis subclavatis, 114  $\approx$  22 v. elongatis, 120-150  $\approx$  12; sporidiis distichis v. monostichis, ellipsoideis, 25-30  $\approx$  11-13, strato mucoso hyalino obvolutis, dein brunneis.

*Hab.* in ramis emortuis Populi, Decorah Jowa Americæ borealis (E. W. HOLWAY). — Status conidicus forte refert *Melanconium populinum* Peck.

3. **Melanconiella leucostroma** (Niessl et Rehm) Sacc. *Melanconis leu-* 3080

*costroma* Niessl et Rehm Ascom. n. 674, Hedw. 1883, p. 40. — Stromate pustulato v. subapplanato, vix limitato, superficie albo-pruinoso; peritheciis monostichis, 6-9 circulari-aggregatis v. subinordinatis, subglobosis, minutis, ostiolis convergentibus, fasciculatis; ascis elliptico-oblongis, 70  $\approx$  15, septulato-paraphysatis, octosporis; sporidiis 2-3-stichis, elongato-obtusis, rectis, 1-septatis, 2-nucleatis, constrictis, 18-24  $\approx$  5-7, fuscescentibus, utrinque appendicula filiformi hyalina 6-8  $\mu$ . longa auctis.

*Hab.* in ramis dejectis Fagi silvaticæ prope Brünn Moraviæ (NIESSL).

4. **Melanconiella Meschuttii** (Ell. et Ev.) Berl. et Vogl. Add. Syll. 3081

pag. 129, *Valsa Meschuttii* Ell. et Ev. in Bull. Torr. bot. Club. 1883, pag. 117. — Peritheciis 10-20, circinatis, in stromate lenticulari, nigro, orbiculari v. ellipsoideo, superficie interiore corticis, insidente immersis, ostiolis brevibus, cylindræis, in discum sordide brunneum, epidermidem transverse erumpentem collectis, apice distincte 4-rimoso; ascis circiter 75  $\approx$  10 p. sp.; sporidiis distichis, ellipsoideis, leniter curvis, 14-16  $\approx$  6-8, uniseptatis, vix constrictis, primum subhyalinis, demum brunneis, utrinque appendicula hyalina, corniformi, mox evanida ornatis.

*Hab.* in ramis emortuis Betulæ, Plainfield Americæ borealis (GEORGE F. MESCHUTT). — An eadem ac var. *major* sequentis?

5. **Melanconiella decorahensis** Ellis Am. Nat. 1883, Febr. p. 195. — 3082

Peritheciis subglobosis, coriaceis,  $\frac{1}{2}$  mm. diam., 8-12 circinantibus,

stromate corticali exceptis, epidermideque tectis, ostiolis vix prominentibus, in discum ellipticum, erumpens, sordide griseum conjunctis; ascis cylindraceutis, breve stipitatis, 95-115  $\approx$  9-11 p. sporif.; sporidiis monostichis, ellipsoideis, obtusis, 1-septatis, olivaceis, 15-20  $\approx$  8-10; conidiis in stromate discreto, obovatis, olivaceo-nigricantibus, ascosporas subæquantibus.

*Hab.* in ramis emortuis Betulæ, Decorah Jowa Americæ borealis (E. W. HOLWAY). — Var. **major** Ellis Journ. Myc. 1887, p. 42: sporidiis longioribus nempe 16-26  $\approx$  8-10, plerumque biseriatis, cetera eadem. In ramis emortuis Betulæ, Plainfield N. J. Amer. bor. (G. F. MESHUTT).

6. **Melanconiella acrocystis** (Peck) Berl. et Vogl. Add. Syll. I, p. 128, 3083

*Valsa acrocystis* Peck in 33 Rep. St. Mus. p. 34, t. 2, f. 19-22. — Pustulis minutis, epidermide tectis et eam leniter elevantibus atque in lacinias acutas transverse rumpentibus; peritheciis sæpius 4-12 in quaque pustula circinatis, cortice interiore insidentibus, tomento griseo-brunneo tectis, ostiolis brevibus, nigris, obtusis, seriatim dispositis; ascis oblongis; sporidiis latis, stipatis v. distichis, oblongis, coloratis, uniseptatis, 40-62  $\approx$  12-20, utrinque appendicula hyalina, subglobosa v. sphæroidea præditis.

*Hab.* in ramis emortuis Betulæ lentæ, North Greenbush Amer. bor.

**MASSARIOVALSA** Sacc. Mich. II, p. 569. — Perithecia cortice immersa, circinantia. Asci paraphysati, 4-8-spori. Sporidia uniseptata, ovato-oblonga, fusca, strato hyalino crasso obvoluta. — Est *Valsa* sporidiis *Massariellæ* instructa, unde etymon.

1. **Massariovalsa sudans** (B. et C.) Sacc. *Massariella sudans* (B. et C.) Sacc. Syll. I, p. 717. — Adde: in cortice *Quercus albæ*, Newfield N. J. (ELLIS). — Asci teretes 180-200  $\approx$  20-25, apice obtusi lumineque coarctato, octospori; paraphyses guttulatæ; sporidia monosticha oblongo-ellipsoidea, constricto-1-septata, olivaceo-fuliginea, 35-40  $\approx$  15-16, strato crasso hyalino obvoluta.

**VALSARIA** Ces. et De Not. — Sacc. Syll. I, p. 741.

1. **Valsaria majuscula** Cooke et Harkn. in *Grevillea* XIII, p. 17. 3084  
— Tecta; pustulis sparsis vix prominulis; peritheciis 6-10 compositis, demum cuticulam perforantibus, ostiolis brevibus obtusis; ascis amplis; sporidiis majusculis, ellipticis, medio constrictis, utrinque rotundatis, uniseptatis, fuscis, 50  $\approx$  25.

- Hab.* in ramis Salicis in California (HARKNESS).
2. **Valsaria Hookeri** (Cooke) Berl. et Vogl. Add. Syll. I, p. 130, *Me-* 3085  
*logramma Hookeri* Cooke in Grevill. XIII, p. 103 — Acervulis  
 erumpentibus, discoideis, atris; peritheciis prominentibus, minimis,  
 confluentibus vel subdiscretis; ascis clavatis; sporidiis lanceolatis,  
 uniseptatis, valde constrictis, fuscis, 35-45  $\approx$  7.  
*Hab.* in corticibus South Marocco (HOOKER).
3. **Valsaria collematoides** (B. et Rav.) Berl. et Vogl. Add. Syll. p. 131, 3086  
*Botryosphæria collematoides* B. et Rav. in Grevillea XIII, p. 102.  
 — Stromate effuso, tenui, atro; peritheciis parvulis, ovalibus, con-  
 gestis, demum apice applanato, opaco, botryoideo-aggregatis, sub-  
 confluentibus; ascis cylindraceutis, octosporis; sporidiis ellipticis, uni-  
 septatis, vix constrictis, fuscis, 15  $\approx$  7.  
*Hab.* in corticibus in America boreali.
4. **Valsaria Caproni** (Cooke) Berl. et Vogl. Add. Syll. p. 131, *Pseu-* 3087  
*dovalsa Caproni* Cooke in Grevillea XIV, p. 48. — Pustulis in  
 ligno immersis; peritheciis subglobosis, atris, circinantibus sursum  
 in colla brevia convergentia productis; ascis cylindraceutis, octosporis;  
 sporidiis uniseriatis, ellipticis, medio uniseptatis, nec constrictis  
 fuscis, 15  $\approx$  5.  
*Hab.* in ligno denudato quercino, Shere Britannicæ (D. CAPRON).
5. **Valsaria nigrispora** (Peck) Berl. et Vogl. Add. Syll. p. 129, *Dia-* 3088  
*trype nigrospora* Peck in 33 Rep. Stat. p. 33. — Stromate minu-  
 to, subtili, orbiculari, pustulato, nigrescente v. nigro, epidermidem  
 elevante et eam stellatim v. transverse rumpente; peritheciis par-  
 cis, sæpe 6-12, ligno insculptis stromateque sursum tectis; ostio-  
 lis vix prominulis, discum subcinereum v. nigrescentem perforan-  
 tibus; ascis subcylindraceutis, 8-sporis; sporidiis stipatis vel distichis,  
 oblongo-ellipsoideis, obtusis, sæpe leniter curvulis, uniseptatis, 16  $\approx$   
 8, loculis crasse 1-guttatis, primum pallidis, demum coloratis.  
*Hab.* in ramis emortuis Betulæ luteæ, Quaker Street Ame-  
 ricæ borealis.
6. **Valsaria Sarraziniana** Sacc. et Roum. in Rev. Myc. 1883, t. 39, 3089  
 f. 8. — Stromate late effuso sed vix manifesto, corticali; perithe-  
 ciis hinc inde 3-4 aggregatis v. subsparsis, globosis, nigris,  $\frac{3}{4}$  mm.  
 diam., omnino abditis; ostiolis brevibus, punctiformi-perforantibus;  
 ascis cylindraceutis, longiuscule stipitatis, 100-170  $\approx$  10; paraphy-  
 sibus filiformibus obvallatis, octosporis; sporidiis oblique 1-stichis,  
 oblongis, constricto-1-septatis, loculo superiore paullo crassiore,  
 20-22  $\approx$  7-7,5, olivaceo-fuliginis.

*Hab.* in cortice Alni glutinosæ in Arduennis (LIBERT). —  
*Valsariæ fœdanti* videtur affinis.

7. **Valsaria salicina** Ell. et Ev. Phil. Proc. 1890, p. 236. — Stromate 3090  
subovato, 2-2,5 mm. diam. cortice immerso, supra intus pallide colorato, tuberculi ad instar brunneo-nigri, subhemisphærici, 1-2 mm. lat., fere 1 mm. alt. prominulo; peritheciis 10-20 in quoque stromate, irregulariter congestis, ovato-globosis, contextu crasso, supra in colla gracilia, 1 mm. l. v. ultra contractis, ostiolis papilliformibus, subprominentibus; ascis gracilibus, 70-80  $\approx$  5-6 p. sp.; paraphysibus copiosis; ascis longioribus; sporidiis oblique monostichis, oblongis, confertis, cylindræis, 2-guttatis, brunneis, 1-septatis, 10-12  $\approx$  3,5.

*Hab.* in ligno emortuo Salicis, London Canada Amer. bor.  
— *V. anthostomoidi* affinis.

8. **Valsaria exasperans** (Ger.) Sacc., *Dialtrype exasperans* Ger. Bull. 3091  
Torr. Cl. V, pag. 39. — Stromate olivaceo-virente; ascis cylindræis; sporidiis ovatis, obtusis, 1-septatis, constrictis, 15  $\approx$  7, fuliginæis.

*Hab.* in cortice Fagi ferruginæ in Amer. bor.

9. **Valsaria purpurea** Peck in Torr. bot. Club. 1884, p. 28. — Pu- 3092  
stulis erumpenti-emergentibus, tomento purpureo tectis; peritheciis 6-20 in quaque pustula, stipatis, subglobosis, nigris; ostiolis tomentum perforantibus, rostratis, cylindræis vel elongato-conoideis, rugosis, sæpe curvis vel flexuosis, nigris; ascis cylindræis, paraphysatis, 75-110  $\approx$  10; sporidiis uniseriatis, coloratis, oblongo-ellipsoideis, uniseptatis, 15-16  $\approx$  7,5-8.

*Hab.* in cortice Fraxini, Canada Amer. bor. (MACOUN).

10. **Valsaria stellulata** Romell in Hedwigia 1885, pag. 263. — Stro- 3093  
mate eutypeo; ostiolis emergentibus, astroideis; ascis clavatis, longissime pedicellatis, 8-sporis, 135-150 (parte sporif. 60-90)  $\approx$  10-12; sporidiis botuliformibus, utrinque rotundatis, medio (rarius infra medium) 1-septatis (rarissime inæqualiter 2-septatis), non constrictis, primo olivaceis, continuis et guttulatis, dein fuscis et vix guttulatis, sed distincte septatis, rectis v. curvulis, 16-25  $\approx$  4-6.

*Hab.* in ligno truncorum Fraxini excelsioris pr. Upsala in Suecia (ROMELL).

11. **Valsaria Phoradendri** (Berk. et Curt.) Berl. et Vogl. Add. Syll. 3094  
p. 130 *Melogramma Phoradendri* B. et Curt., Curt. Cat. 143, Cooke in Grev. XIII, p. 103. — Peritheciis gregariis, tectis, demum cortice fisso-rimoso erumpentibus, atris, obtusis; ascis subcy-

lindricis; sporidiis subellipticis, uniseptatis, leniter constrictis, fuscis, 28-30  $\approx$  10-12.

*Hab.* in cortice *Phoradendri flavescens* in Amer. bor.

12. **Valsaria grandinea** (Berk.) Berl. et Vogl. Add. Syll. p. 130. *Melogramma* (*Valsaria*) *grandinea* Berk. nec *Diatrype grandinea* B. et Rav. *Melogramma insidens* Berk. in Grev. IV. 99, nec Schweinitz (ita Cooke in Grevillea XIII, p. 103). — Stromate effuso, subrotundo, fusco-nigro; peritheciis emergentibus, confertis, ovatis, apice depresso subumbilicatove; ascis clavatis; sporidiis ellipticis, uniseptatis, nec constrictis, 8  $\approx$  4, fuscis, diu continuis.

*Hab.* in cortice *Fraxini* in America boreali.

13. **Valsaria Bignonix** (Schw.) Cooke in Grevillea XIII, p. 39, *Sphæria Bignonix* Schw. Syn. Amer. bor. n, 1310 et Sacc. Syll. II, p. 383. — Sporidia olivaceo-brunnea, uniseptata, 15  $\approx$  8.

14. **Valsaria Robinix** (Schw.) Cooke in Grevillea XIII, p. 37. *Sphæria Robinix* Schw. Car. n. 61 et Sacc. Syll. II, p. 369. — Sporidia elliptica, uniseptata, brunnea, 20  $\mu$ . longa.

15. **Valsaria actidia** Berk. et Rav. in Herb. Berk. Cooke in Grev. XIV, p. 14. — Stromatibus innato-emergentibus; peritheciis magnis, paucis, 4-6, ostiolis cuneiformibus, stellatim dispositis; ascis amplis (tetrasporis?); sporidiis ellipticis, uniseptatis, constrictis, fuscis, 40-42  $\approx$  16-18.

*Hab.* in ramulis *Ostryæ* et *Carpini* in Carolina inf.

16. **Valsaria atrata** Sacc. et Br. Misc. Myc. II, p. 22. n. 97 tab. XI, fig. 29. — Stromatibus gregariis, cortice initio tectis et ligno superficie late nigrificato basi adnatis, globoso-conoideis, aterrimis; peritheciis stromate immersis, paucis, globulosis, ostiolis breviter emergentibus, papillatis; ascis cylindræis, breve stipitatis, copiose paraphysatis, octosporis; sporidiis monostichis, ellipsoideo-oblongis, constricto-1-septatis, 17-20  $\approx$  8-11, initio flavicanti-olivaceis, 2-guttulatis, dein opace fuliginis.

*Hab.* in caulibus emortuis *Brassicæ oleracæ* acervatis, Troyes Galliæ (BRIARD).

17. **Valsaria pustulans** (E. et E.) Sacc. *Diatrype pustulans* E. et E. Journ. Mycol. 1888, p. 80 (ex errore 68). — Stromatibus applanatis, e matricis substantia vix mutata formatis, cuticula nigrificata, pustulatim elevata, demum ostiolis papilliformibus subprominentibus perforata, tectis,  $\frac{1}{4}$ - $\frac{1}{2}$  cm. lat., sed usque ad 2-4 cm. v. ultra plus minus confluentibus, area linea nigra limitata; peritheciis membranaceo-coriaceis, subglobosis v. leniter applanatis, ma-

gnitudine media, in quoque stromate 8-12; ascis gracilibus, 75-85  $\approx$  6-7, subsessilibus; paraphysibus filiformibus; sporidiis monostichis, oblongis, 1-septatis, constrictis, utrinque angustatis, rectis, brunneis, 10-12  $\approx$  3.

*Hab.* in caulibus emortuis Arundinariæ, St. Martinsville, Louisiana Amer. bor. — Adest socia *Coniothyrii* species, peritheciis minutis immersis sporulisque exiguis, 2  $\mu$ . diam. brunneis.

18. **Valsaria atro-fusca** (Schw.) Cooke in Grev. *Sphæria* Schw. Syll. II, n. 4227, Herb. Berk. n. 9925. — Sporidia uniseptata, 10-12  $\mu$ . long. — Sec. Cooke ad gen. **Valsariam** pertinere videntur: *Hypoxylon gemmatum* B. et Rav. (Syll. I, n. 1369) (sporid. 1-septatis), *Hypoxylon?* *Aceris* C. et E. (Syll. I, n. 1423).

### Sect. 6. Phæophragmiæ \*).

**MASSARIA** De Not. — Sacc. Syll. I, p. 2, Cfr. Berl. Ic. I, p. 23.

1. **Massaria occulta** Romell in Hedwigia 1885, p. 262. — Peritheciis sparsis vel subaggregatis, cortice totis immersis, nigris, intus atris, minutis circ.  $\frac{1}{5}$  mm. diam., ostiolis vix emersis, nudo oculo puncta alba in peridermio levi (non elevato) offerentibus; ascis cylindræis, breviter stipitatis, paraphysatis, 8-sporis, 130-180 (parte sporif.)  $\approx$  10-12; sporidiis monostichis, oblongis, obtusis, sæpe nonnihil inæquilateralibus, primo 4-guttulatis, guttulis globosis, deinde guttulis transverse ovalibus v. transverse fusiformibus demum 3-septatis, fuligineo-olivaceis, 20-28  $\approx$  8-9, vix vel non hyalinis obvolutis. 3099

*Hab.* ad ramos emortuos Ribis Grossulariæ prope Kumla, Nericia in Suecia (L. ROMELL).

2. **Massaria Winteri** Rehm Hedw. Ascom. Ill. sub n. 698, *M. Corni* 3100 Kunze F. sol. n. 338 nec Auct. — Peritheciis minutis, fuscidulis, sub epidermide nidulantibus eamque infuscantibus et elevantibus; sporidiis fusiformibus subacutis, rectis, medio constrictis, 2-cellularibus, quaque cellula nucleis 2 magnis instructis, hyalinis, 18  $\approx$  3,5, 8, biseriatis, in ascis clavatis, 60  $\approx$  18; paraphysibus ramosis.

*Hab.* in ramis Corni pr. Zürich Helvetiæ (WINTER).

\*) Cfr. A. N. Berlese *Icones fungorum ad usum Sylloges Saccardianæ adcommodatæ*, Asculi Picen. 1890 et seq. opus gravissimi laboris et sane utile, ubi species plures ex autoptica comparatione delentur vel accuratius illustrantur. Hic tantum genera et species novas afferre potui.

3. **Massaria Destreæ** Oud. Contr. Mycol. XIII, p. 29, t. 8, f. 13. — 3101

Peritheciis gregariis, nonnumquam in circulos dispositis cortici immersis, tandem vertice erumpentibus ostioloque punctiformibus dehiscentibus, 1-1,5 mm. diam.; ascis non visis; paraphysibus numerosissimis, filiformibus; sporidiis oblongis, saturate fuscis, 80-84  $\approx$  18-21, strato gelatinoso, amplo obvolutis, 3-septatis, septo mediano prominente.

*Hab.* in ramulis Aceris Pseudoplatani, in silva Schéveningue Hollandiæ (Domina DESTREË).

4. **Massaria conspurcata** (Wallr.) Sacc. Syll. f. II, p. 782, Bomm. et 3102

Rouss. Contr. Myc. II, p. 16, Berl. Ic. t. 13, f. 3. — Peritheciis globulosis,  $\frac{1}{2}$  mm. diam., solitariis v. 2-4-confertis, ligno immersis, epidermide tumidula tectis, nucleo gelatinoso, virente; ostiolo brevissimo, perforante sed vix exserto; ascis tereti-clavatis, sessilibus, 4-sporis, 225-260  $\approx$  27, p. sporif. 198-204  $\approx$  27; paraphysibus copiosis longissimis; sporidiis fusoides, initio hyalinis guttatis, dein 1-3-septatis, 6-8-guttatis, olivaceis tandem brunneis, medio secidentibus, strato mucoso obvolutis, 69-85  $\approx$  14-18.

*Hab.* in ramis emortuis Pruni Padi in Germania et Belgio. — Adest stat. spermogonicus (*Dendrophoma*), sporulis ovoideis, 2-guttatis, 3  $\approx$  1, basidiis alterne ramosis et st. pycnid. *Hendersonia conspurcata* S. B. R.

5. **Massaria fagicola** Allesch. Sudbay. Pilze p. 190, t. II, fig. 1. — 3103

Peritheciis approximatis, majusculis, granuloso-asperatis, nigris, epidermide sæpe lacerata tectis; ascis elongatis, stipitatis, crasse tunicatis, 8-sporis, circ. 160-180  $\approx$  28-36; sporidiis initio distichis, elongatis, 2-septatis, sæpius inæquilateris, ad septum medium constrictis, primo flavo-brunneolis, dein brunneis, loculis 1-guttatis, mucro involutis, 40-50  $\approx$  16-20; paraphysibus ramulosis.

*Hab.* in ramulis dejectis Fagi pr. München Baviariæ. — Ad sunt in eadem matrice spermata cylindræ, utrinque obtusa, sæpe incurvata, hyalina, circ. 10-12  $\approx$  2-3, nec non stylosporæ fusoidæ, stipitatæ, subincurvæ, pluriseptatæ, articulis 1-guttatis, nigro-brunneis, loculis extimis plus minus hyalinis, circ. 140-160  $\approx$  12-16.

6. **Massaria cleistotheca** Harkn. New Calif. Fungi p. 24. — Peri- 3104

theciis minutis, tectis; ascis 8-sporis, piriformibus vel obovatis, crasse tunicatis, sessilibus, 48  $\approx$  30; paraphysibus agglutinatis; sporidiis hyalinis, æqualiter biconoideis, dein triseptatis, strato mucoso obvolutis, 32-40  $\approx$  8-10.



*Hab.* in caulibus emortuis *Dendromeci rigidi*, Tamalpais in California. — «Si sporidia constanter hyalina, aptius sub *Massarina* locanda».

7. **Massaria pulchra** Harkn. New Calif. Fungi p. 24, Berl. Fc. t. 15. 3105  
f. 2. — Peritheciis sparsis, tectis, nucleo albo farctis, 1-1½ mm. diam.; ascis octosporis, late clavatis, 126 ≈ 36; sporidiis fusiformi-navicularibus, irregulariter et inæqualiter biconoideis, mucro obvolutis, primum uniseptatis hyalinis, tandem brunneis, inæqualiter 3-5-pseudo-septatis, 58-60 ≈ 20-22.

*Hab.* in ramulis emortuis *Umbellulariæ californicæ*, Sausalito Californiæ.

8. **Massaria umbrosa** (Niessl) Rehm in litt. *Leptosphaeria umbrosa* 3106  
Niessl in Herb. Rabenh. Fungi Europ. n. 1934 et Rehm Ascomyc. fasc. XIV, p. 13, n. 690. — Peritheciis sub epidermide leniter rubescente nidulantibus, minutis, subglobosis, siccitate parum collapsis, atris, coriaceis, ostiolo brevi, papilliformi; ascis oblongis, clavato-oblongis v. subcylindræis, stipite brevi, abrupto, octosporis, 70-100 ≈ 11-16; sporidiis distichis, fusiformibus, utrinque obtuse rotundatis, rectis curvatisve, 4-septatis et parum constrictis, dilute virescentibus, demum subolivaceis, denique sæpe fuscis, 32-34 ≈ 7-9, mucro tenui obvolutis.

*Hab.* in caulibus exsiccatis *Spirææ Arunci*, *Gentianæ asclepiadææ*, *Lysimachicæ vulgaris* etc. in Germania.

9. **Massaria eryngiana** G. Delacroix Bull. Soc. Myc. 1890, f. IV. — 3107  
Peritheciis immersis, atris, basi applanatis, circiter 200 µ. diam., collo papillato, subconico, prominente; ascis paucis, ovoideis, leviter pedicellatis, 115 ≈ 65, octosporis, mox deliquescentibus; sporidiis primum continuis, hyalino-granulatis, multiguttatis, dein septatis, sed plerumque septo medio unico eoque bene constrictis, interdum fuscidulis, postremo fuscis, ovato-cylindræis, strato hyalino angustiore circumductis, quinqueseptatis, ad septa non vel vix constrictis, loculis unâ guttulâ magnâ præditis, 90 ≈ 25-28; paraphysibus citissime dilabentibus.

*Hab.* in foliis et caulibus exsiccatis *Eryngii campestris*, Saône et Loire Galliæ.

10. **Massaria Holoschœni** Passer. Diagn. F. N. III, n. 17. — Peri- 3108  
theciis insculptis, sparsis, vix papillatis, globoso-depressis, atris, amplis, saccato-oblongis, rectis v. curvis, basi abrupte breviterque oblique stipitatis, paraphysatis, 8-sporis, 150-175 ≈ 25-37; sporidiis bi-tristichis, fusiformibus, medio leniter constrictis, rectis, 9-11

septatis, chlorino-hyalinis, tandem fuscis, circulo hyalio circumdatis, 32-42  $\approx$  8-10 (sine circulo).

*Hab.* in caulibus fracidis Scirpi Holoschœni, socio *Lophiotremate pusillo*, Vigheffio pr. Parma Ital.

11. **Massaria olivacea** Cooke Grev. XVII, p. 92, *Sphæria olivaceo-hirta* Schwein. Amer. Bor. n. 1656, Syll. II, 4353. — Sporidia biserialia, lanceolata, 3-5-septata, fusca, 50-60  $\approx$  12-16, primitus ocellato-nucleata, medio-constricta.

12. **Massaria distincta** Cooke Grev. XVII, p. 92, *Sphæria distincta* Schwein. Amer. Bor. n. 1655, Syll. II, n. 4359. — Sporidia biserialia, 5-septata, fusca, 70-80  $\approx$  16-18, medio constricta, mucro hyalino primo obvoluta.

**LEPTOSPHÆRIA** Ces. et De Not. — Sacc. Syll. II, p. 13.

I. In Dicotyledoneis cauli-ramicolæ.

1. **Leptosphæria Doliolum** (Pers.) Ces. et De N. — Syll. II, p. 14. — 3109

Var. **dissimilis** Rehm Ascom. III. n. 888. — Ascis cylindraceutis, apice rotundatis, 8-sporis, 75-90  $\approx$  7-8; sporidiis plerumque ellipticis, rectis, obtusis, 4-ocularibus, loculo utroque apicali minore, loculo secundo multo majore, ad septa valde constrictis, vix nucleatis, melleis, 12-15  $\approx$  5-5,5, 1-stichis; paraphysibus subramosis.

*Hab.* ad caules putridos Heraclei palmati pr. lacum Zenoga alpium Transsylvan. (LOJKA). — Var. **angustispora** Pat. in Rev. Myc. 1886, p. 180: a typo differt sporulis rufescentibus, tri-septatis, minoribus rectoribusque, 16-20  $\approx$  3. In caulibus emortuis Pedicularis debilis, Yunnan Sinarum (AB. DELAVAY).

2. **Leptosphæria Longchampsii** (West.) Sacc. in Rev. Myc. 1885, 3110

*Sphæria Longchampsii* West. in March. Crypt. Belg. — Peritheciis primo tectis, dein epidermide secedente liberis, atris, minutis, globosis globosove-conoideis, ostiolo conico, longiusculo, acuto prædatis, rugosiusculis  $\frac{1}{4}$ - $\frac{1}{3}$  mm. diam.; ascis cylindraceutis, sursum rotundatis, deorsum attenuato-stipitatis, paraphysatis, octosporis, 70-80  $\approx$  10-12; sporidiis distichis, cylindraceutis, utrinque rotundatis, 4-septatis, loculo secundo leniter crassiore, luteo-viridulis, 25-30  $\approx$  4-4,5.

*Hab.* in caulibus exsiccatis Libanotis vulgaris in Belgio.

3. **Leptosphæria Eryngii** H. Fab. Sphær. Vaucl. p. 49, f. 19. — Pe. 3111

peritheciis sparsis, tectis, globosis,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. latis, epidermidem matricis nonnihil inflantibus; ostiolo erumpente, punctiformi, vix prominulo; ascis clavatis, longissime et sensim stipitatis, paraphysibus

crassis, articulatis, guttulatis, superantibus circumvallatis, 8-sporis, 150-180  $\approx$  18-21; sporidiis cylindræo-elongatis, utrinque conoideis curvulis, 3-septatis, ad septa constrictulis, hyalinis vel pallide luteis, loculis tenue granulosis, 42-50  $\approx$  8-9.

*Hab.* ad caules et petiolos exaridos Eryngii campestris, Vacluse Galliæ.

4. **Leptosphæria fœniculacea** H. Fab. Sphér. Vaocl. II, p. 61, fig, 24. 3112

— Peritheciis sparsis, globosis, cortici infossis,  $\frac{1}{4}$  mm. latis; ostiolo brevi, crassiusculo, epidermidem vix superante; ascis clavatis, paraphysatis, breve stipitatis, 8-sporis, 130-140  $\approx$  14; sporidiis subdistichis, fusoides, hyalinis vel pallidissime flavis, 4 et rarius 5-septatis, loculo secundo in plerisque, tertio in nonnullis crassiore sub eoque constrictulis, 40  $\approx$  6.

*Hab.* ad caules emortuos Fœniculi vulgaris, Vacluse Galliæ.

5. **Leptosphæria diaporthoides** Wint. Contr. Flor. Myc. Lus. VI, 3113

p. 11, n. 844. — Peritheciis omnino immersis, semper tectis, serialiter dispositis, depresso globosis, ostiolo brevi, conico, erumpente, membranaceis, atris, glabris, 360-420  $\mu$ . latis; ascis exacte clavatis, longe pedicellatis, apicem versus parum attenuatis, 100-120  $\approx$  17-18, octosporis; sporidiis oblique 2-3-stichis, elongato-fusiformibus, parum curvatis, semper triseptatis, ad septa constrictis, loculo medio parum turgidiore, terminalibus longe attenuatis, pallidissime flavidulis, 36-40  $\approx$  6-7; paraphysibus filiformibus.

*Hab.* ad caules siccos Umbelliferarum, Serra de Montinho pr. Braganca Lusitaniæ (MOLLER). — «An *Metasphæria?*».

6. **Leptosphæria dolioloides** (Auersw.) Karst. — Sacc. Syll. II, p. 44. 3114

Var. **inops** Karst. in Hedwigia 1884, p. 4. — Peritheciis sparsis sphæroideo-depressis, epidermide tectis, dein denudatis, papilla punctiformi emergente, parte inferiore filamentis tortuosis, fuliginis vel fuscis obsessis, 0,2 mm. diam.; ascis cylindræo-clavatis, 90-95  $\approx$  9-10, octosporis; sporidiis tristichis, fusoides-bacillaribus, utrinque attenuatis, levissime curvulis, spurie 2-septatis, plerumque loculo tertio protuberante, flavescentibus, 32-42  $\approx$  4-5; paraphysibus gracilibus, subramosis, guttulatis. In caulibus Anthrisci silvestris, Mustiala Fenniæ. — Var. **Cirsii** Karst. l. c.: peritheciis applanatis, demum subumbilicatis, basi filamentis brevibus, fuscis obsessis; ascis 88-105  $\approx$  9-12; sporidiis 30  $\approx$  4.

*Hab.* in caulibus Cirsii in Fennia.

7. **Leptosphæria Phytolaccæ** Cav. Mat. Lomb. p. 11, t. I, fig. 3. — 3115

Peritheciis gregariis, sub epidermide initio nidulantibus, dein liberis, globoso-depressis, demum collapsis, patelliformibus, rugosoplicatis, basi filamentis dematiaceis præditis, 300-350  $\mu$ . diam.; ostiolo prominulo, 55-65  $\mu$ . amplo; ascis cylindraceo-clavatis, apice rotundatis, membrana crassa, stipite nullo, 65-90  $\times$  9-11; sporidiis cylindraceis v. fusoides, rectis aut leniter curvulis, 3-septatis, loculis medianis crassioribus, chlorinis, extimis conicis, obtusis, pallidioribus, omnibus 2-pluriguttulatis, 28-36  $\times$  5-6,5; paraphysibus filiformibus, copiosis, ascos æquantibus.

*Hab.* in caulibus vetustis *Phytolaccæ decandræ*, Torre d'Isola pr. Pavia Italiæ. — *L. platycarpæ* affinis.

8. **Leptosphæria Lycii** Pass. in Brun. Mat. myc. Saint. p. 17. — Peritheciis sparsis v. approximatis, tectis, pustuliformibus, brunneonigris, ostiolo papillato, brunneo, erumpente, basi hyphis dematioides, numerosis, cinctis; ascis elongatis, clavatis, basi longe attenuatis, 8-sporis, 75  $\times$  10; paraphysibus filiformibus, ramosis, numerosis obvallatis; sporidiis oblique monostichis vel subdistichis, oblongo-subfusoides; 3-septatis, rectis vel subcurvis, brunneis, 12,5  $\times$  5.

*Hab.* in ramis emortuis *Lycii barbari*, Saintes Galliæ. — Differt a *L. Coniothyrio* peritheciis basi pilosis, ascis longe stipitatis, paraphysibus ramosis.

9. **Leptosphæria monotis** Rehm Ascom. Ill. n. 887. — Peritheciis sparsis, immersis, dein erumpentibus et sessilibus, globosis, 300  $\mu$ . diam., in papillulam conoideam crassam, vix perspicue pertusam, 30-40  $\times$  30, protractis, carbonaceis, nigro-fuscis; ascis clavatis, 8-sporis, 90-100  $\times$  1,5; sporidiis fusoides v. fusoides-clavatis, dimidia superiore parte latiore, rectis v. curvatis, 6-8-ocularibus, vix nucleatis, utrisque apice breviter, hyalino-appendiculatis, flavo-fuscis, 21-24  $\times$  5-6, distichis; paraphysibus teneris, subramosis.

*Hab.* ad cæspites emortuos *Saxifragarum* juxta glaciem æternam montis Ortler in Tirolia.

10. **Leptosphæria lasiosphærioides** Starb. et Grev. Bidr. Sver. Ascom. p. 7, t. I, f. 3. — Peritheciis gregariis, 2-3-4-confertis, maculas indeterminatas, epidermide longe angusteque elevata, plus minus griseas formantibus, globosis v. conoideo-globosis, demum paullum collapsis, totis contextis pilis, ad basin præsertim longis, ramosis, fuscis, obsessis, ostiolo conico, glabro epidermidem perrumpentibus, demum denudatis, 200-300  $\mu$ . diam.; ascis cylindraceo-clavatis, vix pedicellatis; paraphysibus gracillimis obvallatis, 72-85  $\times$  8-12,5;

sporidiis octonis, elongato-fusoideis, leniter curvulis v. vix inæquilateralibus, 4-septatis, primum vulgo ad septa non constrictis, loculo secundo superiore crassiore, dein saltem plerumque ad septa constrictis et loculo secundo, aliis brevioribus, inflato, guttulatis, utrinque obtusiusculis, dilutissime lutescentibus, 27-32  $\approx$  5-7.

*Hab.* in caulibus Aconiti Lycoctoni aridis, Jemtland Sueciæ (GREVILLIUS).

11. **Leptosphæria Vitalbæ** Niessl Tausch-Verein 1869. — Peritheciis 3119 ligno immersis, ostiolo brevi, recto, erumpente præditis, 1 mm. lat.; ascis clavatis, 8-sporis, 180  $\approx$  18; sporidiis fusoideis, vix acutis, rectis vel subcurvis, flavo-brunneis, 10-ocularibus, oculis 4, rarius 3 multo majoribus, subinde 1-guttatis, exappendiculatis, 36-40  $\approx$  7-8, distichis.

*Hab.* in ramis decorticatis Clematidis Vitalbæ pr. Lofer in Salzburg (NISSL).

12. **Leptosphæria Weberi** Oudem. Contr. à la Flore myc. de Nowaja Semlja p. 11, t. I, f. 7. — Peritheciis hypophyllis, minutis 100-150  $\mu$ . diam., primitus infra epidermidem absconditis, postremo papilla obtuse conica prominentibus, sparsis, nigris; ascis maturis cylindræo-clavatis, brevissime stipitatis, parum curvatis, paraphysatis, 60-70  $\approx$  14-16; sporidiis, ut videtur, tristichis, fusoideis strictis v. plerumque falcatis, utrinque obtusiusculis vel subacutis, tri-septatis, 25-37  $\approx$  5-6, junioribus dilutius, senioribus saturatius olivaceis, loculo secundo in multis ampliore.

*Hab.* in Ranunculo nivali var. sulphureo, Nowaja Semlja Maris glacialis arctici.

13. **Leptosphæria Ranunculi** Rost. Fung. Groenl. p. 558. — Peritheciis 3121 cauliculis, epidermide tectis, dein denudatis, sphæroideo-depressis; ascis crasse cylindræo-clavatis, 95-105  $\approx$  30-33, tunica crassiuscula; sporidiis octonis, distichis, oblongo-elongatis, 3-septatis, loculo secundo leviter tumido, ad septa leniter constrictis, flavis, 30-35  $\approx$  8-10.

*Hab.* in caulibus Ranunculi affinis in Groenlandia.

14. **Leptosphæria quadrisepitata** Trail Fung. Hardang p. 491. — Peritheciis 3122 sparsis, epidermide tectis, globosis,  $\frac{1}{4}$ - $\frac{1}{3}$  mm. diam., ostiolo brevi; ascis 8-sporis, subclavatis, pedicellatis, 60-80  $\approx$  8-9; sporidiis distichis v. tristichis, fusoideis, sæpe inæquilateralibus et incurvis, semper 4-septatis, loculo secundo prominente, 23-32  $\approx$  4-5, pallide brunneis, totis oculis guttulatis; paraphysibus numerosis, gracilibus, hyalinis, pluriguttulatis; ascis longioribus.

*Hab.* in caulibus emortuis Thalictri minoris, Valerianæ officinalis, Lactuæ muralis et Rumicis Acetosæ, Jor- dal et Vik Norvegiæ. — *L. fœniculaceæ* affinis.

15. **Leptosphæria Resedæ** Passer. Diagn. F. N. III, n. 18. — Peri- 3123  
theciis subgregariis, hypophlœis, tandem cortice consumpto nuda-  
tis, ligno adnatis, globosis, atris, ostiolo minuto, papillari, inter-  
dum depressis; ascis elongato-clavatis, paraphysatis, 8-sporis, 75-  
100  $\approx$  10-12; sporidiis elongato-fusiformibus, distichis, apicibus acu-  
minatis, triseptatis, loculis æqualibus, 30-35  $\approx$  5, primo hyalinis,  
tandem flavidis.

*Hab.* in caulibus fracidis Resedæ luteæ in agro parmensi Italiae. — *Leptosphæriæ Bocconicæ* videtur affinis, sed sporidiis nunquam fuscis visis; ceterum hujus descriptio nimis contracta ju-  
diciū difficile reddit.

16. **Leptosphæria Poterii** Passer. Diagn. F. N. IV, n. 13. — Peri- 3124  
theciis sparsis, tectis, ostiolo compressiusculo erumpentibus; ascis  
elongato-clavatis; paraphysibus tenuibus stipatis, basi longe atte-  
nuatis, 8-sporis, 50-70  $\approx$  6-7; sporidiis fusiformibus, apicibus acu-  
tis, 3-4-septatis, lutescentibus, 13  $\approx$  2.

*Hab.* in caulibus fracidis Poterii Sanguisorbæ sociâ Rha-  
bdosporâ, Parma Italiae borealis.

17. **Leptosphæria subcæspitosa** Cooke et Harkn. in Grevillea XIV, 3125  
p. 10. — Erumpens; peritheciis subglobosis, atris, subcæspitosis,  
4-8 in cæspitulos congestis vel in lineas elongatas dispositis; ostio-  
lis cylindricis, elongatis, emergentibus; ascis clavatis, octosporis;  
sporidiis lanceolatis, medio constrictis, quinqueseptatis, fuscis 35-  
38  $\approx$  7.

*Hab.* in caule Geranii in California (HARKNESS).

18. **Leptosphæria Delavayi** Pat. in Rev. Myc. 1886, p. 82. — Pe- 3126  
ritheciis  $\frac{1}{4}$ - $\frac{1}{2}$  mm. diam., concavis, nigris, ostiolo non papillato,  
primum epidermide tectis, demum denudatis; ascis 70-90  $\approx$  9-12,  
8-sporis; sporidiis elongatis, fusiformibus, 3-4-septatis, pallide brun-  
neo-fuligineis, 40-45  $\approx$  6; paraphysibus filiformibus, ascorum lon-  
gitudinem æquantibus.

*Hab.* in caulibus emortuis Primulæ Sikkimensis Likiang  
Yunnan Sinarum (AB. DELAVAY).

19. **Leptosphæria multiseptata** Winter. — Sacc. Syll. II, Add. p. LVII, 3127  
var. *alpina* Rehm in Hedwigia 1885, p. 235. — Peritheciis grega-  
riis vel sparsis, primitus sub epidermide elevata nidulantibus eam-  
que papillula perforantibus, demum liberis, subglobosis, papillula

minuta, haud perspicue perforatis, in parenchyma fuscum contextis, atris, circ. 0,3 mm. diam., rarissime basi hyphis fuscis, parvulis cinctis; ascis clavatis, 8-sporis, circ. 109  $\approx$  12-14; sporidiis 3-stichis, flavidulis, fusiformibus, subobtusis, rectis, 11-(rarissime 12) cellularibus, cellula quinta semper latiore, minus cellula sexta, quaque plerumque nucleolis nonnullis, parvulis prædita, ad septa subconstrictis, 50  $\approx$  5; paraphysibus filiformibus.

*Hab.* ad caules siccos Epilobii Fleischeri juxta glaciem æternam montis Ortler prope Sulden in Tirolia (Dr. REHM).

20. **Leptosphæria Acanthi** Pat. in Rev. Myc. 1886, p. 181. — Peri- 3128  
theciis sparsis, primo epidermide tectis, dein liberis, applanatis, ostiolo vix protuberante; ascis cylindraceutis, breve stipitatis, 106-110  $\approx$  9-10; paraphysibus filiformibus, fere gelatinosis, cinctis; sporidiis monostichis, fusiformibus, rectis, demum brunneo-rufis, triseptatis, ad septa parum constrictis, 20-23  $\approx$  6-7.

*Hab.* in caulibus emortuis Adathodæ (an potius Acanthi?) Yunnan Sinarum (Ab. DELAVAY).

21. **Leptosphæria oreophiloides** Sacc. et Penz. Syll. II, p. 20, — Var. 3129  
**Scrophulariæ** Karst. in Hedw. 1883, n. 12, pag. 2. Rev. atque Synop. Ascom. fenn. p. 51. — Ascis circ. 75  $\approx$  9; sporidiis octonis, elongato-fusoideis, rectis vel leviter curvulis, subinde loculo secundo superiore levissime crassiore, 30-40  $\approx$  4; paraphysibus eguttulatis.

*Hab.* in caulibus Scrophulariæ nodosæ emortuis ad Mu- stiala Fenniæ.

22. **Leptosphæria eutypoides** Peck in 38 Rep. St. Mus. p. 105. — 3130  
Peritheciis numerosis, gregariis, 250-280  $\mu$ . diam. hemisphæricis vel depressis, primum epidermide tectis, demum denudatis, nigris, ostiolis papilliformibus; ascis clavatis vel subcylindraceutis, 100-110  $\approx$  12-16; sporidiis ovoideis vel oblongis, rectis vel leniter curvulis, triseptatis, plerumque ad septa constrictis, luteo-brunneis, 20-23  $\approx$  8-10; paraphysibus filiformibus.

*Hab.* in caule emortuo Chenopodii albi, Albany Amer bor.

23. **Leptosphæria Lecanora** H. Fab. Sphér. Vaubl. II, p. 49. f. 20. — 3131  
Peritheciis sparsis, initio epidermide tectis, dein superficialibus et vertice collapsis patellariformibus,  $\frac{1}{4}$  mm. vel minus latis; ostiolo minutissimo; ascis cylindraceuto-clavatis, breve stipitatis, 8-sporis, 70-100  $\approx$  10-16; paraphysibus raris vel nullis; sporidiis submonostichis, pallide melleis, oblongo-ovatis, 3-septatis, utrinque obtusis 18-24  $\approx$  8-9.

*Hab.* ad caules exsiccatos Salsolæ Kali, Vaocluse Galliæ.

24. **Leptosphæria Oxyriæ** Rost. Fung. Groenl. p. 559. — Peritheciis 3132  
gregariis, fuscis, sphæroideo-depressis; ascis crasse cylindræo-  
clavatis, pedicellatis, 50-52  $\approx$  12-14; sporidiis distichis, fusoidæo-  
oblongatis, 3-septatis, ad septa constrictis, flavis.

*Hab.* ad caules exsiccatos Oxyriæ didymæ in Groenlandia.

25. **Leptosphæria serbica** Schroet Hedw. 1890, p. 59. — Peritheciis 3133  
sparsis, epidermide tectis, globosis, gregariis, circ. 300  $\mu$ . diam.,  
ostiolo applanato præditis; ascis numerosis, clavatis, breve stipita-  
tis, 60-70  $\approx$  10-12; sporidiis octonis, distichis, ovato-fusoidæis, uno  
latere applanatis, 4-ocularibus, utrinque rotundatis, exosporio fla-  
vo-brunneo, 16-18  $\approx$  6-6,5.

*Hab.* in caulibus Camphorosmæ monspeliacæ pr. Pro-  
kuplje Serbiæ.

26. **Leptosphæria cucurbitarioides** H. Fab. Sphér. Vaubl. II, p. 50, 3134  
fig. 51. — Peritheciis dense connatis, primum tectis, dein nudis,  
acervulos per epidermidem fissam erumpentes efformantibus, glo-  
boso-mammæformibus,  $\frac{1}{2}$ - $\frac{2}{3}$  mm. latis, ostiolo brevi, conoideo,  
crassiusculo; ascis clavatis, paraphysatis, longe stipitatis, 8-sporis,  
90-100  $\mu$ . long., parte sporifera 60  $\approx$  10; sporidiis subdistichis, ob-  
longis, rectis v. curvulis, utrinque obtusis, 3-septatis, ad septa con-  
strictulis, pallide luteis, 15-18  $\approx$  6-7.

*Hab.* ad caules exaridos Dorycnii suffruticosi, Vaocluse  
Galliæ. — Habitus fere *Cucurbitariæ*.

27. **Leptosphæria pratensis** Sacc. et Br. in Rev. Myc. 1885. — Pe- 3135  
ritheciis numerosis, innatis, globulosis, parum depressis, corticulis,  
 $\frac{1}{4}$ - $\frac{1}{3}$  mm. diam., ostiolo obtuso, epidermidem vix nigrefactam per-  
forante; ascis cylindræo-clavatis, breviter stipitatis, octosporis,  
68-112  $\approx$  8-12; paraphysibus filiformibus; sporidiis distichis v. sub-  
distichis, fusiformibus, obtusiusculis, primum hyalinis dein luteolis,  
3-septatis, septis leniter constrictis, rectis vel curvulis, 28-32  $\approx$   
5-6, granuloso-guttulatis.

*Hab.* in caulibus exsiccatis Medicaginis sativæ, Troyes  
Galliæ.

28. **Leptosphæria multiseptata** Wint. Hedw. 1872, p. 148. — Peri- 3136  
theciis sparsis, epidermide tectis demum erumpentibus, globosis,  
nigris, rugulosis, pilis pallidis, repentibus cinctis, in collum cras-  
sum, conicum, apice obtusum, perithecium dimidium æquans at-  
tenuatis, 351  $\approx$  270; ascis clavato-cylindræis, sessilibus, 8-sporis,  
117  $\approx$  11; paraphysibus filiformibus, simplicibus, continuis multi-  
guttulatis, asco dimidio brevioribus; sporidiis longissime fusiformi-



bus, utrinque rotundatis, 8-11-septatis, guttulatis, ad septa constrictis, pallide luteolis, 50-65  $\approx$  5.

*Hab.* ad caules aridos *Lathyri silvestris* prope Oederan, Saxonia (G. WINTER).

29. **Leptosphæria Lathyri** Fautr. Rev. Myc. 1891, p. 8. — Peritheciis sparsis v. approximatis, majusculis, ostiolo elongato erumpentibus; sporidiis olivascentibus, cylindræis, attenuatis, rectis vel subcurvulis, 8-11-septatis, ad septum secundum v. tertium constrictis, 50-60  $\approx$  4.

*Hab.* in *Lathyro silvestri*, Noidan, Côte-d'Or Galliæ (F. FAUTREY).

30. **Leptosphæria hæmatites** (Rob.) Niessl. Cfr. Hedw. 1883, p. 10. Sic nominanda *Didymella hæmatites* (Rob.) Sacc. Syll. p. 553 (*Sphærella hæmatites* Cooke Bot. Journ. 1883, pag. 109), nam sporidia matura 24-27  $\approx$  5, 3-septata, flavida.

- 31 **Leptosphæria Sarraziniana** Sacc. et Roum. in Rev. Myc. 1884, 3138 tab. LV, f. 2. — Peritheciis innato-erumpentibus, globoso-papillatis, mox collapsio-umbilicatis; ascis clavato-fusoideis, 85-95  $\approx$  7-10, octosporis; sporidiis distichis, fusoideis, 3-septatis leniter constrictis, obtusiusculis, guttulatis, olivaceis, 18-21  $\approx$  5-6.

*Hab.* in nodis Caryophyllaceæ cujusdam, Senlis Galliæ. — Ab affinis *L. pyrenopezizoide* differt sporidiis rectis, crassioribus, loculo secundo vix inflato etc.

32. **Leptosphæria Stellaris** Rich. Cat. Champ. Marn. n. 1329. — Peritheciis sphæricis, nigris, subapplanatis, sparsis; ascis clavatis; paraphysibus filiformibus, longissimis; sporidiis fusoideis, elongatis, acutis, 3-septatis, pallide luteolis.

*Hab.* in caulibus vetustis *Stellaris* mediæ, St. Amand, Marne Galliæ.

33. **Leptosphæria VahlII** Rost. Fungi Groenl. p. 557. — Hyphis dilute fuscis, articulis brevibus inflatis; peritheciis sphæroideo-depressis, vertice umbilicatis, papillatis; ascis numerosis, elongato-clavatis, longe pedicellatis, 90-100  $\approx$  11-13; paraphysibus copiosis, filiformibus; sporidiis distichis, cymbiformi-fusoideis, fuscis, 5-septatis 20-25  $\approx$  6-7, loculis 1-2-guttulatis.

*Hab.* ad caules exsiccatos *Melandrii triflori* in Groenlandia.

34. **Leptosphæria agnita** Sacc. Syll. II, p. 40. — Var. **ChrysanthemI** 3141 Berl. in Soc. Ven. Trent. 1885, tab. XI, fig. 2. — Peritheciis minutis 0,3-0,4 mm. diam., sæpe complanatis; ascis crassioribus, 70-90  $\approx$  12-14; sporidiis tristichis, typice 5-septatis, 45-48  $\approx$  6.

*Hab.* in caulibus siccis *Chrysanthemi corymbosi*, Eichenwald prope Sugenheim Franconiæ (REHM). — Var. **major** Berl. in Soc. Ven. Trent. 1685, tab. XI, fig. 4: a typo differt peritheciis majoribus,  $\frac{1}{2}$  mm. diam. et distincte papillatis. In caule emortuo *Chærophylli temuli* in Gallia (MORTIER). — Var. **Erigerontis** Berl. in Soc. Ven. Trent. 1885, tab. XI, fig. 3: ascis majoribus 82-90  $\approx$  15; sporidiis tristichis valde elongatis, 55-50  $\approx$  4-5, demum 6-septatis, loculo tertio superiore non vel vix turgidiore, utrinque sensim attenuatis. In caule sicco *Erigerontis canadensis* in Amer. bor. (ELLIS). — Var. **ambigua** Berl. in Soc. Ven. Trent. 1885, tab. XI, fig. 5: peritheciis epipermide velatis, obtuse breviterque papillatis, atris, nitidis,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., globo-so-depressis; ascis cylindraceo-clavatis, 80-110  $\approx$  12; sporidiis irregulariter tristichis vel distichis, leniter biconoideis, loculo tertio superiore parum crassiore, utrinque obtusis, 6-septatis, 35-48  $\approx$  6, flaveolis. In caule *Eupatorii cannabini* in Germania. — Var. **Bupleuri** Sacc. Myc. Sib. p. 15, f. 11: peritheciis obtusiusculis,  $\frac{1}{3}$  mm. latis; ascis fusoido-clavatis substipitatis, 75-80  $\approx$  9-10; sporidiis fusoidis, utrinque acutis 5-septatis, 30-35  $\approx$  4-5, ad septa levissime constrictis, subolivaceis, loculis subinde senio secedentibus. In caulibus emortuis *Bupleuri falcati* pr. Minussinsk Sibiriae (MARTIANOFF).

35. **Leptosphæria purpurea** Rehm Ascom. Lojk. n. 69, p. 54. — Pe- 3142  
 ritheciis gregariis, primitus epidermide tectis, dein ea secedente liberis, in ligni longe lateque purpureo-tincti superficie insidentibus, hemisphæricis, integris, papilla minutissima pertusis, glabris, atris, c. 0,3 mm. diam., hyphis creberrimis, longiusculis, fuscis, basi cinctis; ascis clavatis, 8-sporis, 70  $\approx$  8; sporidiis fusoido-elongatis plerumque rectis, 4-cellularibus, cellula secunda multo latiori, cellulis nucleolo magno præditis, melleis, 21  $\approx$  3-3,5, distichis; paraphysibus ramosis.

*Hab.* ad caules siccos *Artemisiæ vulgaris* in horto Eszterházyano, Kaposvár Hungariæ (LOJKA).

36. **Leptosphæria ophioboloides** Sacc. in Misc. Myc. I, p. 23. — Pe- 3143  
 ritheciis gregariis, epidermide velatis, globosis,  $\frac{1}{4}$ - $\frac{1}{2}$  mm. diam., atris, ostiolo papillato erumpente; contextu parenchymatico densiusculo; ascis clavatis, breve stipitatis, apice obtusiusculis, 120-130  $\approx$  14, parce paraphysatis, octosporis; sporidiis subtristichis, bacillaribus, utrinque obtuse rotundatis, 8-10-septatis, loculo secundo

vel tertio paullo crassiore, 50-55  $\approx$  4-4,5, olivaceo-melleis, loculis sæpius minute biguttulatis.

*Hab.* ad caules Tragopogonis, ut videtur, in silvis pr. Neuchâtel Helvetiæ (MORTIER). — Sporidia subinde bina apicibus connexa, interdum in loculos secedentia, hinc ophioboloidea.

37. **Leptosphæria derasa** (B. et Br.) Thüm. — Sacc. Syll. II, p. 41. 3144

— Var. **alpestris** Rehm in Hedwigia 1885, pag. 235. — Peritheciis gregariis, primitus sub epidermide caulium nidulantibus eamque papillula protuberante perforantibus, demum liberis, sessilibus globosis, in papillulam rotundam, brevem protractis, haud perspicue perforatis, atris, in parenchyma fusco-nigrum contextis, circ. 0,3-5 mm. diam., hyphis plus minusve longis, circ. 4  $\mu$ . cr., undulatis, septatis, fuscis, crebris obsessis; ascis clavatis, 8-sporis, 90-120  $\approx$  12; sporidiis 2-3-stichis, rectis vel subcurvatis, fusiformibus, subacutis, plerumque 9-cellularibus, itaque cellula quarta latiore, demum 10, rarissime 11-cellularibus et cellula quinta latissima, quaque nucleolis 2-parvulis et sporidiis 10-cellularibus utraque apice appendicula filiformi, curvata, brevi instructis, flavidulis, 36-45  $\approx$  4-5; paraphysibus filiformibus, nucleolatis.

*Hab.* ad caules siccos Compositæ? ad muros viæ jugi Stelvi prope Franzenshöhe in Tirolia (Dr. REHM).

38. **Leptosphæria carduina** Passer. Diagn. F. N. III, n. 19. — Peri- 3145

theciis sparsis, pusillis, globosis, epidermide rupta cinctis, atris, basi filis dematiaceis parcis præditis, contextu minute celluloso, fuligineo; ascis paraphysatis, elongato-clavatis, inferne breviter attenuato-stipitatis, 8-sporis, 68-75  $\approx$  10-12; sporidiis distichis, elongato-ellipticis, utrinque rotundatis, 3-5-septatis, 15-18  $\approx$  5, loculo uno alterove sæpe longitudinaliter diviso, e flavo fuscidulis.

*Hab.* in bracteis calathidum dejectarum Cardui nutantis, Vigheffio pr. Parma Italiae.

39. **Leptosphæria bella** Passer. Diagn. F. N., I, n. 46. — Peritheciis 3146

subgregariis v. sparsis, punctiformibus, atris; ascis oblongo-clavatis, paraphysatis, 8-sporis, 45-65  $\approx$  10-12; sporidiis distichis, oblongo-ellipticis, triseptatis, non v. vix constrictis, loculo pænultimo interdum paullo ampliore, flavis, 12-15  $\approx$  5.

*Hab.* in ramulis fracidis Chondrillæ junceæ, Vigheffio pr. Parma Italiae.

40. **Leptosphæria bicuspidata** (Cooke et Hark.) Berl. et Vogl. Add. 3147

Syll. p. 133, *Sphæria bicuspidata* Cooke et Hark. in Grevillea XIII, p. 19. — Sparsa, tecta; peritheciis innatis, subprominulis,

globosis, atris, ostiolo brevi; ascis clavatis, octosporis; sporidiis fusiformibus, triseptatis, constrictis, fuscis, utrinque hyalino-cuspidatis,  $25 \approx 8$  (sine cuspidibus).

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

41. **Leptosphæria Galiorum** Sacc. Syll. II, p. 22. — Var. **Lampsanæ** Sacc. et Br. in Rev. Myc. 1885. — Peritheciis sparsis, globosis, epidermide tectis,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; ostiolis papillatis, erumpentibus; ascis clavatis, sursum attenuatis, deorsum longe stipitatis, octosporis,  $64-69 \approx 14-16$  p. sp.; paraphysibus filiformibus, guttulatis; sporidiis sursum distichis basi monostichis, ovoideo-oblongis, obtusis, 2-septatis, septis constrictis, brunneis,  $20-24 \approx 7$ , rectis vel leniter curvulis. — In caulibus Lampsanæ communis, Troyes Galliæ.

42. **Leptosphæria corynospora** Berl. et Bres. Micr. Trid. p. 32, t. III, 3148 f. 4. — Peritheciis gregariis, globoso-conicis v. parum depressis, in ostiolum papillatum, nitidum, distinctum desinentibus,  $300-350 \mu$ . diam., atris, epidermide pustulatim inflata tectis; ascis eximie clavatis, in stipitem longum abeuntibus; paraphysibus filiformibus, guttulatis cinctis,  $110-120 \approx 10-12$ ; sporidiis octonis, stipate distichis v. inferne 1-stichis, clavulatis, 3-septatis, parte superiori crassiore, inferiore tenuiori, fere caudiformi, utrinque, sed inferne magis, acutiusculis, pallide virescentibus, loculo secundo inflato, polaribus pallidioribus,  $24-26 \approx 6$ , guttuligeris.

*Hab.* in caulibus emortuis Cirsii lanceolati pr. Trento.

43. **Leptosphæria dubia** Sacc. et Paol. in Sacc. Myc. Sibir. pag. 14, 3149 fig. 13. — Peritheciis laxè gregariis, epidermide velatis, globoso-depressis, breve papillatis, dein umbilicatis, nigris,  $\frac{1}{4}$  mm. diam.; ascis fusoidè-clavatis, utrinque obtusulis, subsessilibus,  $75-90 \approx 10$ , obsolete paraphysatis, octosporis; sporidiis 2-3-stichis, recte fusoidèis, utrinque obtusulis, triseptatis non vel vix constrictis, pallide fuliginèis,  $25-30 \approx 3-4,5$ .

*Hab.* in caule Valerianæ dubiæ in lapidosis pr. Minussinsk Sibiricæ (MARTIANOFF).

44. **Leptosphæria Morthieriana** Sacc. Misc. Myc. I, p. 23. — Peri- 3150 theciis laxè gregariis, parenchymate immersis, globulosis, duriusculis, atris,  $\frac{1}{6}$  mm. diam., ostiolo conoideo, acuto, emergente; ascis teretibus, crassis, brevissime abruptè stipitatis,  $140-150 \approx 35-37$ , paraphysatis, apice subrotundatis, octosporis; sporidiis distichis, oblongo-fusoidèis, rectis, utrinque rotundatis,  $40-45 \approx 13-14$ , 5-septatis, vix constrictis, lutescentibus.

*Hab.* in foliis Succisæ putrescentibus in palude torfacea les Ponts prope Neuchâtel Helvetiæ (MORTIER).

45. **Leptosphæria Molluginis** Passer. Diagn. F. N. IV, p. 5. — Pe- 3151  
 ritheciis sparsis, tectis, erumpentibus, subglobosis, contextu minute celluloso, fuligineo, ostiolo pertuso; ascis clavatis, nodulo basilari sessilibus, paraphysatis, 8-sporis, 60-65  $\approx$  8-10; sporidiis distichis v. oblique monostichis, fusiformibus, utrinque acutis, rectis, triseptatis, rarissime 4-septatis, loculo subultimo vix tumidulo, 15  $\approx$  5, melleis v. flavidulis.

*Hab.* in caule sicco Galii Molluginis, Vigheffio pr. Parma Italiæ. — Sporiarum parvitate et colore ab aliis congeneribus gallicolis distinguenda.

46. **Leptosphæria Eranthemii** Pat. in Rev. Myc. 1886, pag. 181. — 3152  
 Peritheciis sparsis epidermide tectis, applanatis, orbicularibus, ostiolo conoideo donatis; ascis 63-70  $\approx$  8-10, paraphysibus filiformibus obvallatis; sporidiis fusiformibus, rectis vel parum curvatis, fuliginis, 16  $\approx$  5, quinqueseptatis, raro 3-4-septatis ad septa, præcipue ad medium, constrictis.

*Hab.* in pedunculis floralibus Eranthemii, Yunnan Sinarum (AB. DELAVAY). — Sporidia sæpe protoplasmate longitudinaliter diviso, muriformia apparent.

47. **Leptosphæria Plumbaginis** Pat. in Rev. Myc. 1886, p. 181. — 3153  
 Peritheciis nigris, sparsis, globulosis, ostiolo vix emergente præditis; ascis cylindræis, breve pedicellatis, 110  $\approx$  15, paraphysibus filiformibus, crebre septatis cinctis; sporidiis primo linearibus, hyalinis, medio uniseptatis, dein brunneo-luteis, 8-12-septatis, medio vix constrictis, 50  $\approx$  6-7.

*Hab.* in caulibus emortuis Plumbaginis, Yunnan Sinarum (AB. DELAVAY).

48. **Leptosphæria fallaciosa** Berl. Exc. Frioul p. 10, t. 9, fig. 5. — 3154  
 Peritheciis sparsis, primo epidermide tectis, dein ea secedente subliberis, globoso-depressis, tandem umbilicatis, ostiolo papillato, minuto præditis, 200-300  $\mu$ . diam., nigris, nitentibus; ascis oblongo-clavatis, sæpe stipite curvulo, brevi, noduloso præditis, 8-sporis, 70  $\approx$  14, paraphysatis; sporidiis subtristichis, cylindræis, fere asci longitudinem æquantibus, constanter 7-septatis, loculo quarto superiore incrassato, 47-50  $\approx$  4-5, rectis v. curvulis, initio guttulatis, utrinque rotundatis, flavescenti-viridulis.

*Hab.* in caulibus emortuis Satureiæ hortensis Osoppo in agro

Forojuliensi Ital. bor. — *L. agnitæ*, *L. acutæ*, *L. petiolicolæ* et *L. derasæ* affinis.

49. **Leptosphæria Salviæ** Passer. Diagn. F. N. III, n. 20. — Peri- 3155  
 theciis hypophlœis, subgregariis, globosis, parce setulosis, ostiolo  
 cylindrico corticem perforante; ascis paraphysatis, clavatis, inferne  
 longe attenuatis, 8-sporis, 87-125  $\approx$  12-14; sporidiis fusiformibus,  
 9-11-septatis, subdistichis, 45  $\approx$  6, flavidulis, loculo altero ex in-  
 termediis subtumido.

*Hab.* in ramis siccis *Salviæ officinalis*, interdum socio  
*Ophiobolo homosporo* in horto botanico parmensi Italiae.

50. **Leptosphæria Brunellæ** Ell. et Ev. Proc. Phil. 1890, p. 237. — 3156  
 Peritheciis sparsis, minutis,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. diam., epidermide subele-  
 vata, ostiolo papilliformi pertusa tectis; ascis clavato-cylindræis,  
 75-80  $\approx$  10-12, subsessilibus, filiformi-paraphysatis; sporidiis disti-  
 chis, fusoideis, subincurvis, pallide flavido-brunneis, 3-septatis, lo-  
 culo subultimo inflato, 22-30  $\approx$  4.

*Hab.* in caulibus emortuis *Brunellæ vulgaris*, London Ca-  
 nada Amer. bor. (DEARNESS). — Differt a *L. pyrenopezizoidi* pe-  
 ritheciis non collabentibus, a *L. Parietaricæ* sporidiis pallidioribus.  
 Adsunt socia perithecia spermogonica (*Rhabdospora*), intus pal-  
 lida, majuscula, sporulis acicularibus 40-55  $\approx$  2-2,5 foeta, nec non  
*Phoma* quædam sporulis 4  $\approx$  1,5.

51. **Leptosphæria Steironematis** Ell. et Ev. Proc. Phil. 1890, p. 237. 3157  
 — Peritheciis gregariis, subepidermicis, conico-hemisphæricis, 0,5  
 mm. diam., epidermidem ostiolo conico pertusam elevantibus; ascis  
 clavato-cylindræis, 75-100  $\approx$  15-20, copiosis; sporidiis distichis,  
 oblongis, 3-septatis, ad septa interdum subconstrictis, brunneis,  
 utrinque obtusis, plerumque subincurvis, 15-22  $\approx$  7-8.

*Hab.* in caulibus *Steironematis ciliati*, London, Canada  
 Amer. bor. (J. DEARNESS).

52. **Leptosphæria demissa** Niessl Contr. Fl. Myc. Lus. pag. 13. — 3158  
 Peritheciis sparsis, tectis, depresse hemisphæricis seu collapsis, mi-  
 nutis, 0,2 mm. diam., atris, glabris, coriaceis, ostiolo brevi conico,  
 fimbriato, ut in *L. modesta*, erumpente; ascis clavatis, in stipitem  
 brevem attenuatis, 8-sporis; sporidiis distichis, fusiformibus, re-  
 ctis vel curvatis, utrinque obtusiusculis, 4-cellularibus vel 3-septa-  
 tis, loculo secundo parum inflato, dilute lutescentibus, subhyalinis,  
 15-19  $\approx$  3-3 $\frac{1}{2}$ ; paraphysibus ascorum longitudine, tenuibus, ramosis.

*Hab.* ad caules aridos *Vincæ mediæ*, Coimbra Lusitaniæ. —  
 Sporidiorum forma et magnitudine a *L. modesta* distincte diversa.

53. **Leptosphæria euphorbicola** Brun. Champ. ajout. Saint. p. 244. 3159

— Peritheciis sparsis v. approximatis, globosis, nigris, tectis, dein erumpentibus, ostiolo papillato; ascis cylindraceo-clavatis, 90-100  $\approx$  10, filiformi-paraphysatis; sporidiis octonis, distichis, oblongo-fusoideis, rectis v. subincurvis, flavis, 5-7-septatis, ad septa subconstrictis, 26-34  $\approx$  6-7.

*Hab.* in caulibus emortuis Euphorbiæ pilosæ, Saint-Sever pr. Saintes Galliæ.

54. **Leptosphæria brachysperma** Berl. Exc. Frioul p. 8, t. 9, f. 4. — 3160

Peritheciis sparsis, minutis, 150  $\mu$ . diam., epidermide tectis, globoso-conoideis, ostiolo minute papillato, pertuso vix exsertis; ascis rectis v. curvis, in stipitem brevissimum, nodulosum abeuntibus, sursum latiuscule rotundatis, 60-70  $\approx$  12-14; paraphysibus filiformibus; sporidiis distichis v. basi oblique monostichis, ovoideis v. oblongis, 3-septatis, non constrictis, utrinque rotundatis, loculo secundo superiore parum crassiore, 14-16  $\approx$  6-8, amœne flavo-olivascensibus.

*Hab.* in caulibus herbaceis emortuis, Osoppo in agro Foroju-liensi Ital. bor. — *L. galiicola* var. *brachysporæ* et *L. Sarazianæ* affinis.

55. **Leptosphæria Winteri** Niessl in Hedw. 1883, p. 1. — Peritheciis 3161

sparsis, globosis, minutis, circa 0,14 mm. diam., submembranaceis, atris, glabris, tectis, vertice erumpentibus, ostiolo crasso, cylindraceo, perithecii diametrum æquante; ascis oblongis, demum elongatis, subsessilibus, 90-120  $\approx$  25-34, 8-sporis; sporidiis faretis 2-3-stichis, plerumque parum curvatis, utrinque late rotundatis, 6-cellularibus seu 5-septatis, loculo secundo inflato, 36-44  $\approx$  10-12, lutescentibus; paraphysibus paucis, vix superantibus ramulosis.

*Hab.* ad folia arida Plantaginis alpinæ, Albulapass, prope Weissenstein Rhætia.

56. **Leptosphæria Cynops** H. Fab. Sphér. Vaucl. II, p. 50, fig. 23. -- 3162

Peritheciis parce gregariis aliis corticicolis et infixis, tectis, aliis lignicolis et superficialibus, nudis, conoideo-mastoideis,  $\frac{1}{3}$  mm. latis; ostiolo brevi, papillato, nitido; ascis clavatis, abrupte et breve stipitatis, paraphysatis, 8-sporis, 100-120  $\approx$  15; sporidiis subdistichis, fusiformibus, 5-septatis, medio vix vel non constrictis, pallide flavis; loculis 1-guttulatis, 50  $\approx$  6.

*Hab.* ad caules emortuos Plantaginis Cynopsis, Vaucluse Galliæ.

57. **Leptosphæria vagabunda** Sacc. — Syll. II, p. 31. — \*alvariensis 3163

Sterb. Ascom. Oeland. p. 13, f. 4. — Peritheciis sparsis, conico-sphæroideis, ostiolo papillato, paullum prominulo v. conoideo-cylindræo, interdum lateraliter compresso, altitudine peritheciorum dimidio breviorè præditis, 200-250  $\mu$ . diam.; ascis clavatis, vix pedicellatis, 80-100  $\approx$  20-26; sporidiis distichis, primitus hyalinis, simplicibus, multiguttulatis, dein æque hyalinis, medio constricto-uniseptatis, sensim olivascentibus, 4-magniguttulatis, demum 3-septatis, fuligineo-fuscis, oculis externis dilutioribus, 20-30  $\approx$  10-12; paraphysibus numerosissimis, gracilibus, agglutinatis.

*Hab.* ad rhizomata, terrâ non tecta, Plantaginis maritimæ var. gentilis in Allvaren pr. Næsby Oelandiæ. — Var. **Dulcamaræ** Karst. Symb. Fenn. XXIX, pag. 34: sporidiis 3-septatis, luteolo-fuscescentibus, 14-19  $\approx$  5-6. In ramis emortuis Solani Dulcamaræ prope oppidum Jakobstad Fenniæ.

58. **Leptosphæria obesula** Sacc. Syll. II, p. 15, Mout. Ascom. Liég. II, p. 8, t. I, f. 12. — In diagnosi Syll. l. c. corrige: ascis obclavatis, apice attenuato-rotundatis, basi brevissime crasse stipitatis, mox omnino sessilibus et late rotundatis, 45-60  $\approx$  20-30; paraphysibus obsoletis. Nascitur quoque in Angelica, Spiræa, Acere Pseudoplatano, Beaufays, Forêt Belgii (MOUTON).

59. **Leptosphæria brasiliensis** Speg. F. Puigg. n. 280. — Maculis 3164 amphigenis, subdeterminatis, 5-15 mm. diam., fusco-vel cinerescenti-arescentibus; peritheciis innato-erumpentibus, confertiusculis, epiphyllis, globoso-conoideis, 150-180  $\mu$ . diam., atris, levibus; ascis mox diffluentibus; sporidiis triseptatis, subfusiformibus, olivaceis, 25-30  $\approx$  6-8.

*Hab.* ad folia viva Xanthoxyleæ vel Anacardiaceæ cujusdam in dumetis pr. Apiahy. — An *Hendersonia*?

60. **Leptosphæria odora** (Cooke et Hark.) Berl. et Vogl. Add. Syll. 3165 p. 137, *Sphæria odora* Cooke et Hark. in Grev. XIII, p. 19. — Tecta, subsparsa; peritheciis mediis, globosis, atris, in cortice nidulantibus, epidermide convexa tectis, ostiolo punctiformi; ascis clavatis, octosporis; sporidiis lanceolatis, biseriatis, primum uniseptatis, demum triseptatis, hyalino-luteolis, 22-25  $\approx$  5.

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

61. **Leptosphæria Ceanothi** (Cooke et Hark.) Berl. et Vogl. Add. Syll. 3166 p. 136, *Sphæria Ceanothi* Cooke et Hark. in Grev. XIII, p. 19. — Gregaria, tecta; peritheciis minutis, subglobosis, epidermide velatis, ostiolo brevi, punctiformi; ascis breviter clavatis, octosporis; sporidiis sublanceolatis, triseptatis, hyalino-luteolis, 16-18  $\approx$  4,5.



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

62. **Leptosphæria rubro-tincta** E. et E. in Journ. of Myc. I, pag. 150. 3167

— Peritheciis sparsis, membranaceis, depresso globosis, 200–250  $\mu$ . diam., apice perforatis, primo tectis dein leniter prominentibus et epidermidem, pallide rufo-sanguineo-maculatam, vix perforantibus; ascis clavato-cylindræis, sessilibus, 100–110  $\approx$  10–13, paraphysibus cinctis; sporidiis biserialis, cylindræis, rectis vel leniter curvatis, luteolis, 8–10-septatis, loculo medio leniter inflato, 25–40  $\approx$  4–5, subobtusis.

*Hab.* in ramis *Staphyleæ trifoliæ* in America boreali.

63. **Leptosphæria cassiæcola** E. et E. in Journ. of Myc. 1886, p. 41. 3168

— Peritheciis gregariis, minutis,  $\frac{1}{8}$ – $\frac{1}{6}$  mm. diam., epidermide nigrescente, minute pustulatim inflata, demum ostiolo papilliformi perforata, tectis; ascis 70–75  $\approx$  8–10; sporidiis distichis, fusiformibus, leniter curvulis, 5-septatis, flavo-brunneis, non constrictis.

*Hab.* in pedunculis emortuis *Cassiæ*, Houston Texas Americæ borealis.

64. **Leptosphæria consimilis** E. et E. in Journ. of Myc. 1886, p. 41. 3169

— Peritheciis sparsis, carbonaceo-coriaceis,  $\frac{1}{3}$  mm. diam., primo tectis fibrasque ligni vel corticis minute pustulatim elevantibus, ostiolo papilliformi demum erumpentibus; ascis subcylindræis, 80–100  $\approx$  15–20, copiose paraphysatis, octosporis; sporidiis subdistichis, cylindræo-fusiformibus, 3-septatis, primum subhyalinis, dein luteis, demum obscure brunneis, 7-septatis, non vel vix ad septa constrictis, 28–35  $\approx$  8–10.

*Hab.* in ramulis emortuis salicinis prope Huron Dakota Amer. (NELLIE E. CROUCH).

65. **Leptosphæria Gillotiana** Sacc. et Roum. in Rev. Myc. 1883, p. 236, 3170

tab. 40, fig. 9. — Peritheciis inæqualiter gregariis, globoso-depressis,  $\frac{1}{2}$  mm. diam., et ultra, atris, cortice innatis; ascis fusoides, breve stipitatis, 70–75  $\approx$  10, octosporis, paraphysatis; sporidiis distichis, oblongis, utrinque rotundatis, 3-septatis, non v. vix constrictis, 18  $\approx$  7, rufo-fuligineis.

*Hab.* in ramis corticatis *Salicis* in Gallia. — Affinis *Lept. platycarpæ*, a qua peritheciis minus depressis, sporidiis obtusioribus, minus constrictis, brevioribus differt.

66. **Leptosphæria californica** (Cooke et Hark.) Berl. et Vogl. Add. Syll. 3171

pag. 137, *Sphæria californica* Cooke et Hark. in Grevillea XIII, pag. 20. — Densissime gregaria, tecta; peritheciis hemisphærico-prominulis, obtusis, atris, diu epidermide velatis, demum apice

subnudis; ascis clavatis; sporidiis biserialis, sublanceolatis, utrinque obtusis, 4-septatis, cellula pænultima subincrassata, pallide fuscis, 25-30  $\approx$  8.

*Hab.* in ramis et foliis *Araucariæ imbricatæ*, *Sarthamni*, *Rhododendri*, *Evonymi* in California.

67. **Leptosphæria cirricola** Passer. Diagn. F. N. I, n. 44. — Peri- 3172  
 theciis sparsis, superficialibus, atris, ostiolo papilliformi; ascis clavatis, basi longe attenuato-stipitatis, 8-sporis; paraphysibus tenuibus obvallatis, 65-75  $\approx$  7,5-8; sporidiis distichis vel oblique monostichis, fusiformibus, leniter arcuatis, 5-septatis, septis extimis tenuioribus et interdum obscuris, haud constrictis, loculo altero ex intermediis paullo crassiore, olivaceo-fuscis, 17-18  $\approx$  5.

*Hab.* in cirris aridis denudatis *Vitis viniferæ*, Vigheffio pr. Parma Italiæ. — A *Leptosphæria vineali* Passer. differt peritheciis discretis non maculiculis, crassioribus et sporidiis 5-septatis brevioribus etc.

68. **Leptosphæria dichroa** Passer. Diagn. F. N. I, n. 45. — Perithe- 3173  
 ciis sparsis, subcutaneis, atris, sphæroideis, ostiolo minuto erumpente; ascis tubulosis vel vix clavatis, 8-sporis; sporidiis oblique monostichis v. subdistichis, oblongis, utrinque obtusis, triseptatis, non constrictis, rectis, loculis intermediis majoribus, castaneo-fuscis, interdum guttulatis, extimis multo minoribus, hyalinis, 15-17  $\approx$  5-6; paraphysibus non visis.

*Hab.* in ramis *Deutzia scabræ* in horto botanico Parmensi Italiæ bor. — *L. vagabundæ* proxima, sed sporidiis plane diversis. An novi generis typus?

69. **Leptosphæria Spirææ** Karst. Fragm. Myc. Fenn. XXIV, p. 3. — 3174  
 Peritheciis solitariis v. sæpius cæspitosis, subinde connatis, per peridermium erumpentibus, globulosis v. inæqualibus, solito plus minus depressis, nigris, glabris, sæpe papillatis, 0,4-0,5 mm. diam.; ascis cylindræis, 100-125  $\approx$  14-16; sporidiis octonis, distichis vel oblique monostichis, oblongatis, leviter curvulis v. rectis 3- raro 4-6-septatis, loculo secundo paullo crassiore, ad septa constrictis, dilutissime melleis v. hyalino-chlorinis, 22-30  $\approx$  8-10; paraphysibus numerosis, haud bene discretis, ascos superantibus.

*Hab.* ad ramulos deciduos aridos *Spirææ sorbifoliæ* in horto mustialensi Fennia.

70. **Leptosphæria aculeorum** Passer. Diagn. F. N. IV, p. 4. — Pe- 3175  
 ritheciis hypodermeis, erumpentibus, atris, nitidulis, globosis, ostiolo brevi, acuto, contextu minute celluloso fuligineo; ascis paraphysa-

tis, clavatis, attenuato-stipitatis, 8-sporis, 70-75  $\approx$  10-12; sporidiis tristichis, elongato-fusififormibus, 7-9-septatis, flavis, 30  $\approx$  2,5-3.

*Hab.* in aculeis Rosæ caninæ, Vigheffio pr. Parma Italiæ.

71. **Leptosphæria Thomasiana** Sacc. et Roum. in Rev. Myc. 1883, 3176  
tab. 40, fig. 10. — Peritheciis dense gregariis, globoso-conicis, obtusiuscule papillatis nigris, solidiusculis, initio epidermide velatis, mox liberatis (melanommoideis), vix  $\frac{1}{2}$  mm. diam.; ascis teretiussculis, breviter stipitatis, parce paraphysatis, octosporis, 80-90  $\approx$  8-10; sporidiis oblique monostichis vel distichis, oblongo-fusoideis, 3-septatis, leniter constrictis, rectis vel curvulis, 20-22  $\approx$  6, fuscidulis.

*Hab.* in sarmentis Rubi emortuis in Gallia.

72. **Leptosphæria Ribis** Karsten in Rev. Myc. 1885, p. 106. — Pe- 3177  
ritheciis sparsis, cortice nidulantibus, epidermide demum rimose fissa tectis, pustulas parvas efficientibus, sphæroideo-depressis, atris, glabris, contextu tenui, minute celluloso, fuligineo, ostiolo obsoleto, circiter 150  $\mu$ . latis; ascis cylindraceutis 80-90  $\approx$  8-9, octosporis; sporidiis monostichis, ovoideo-vel fusoideo-oblongatis, rectis, triseptatis, ad septa non vel vix constrictis, flavido-hyalinis, demum obscurioribus subfuscidule flavescentibus, 15-18  $\approx$  6; paraphysibus haud bene discretis.

*Hab.* in ramis exsiccatis Ribis alpini pr. Mustiala Fennicæ.

73. **Leptosphæria Harknessiana** Ell. et Ev. in Journ. of Myc. 1885, 3178  
— Peritheciis sparsis vel gregariis, primum epidermide tectis, demum liberis atque superficialibus, atris, hemisphæricis  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam.; ostiolo brevi, cylindraceuto late pertuso; ascis cylindraceutis, 100-110  $\approx$  10-12, octosporis, paraphysibus filiformibus obvallatis; sporidiis monostichis, ellipsoideis, flavo-brunneis, 3-septato-constrictis, 18-22  $\approx$  7-9, sursum obtusis, basi rotundatis.

*Hab.* in trunco emortuo Anamirtæ Cocculi, Emery Co. Utah Amer. bor.

74. **Leptosphæria fallax** Berl. Fung. Mor. fasc. IV. — Peritheciis 3179  
minutissimis, atris, contextu parenchymatico, globoso-conoideis, ostiolo papilliformi, pertuso donatis, tectis, dein emergentibus  $\frac{1}{8}$ - $\frac{1}{7}$  mm. diam., ascis cylindraceutis vel clavato-cylindraceutis, subsessilibus, paraphysatis, 60-70  $\approx$  12, octosporis; sporidiis distichis, fusoides, 5-septatis, loculo secundo crassiore, rectis vel curvulis, pallide viridulis, 28  $\approx$  4-5, utrinque rotundatis.

*Hab.* in ramulis exsiccatis Mori albæ, Fiumicello Italiæ bor.  
— Fructificatione ad *L. Yulan* accedit.

75. **Leptosphæria platanicola** (Howe) Sacc., *Sphæria platanicola* Howe 3180  
Bull. Torr. Bot. Cl. V, p. 42. — Peritheciis globoso-conoideis, erumpentibus; ascis cylindraceutis vel subclavatis; sporidiis monostichis vivide fuligineis, 3-septatis.

*Hab.* in ramulis Platani in Amer. bor.

76. **Leptosphæria Cisti** Celott. Mic. Montp. p. 32, f. 1. — Peritheciis 3181  
sparsis, innato-erumpentibus, globoso-oblongis, nigris, 500  $\approx$  200; ascis cylindraceutis, 80-90  $\approx$  12-15, paraphysatis; sporidiis octonis, 5-septatis, semilunatis, utrinque acutis, medio vix constrictis, 25-30  $\approx$  6-8, fuligineis.

*Hab.* in ramis Cisti albidis, Montpellier Galliæ.

77. **Leptosphæria Berberidis** Rich. Cat. Champ. Marn. n. 1330. — 3182  
Peritheciis sparsis, subcutaneis, lenticularibus; ascis clavatis, paraphysibus obvallatis; sporidiis fusoides-oblongis, 3-septatis, pallide olivaceis.

*Hab.* in ramulis vivis junioribus Berberidis vulgaris pr. spinarum fasciculos, St. Amand, Marne Galliæ.

78. **Leptosphæria Caprifolii** Brun. Champ. Saint. 1887, pag. 428. — 3183  
Peritheciis sparsis v. approximatis, globoso-conicis v. subglobosis, nigris, cortice tectis lignoque adnatis, vix erumpentibus, cortice secedente superficialibus, ostiolo papillato; ascis oblongo-clavatis, 60-80  $\approx$  12-14, 8-sporis, paraphysatis; sporidiis distichis, oblongis, curvis, 5-septatis, constrictis, 18-22  $\approx$  3-3,5, flavo-brunneis.

*Hab.* in sarmentis emortuis Loniceræ Caprifolii, Saintes Galliæ.

79. **Leptosphæria Periclymeni** Oud. Contr. Myc. Pays-bas XII, p. 27. 3184  
— Peritheciis sparsis,  $\frac{1}{2}$  mm. diam., inter fibras immersis, peridermium tandem perforantibus, glabris, carbonaceis, subnitidis, ostiolo obtuse conico-prominulo; ascis cylindraceutis, pedicellatis, paraphysibus filiformibus, immersis; sporidiis monostichis oblongis, fusoides vel subpiriformibus, rectis vel subcurvis, 3-5-septatis, leniter constrictis, 15-25  $\approx$  7-8,5, loculis submediis subinde paullo crassioribus septoque verticali vel oblique partitis, hyalinis dein olivaceo-subfuscis.

*Hab.* ad ramulos Loniceræ Periclymeni Schéveningue Nederlandiæ (Dom. DESTREE).

80. **Leptosphæria Ericæ** (Fr.) Malbr. in litt. *Sphæria Ericæ* Fr. 3185  
S. M. Elench. 2, pag. 101, Sacc. Syll. II, pag. 422. — Perithecia sparsa vel agregata, fusca, primo tecta, dein erumpentia; asci clavati, longe pedicellati, 85-95  $\approx$  10-11 (p. sp. 60-65), paraphysa-

ti; sporidia disticha, elliptica vel oblonga, utrinque obtusa, 3-septata, loculis mediis latioribus, medio non v. vix constricta, sæpissime recta, fuscæ, 18-19  $\times$  6-7, eguttulata.

*Hab.* ad truncos *Callunæ vulgaris*, Brionne Galliæ.

81. **Leptosphæria Kalmiæ** Peck 39 Rep. pag. 53, t. II, f. 10-14. — 3186

Peritheciis subcæspitosis, erumpentibus, 350-450  $\mu$ . diam., subhemisphæricis, crassis, nigris, ostioliis pertusis vel leviter papillatis; ascis cylindræis, 100-120  $\times$  7-9; sporidiis uniseriatis, oblongis vel subfusoideis, 3-septatis, subinde medio leviter constrictis, 16-20  $\times$  6-7, coloratis; paraphysibus filiformibus.

*Hab.* in ramulis *Kalmiæ angustifoliæ* Adirondack Mount. Amer. bor. — *Lept. vagabundæ* affinis.

82. **Leptosphæria Ailanthi** Karst. et Har. Journ. Bot. 1889. p. 206. — 3187

Peritheciis sparsis, sphæroideo-applanatis, epidermide tectis, ostiolo papilliformi, rotundato, perforante donatis, atris, circ. 200  $\mu$ . lat.; ascis cylindræo-clavatis, 75-95  $\times$  8-10; sporidiis octonis, distichis, fusoideo-bacillaribus, utrinque obtusis, rectis vel leniter curvulis, 3-septatis, ad septum medium subconstrictis, loculo pænultimo levissime protuberante, luteolis, 30  $\times$  3-4; paraphysibus non visis.

*Hab.* ad ramulos *Ailanthi glandulosæ* in Gallia.

83. **Leptosphæria endophæna** Bomm. Rouss. Sacc. sp. nov. — Pe. 3188

Peritheciis sparsis, corticolis, globulosis, punctiformibus, vix  $\frac{1}{4}$  mm. diam., externe haud conspicuis; ascis anguste clavatis, sessilibus, 105-126  $\times$  15-18; paraphysibus flexuosis, crebris; sporidiis octonis, distichis, fusoideis, obtusis, 3-septatis, medio constrictis, hyalinis, nubiosis, 4-guttatis, demum olivaceis, 22  $\times$  6.

*Hab.* in ramis emortuis *Ailanthi glandulosæ*, Watermael Belgii. — Affinis *L. vagabundæ*.

## II. In Dicotyledoneis foliicolæ.

84. **Leptosphæria Camelliæ** Cooke et Mass. Grev. XVI, p. 5. — Ma. 3189

Maculis epiphyllis, arescendo fuscescentibus, vagis; peritheciis sparsis, punctiformibus, vix papillatis, pertusis; ascis subclavatis, plerumque 4-sporis, breviter stipitatis; sporidiis distichis, fusoideis, curvulis, triseptatis, vix constrictis, virescentibus, 25-27  $\times$  5-6.

*Hab.* in foliis vivis *Camelliæ* in Victoria Australiæ (F. CAMPBELL).

85. **Leptosphæria Fraxini** Ell. et Ev. Journ. Myc. 1807, p. 44. — 3190

Maculis amphigenis, subtus ærugineis, supra sordide albis, margine ærugineis, parvis, orbicularibus, 1 mm. diam. v. elongatis, angustis,

2-3 mm. long.; peritheciis nigris, epiphyllis, paucis, pusillis, 75  $\mu$ . diam., erumpentibus, supra indistincte pertusis, basi rudimento mycelii præditis; ascis clavato-cylindræis, 55-70  $\approx$  8-10; sporidiis fusoides, subincurvis, flavis, 3-5-sæpius 4-septatis, maturitate medio constrictis, interdum ad tota septa leniter constrictis, 20-25  $\approx$  3,5-4.

*Hab.* in foliis vivis Fraxini americanæ, Columbia, Montana Amer. bor. (B. T. GALLOWAY).

86. **Leptosphæria Tini** Ell. et Ev. Journ. Myc. 1888, p. 64. — Ma- 3191  
culicola, amphigena, maculis magnis cinereis, anguste rubenti-purpureo-marginatis, 2-3 cm. diam., insidens; peritheciis punctiformibus, minutis, innatis, apice subacuto extus tantum perspicuo; ascis oblongo-cylindræis, subsessilibus; paraphysibus filiformibus, 40-50  $\approx$  7; sporidiis distichis, fusoides, flavidis, subincurvis, vix 3-septatis, 14-16  $\approx$  3.

*Hab.* in foliis Viburni Tini, Lafayette Louisiana Amer. bor. (Rev. A. B. LANGLOIS).

87. **Leptosphæria hyperborea** (Fuck.) Berl. et Vogl. Add. Syll. p. 140, 3192  
*Pleospora* Fuck. 2<sup>e</sup> Deutsche Nordpolfahr. II, p. 92 et Oudemans Contr. Flor. Myc. Now. Seml. p. 153, tab. II, fig. 9. — Peritheciis in foliorum aridorum pagina superiore nidulantibus, sparsis, punctiformibus, semiimmersis et basi globosa a foliorum substantia grisea, elevata cinctis, parte libera obtuse conica, siccis applanatis, aterrimis, perforatis; ascis oblongo-ovatis, utrinque attenuatis, 8-sporis, 60  $\approx$  24; sporidiis in asci media parte stipatis, oblongis, utrinque obtusis, rectis, 3-septatis, ad septum medium constrictis, 24  $\approx$  8, flavo-fuscis.

*Hab.* in pagina superiore foliorum aridorum Andromedæ tetragonæ, Shannon insulæ Groenlandiæ et Spitsbergen. — « An a *L. Andromedæ* satis distincta? »

88. **Leptosphæria Physalidis** Ellis et Ev. in Torr. bot. Club. 1884, 3193  
p. 42. — Peritheciis minutis, globoso-depressis, contextu celluloso, apice poro latiusculo pertusis; ascis 35-40  $\approx$  7-8, aparaphysatis; sporidiis distichis, fusiformibus, leniter curvulis, luteolis, 3-septatis, 15-19  $\approx$  3.

*Hab.* in maculis sordide albis, rotundatis foliorum Physalidis pubescenti, prope Lexington Amer. bor. (KELLERMANN).

89. **Leptosphæria hysterioides** Ellis et Ev. in Bull. Wash. Lab. Nat. 3194  
Nat. Hist. 1884, p. 4. — Peritheciis globosis,  $\frac{1}{6}$  mm. diam., epidermide atrata, demum ostiolo obtuse conico perforata, tectis, sæpe

confluentibus et *Hysterium* simulantibus; ascis oblongis vel oblongo-cylindræis, 85-112  $\approx$  12-15; paraphysibus apice intertextis; sporidiis biserialibus, oblongo-fusoideis, hyalinis, 4-nucleatis, sæpe 3-septatis, brunneis, 20-24  $\approx$  7-9, ad septa constrictis, utrinque obtusis.

*Hab.* in foliis emortuis *Xerophylli tenacis* in Monte Paddo Amer. bor.

90. **Leptosphæria Helichrysi** Cooke in Grev. XIX, pag. 7. — Hypo- 3195  
phylla, superficialis; peritheciis subglobosis, opacis, atris, in tomento nidulantibus, ostiolo impresso, pertuso; ascis clavatis; sporidiis congestis, sublanceolatis triseptatis, rectis curvulisve, fuliginis, 50-55  $\approx$  8.

*Hab.* in foliis *Helichrysi*, Natal Africae (WOOD). — «An hujus generis?»

91. **Leptosphæria salebricola** Bomm. Rouss. Sacc. sp. nov. — Peri- 3196  
theciis sparsis, punctiformibus, subepidermicis, leviter prominulis, 135-150  $\mu$ . diam., ostiolo brevi conoideo; ascis clavatis, 84-90  $\approx$  15-18, sessilibus, octosporis, paraphysatis; sporidiis 2-3-stichis, fusoideis, granulosis (non guttulatis), 3-septatis, 35-39  $\approx$  6-7, obtusis, rectis, coloratis, loculo uno submedio leviter inflato.

*Hab.* in foliis morientibus *Stellariæ gramineæ*, Comblain Belgii. — A *L. uliginosa* macula atra deficiente, ascis sporidiisque majoribus etc. diversa.

92. **Leptosphæria Stellariæ** Rostr. Fung. Groenl. p. 557. — A proxima 3197  
*Leptosphæria Silenes* differt ascis 45  $\approx$  10, sporidiis 20  $\approx$  6.

*Hab.* in foliis *Stellariæ humifusæ* in Groenlandia.

93. **Leptosphæria Rehmiana** Voss Myc. Carn. III, pag. 167. — Peri- 3198  
theciis serialibus, sparsis, globosis, atris, glabris, sessilibus, minutissimis, membranaceis; ascis cylindræis, sessilibus, 8-sporis. 64-66  $\approx$  11-13; paraphysibus filiformibus; sporidiis oblique monostichis v. subdistichis, oblongis v. late fusoideis, utrinque rotundatis, rectis v. leniter curvulis, 3-septatis, ad septa constrictis, loculo secundo protuberante, fuscis, 15-17  $\approx$  6-8.

*Hab.* in foliis emortuis *Drypidis spinosæ*, Stranje pr. Stein in Carnioliâ super.

94. **Leptosphæria antarctica** Speg. F. Fueg. n. 228. — Maculis nul- 3199  
lis v. fuscescentibus, indeterminatis, parvulis; peritheciis sæpius gregariis v. subserialibus, immersis, non prominulis, globulosis, 200-250  $\mu$ . diam., atris, glabris, tenui-membranaceis, contextu parenchymatico fuligineo, ostiolo vix papillulato, epidermidem perforante

sed non exserto ornatis; ascis cylindræis, antice obtuse rotundatis, crassiuscule tunicatis, late 1-foveolatis, postice attenuato-cuneatis, pedicello brevissimo, crasso, noduloso suffultis,  $75-80 \approx 10$ , 8-sporis; paraphysibus filiformibus obvallatis; sporidiis elongato-fusoideis, utrinque obtusiuscule rotundatis,  $45 \approx 3$ , non v. vix inæquilateralibus, 7-septatis, ad septum medium tantum constrictis, loculis granuloso-farctis, pallide olivascentibus.

*Hab.* verisimiliter in foliis in Fuegia Amer. austr. (Matrix loc. cit. non indicata).

### III. In Monocotyledoneis.

#### 95. *Leptosphæria Musarum* Sacc. et Berl. Myc. aliq. Guineens. p. 3. — 3200

Amphigena, plerumque hypophylla; peritheciis gregariis, innatis, globulosis,  $\frac{1}{6}$  mm. diam., ostiolo obtuse papillato, erumpente; ascis fusoideo-elongatis brevissime noduloso-stipitatis, apice obtusiusculis  $60 \approx 10-12$ , obsolete paraphysatis; sporidiis distichis, fusoideis, rectis, rarius curvulis, utrinque obtusiusculis,  $15-18 \approx 5-6$ , triseptatis, ad septa vix constrictis, olivaceo-fuscis.

*Hab.* in foliis emortuis Musæ S. Thomæ Nova Moka Afr. Occid. (AD. F. MOLLER). — Ab affini *Lept. crastophila* differt ascis multo angustioribus sporidiisque paullo longioribus.

#### 96. *Leptosphæria Xiphii* Passer. Diagn F. N. I, n. 48. — Peritheciis 3201

sparsis, minutis, hypodermiis, ostiolo punctiformi atro, tandem emerso; ascis oblongo-clavatis, paraphysibus tenuibus obvallatis, 8-sporis,  $62-70 \approx 9-10$ ; sporidiis, distichis, oblongo-cylindricis, apicibus obtusis, 5-7-septatis, loculo nullo inflato,  $17,5-20 \approx 5$ , castaneis.

*Hab.* in foliis languidis et subaridis Iridis fætidiissimæ, Tabiano in agro parmensi Italiæ. — A *Leptosphæria Vecti* Ces. et De Not. sporidiis brevioribus, loculis æqualibus præcipue differt. An varietas?

#### 97. *Leptosphæria Filamentosæ* Ell. et Ev. Journ. Myc. 1888, pag. 64. 3202

— Peritheciis immersis, sparsis, parvulis,  $200-225 \mu$ . diam., depresso-globosis, supra cuticulam sublevantibus et erumpentibus, ostiolo non prominente; ascis subcylindræis,  $75-80 \approx 7-8$ , copiose paraphysatis; sporidiis distichis, oblongo-cylindræis, 3-septatis, flavis, ad septa constrictis, rectis  $12-15 \approx 4-5$ , utrinque obtusis.

*Hab.* in areis emortuis foliorum viventium *Yuccæ filamentosæ*, Newfield, New Jersey Amer. bor. — Fungus spermogonicus (*Coniothyrium concentricum*?) sporulis minutis,  $4 \mu$ . diam., subglobosis, brunneis.



98. **Leptosphæria præclara** Karst. in Hedw. 1884, n. I, p. 2 et Rev. 3203  
 atque Synop. Ascom. fenn. p. 54. — Peritheciis sparsis vel subgregariis, depresse sphæroideis, subcutaneo-erumpentibus, contextu parenchymatico, tenui, dilute olivaceo-fuscescente, glabris, ostiolo vix prominulo pertusis, circ. 150  $\mu$ . lat.; ascis elongato-vel oblongato-subclavatis, sessilibus, curvatis, 56-100  $\approx$  13-26; sporidiis octonis, distichis vel subtristichis, oblongato-fusoideis, curvulis vel inæquilateralibus, 5-, raro 3-septatis, loculo tertio subinde crassiore, ad septa leviter constrictis, læte luteolis, 20-32  $\approx$  8-9; paraphysibus haud bene discretis.

*Hab.* in caulibus emortuis Asparagi officinalis ad Mustiala Fenniæ.

99. **Leptosphæria ruscicola** Karst. et Har. Rev. Myc. 1890 n. 47. — 3204  
 Peritheciis gregariis, nonnumquam conglomeratis, mox superficialibus, sphæroideis vel rotundatis, vertice applanatis vel depressis, ostiolo umbilicato, atris, circiter 0,2 mm. latis; ascis cylindraceo-clavatis, 120-130  $\approx$  18; sporidiis octonis, distichis, fusoideo-elongatis, 3-septatis, loculo secundo inflatulo, flavescenti vel chlorino-hyalinis, 33  $\approx$  6; paraphysibus filiformibus, numerosis.

*Hab.* in caulibus putrescentibus Rusci in Gallia (P. HARIOT). — A *Leptosphæria Rusci* valde diversa.

100. **Leptosphæria asparagina** Karst. in Hedw. 1884, n. I, pag. I et 3205  
 Rev. atque Synop. Ascom. fenn. p. 55. — Peritheciis subsparsis vel gregariis, hinc inde in series dispositis, sphæroideis vel sæpius sphæroideo-applanatis, hyphis repentibus, fuligineis obsessis, epidermide velatis, nigris, papilla conoidea, sæpe perithecium dimidium æquante, prominula præditis, circ. 0,2 mm. lat.; ascis cylindraceo-clavatis, 95-105  $\approx$  9-10; sporidiis octonis, distichis, elongato-fusoideis, ut plurimum curvulis, 7-septatis, ad septa leviter vel vix constrictis, eguttulatis, dilute flavis, 24-30  $\approx$  4,5-6; paraphysibus filiformibus, bene discretis, ascos superantibus.

*Hab.* ad caules Asparagi officinalis emortuos in Mustiala Fenniæ. — Status spermogonicus est *Phoma asparagina*.

101. **Leptosphæria Passeriniana** Sacc. *L. Asparagi* Passer. Diagn. 3206  
 F. N. I, n. 47, nec Peck. — Peritheciis laxè gregariis, epidermide tectis dein nudatis, globosis, atris, ostiolo vix perspicuo; ascis oblongo-clavatis, paraphysatis, 8-sporis, 60-90  $\approx$  10-12,5; sporidiis fusiformi-lanceolatis, distichis, 6-9-septatis, 20-22,5  $\approx$  5, flavis.

*Hab.* in ramis siccis Asparagi officinalis, socia *Phoma Asparagi*, Parma Italiæ bor.

102. **Leptosphæria Asparagi** Peck 40 Rep. p. 70. — Peritheciis late 3207  
conicis, 250-350  $\mu$ . diam., epidermide perforata tectis, dein nudatis,  
atris; ascis clavatis v. cylindraceutis, breve pedicellatis, 70-100  $\approx$   
12-15; sporidiis oblongis v. fusoides, confertis, 20-30  $\approx$  7, initio  
hyalinis 3-septatis, dein dilute coloratis, 5-septatis, ad septa con-  
strictis.

*Hab.* in caulibus emortuis Asparagi, Menands Amer. bor.

103. **Leptosphæria translucens** Winter Contr. Fl. Myc. Lus. V, p. 15. 3208  
— Peritheciis subsparsis, tectis, translucentibus, subglobosis, ostiolo  
punctiformi epidermidem perforantibus, fere coriaceis, atris, 0,2-0  
-24 mm. diam.; ascis cylindraceutis, deorsum parum attenuatis, ses-  
silibus, 75-95  $\approx$  10-11, octosporis; sporidiis distichis, cylindraceutis,  
utrinque rotundatis, interdum parum curvatis, 6-cellularibus, cel-  
lula quarta (ab asci apice numerata) perparum incrassata, mel-  
leis, demum fuscis, 21-24  $\approx$  5-6; paraphysibus filiformibus, ascos  
superantibus.

*Hab.* ad folia arida Fourcroyæ, Coimbra in Lusitania (MOL-  
LER).

104. **Leptosphæria punctoidea** Karst. in Hedw. 1884, n. I, pag. 2, et 3209  
Rev. atque Synop. Ascom. fenn. p. 53. — Peritheciis sparsis, sphæ-  
roideo-applanatis, innato-erumpentibus, subcutaneis, contextu pa-  
renchymatico, tenuissimo, olivaceo-pallescente, glabris, atris poro  
latiusculo pertusis, circ. 1 mm. lat.; ascis cylindraceuto-clavatis, 45-  
75  $\approx$  7-11, pseudoparaphysatis; sporidiis octonis, distichis, elongato-  
fusoides, curvulis, 3-septatis, eguttulatis, loculo secundo subinde  
leviter crassiore, hyalinis, demum dilute flavescentibus, 15-26  $\approx$  3-5.

*Hab.* in caulibus emortuis Asparagi officinalis ad Mu-  
stia Fennicæ.

105. **Leptosphæria infernalis** Niessl Contr. Fl. Myc. Lus. p. 13. — 3210  
Amphigena; peritheciis dense gregariis, in maculis fuscis, sub epi-  
dermide dense nidulantibus, globosis, majusculis, 0,3 et ultra mm.  
diam., atris, glabris, rigidis, subcarbonaceis, ostiolo brevi, cylin-  
drico, vix protuberante; ascis clavatis, stipite valde elongato, 8-  
sporibus, 200-230  $\mu$ . longis, parte sp. 90-100  $\approx$  18-22; sporidiis disti-  
chis, oblongis vel parum lanceolatis seu medio valde constrictis,  
utrinque acutiusculis, rectis vel inæquilateralibus, 3-septatis, locu-  
lis mediis biguttulatis, atro-fuscis, demum subopacis, 19-24  $\approx$  9-12;  
paraphysibus ascorum longitudinem vel paullum superantibus, cras-  
sis, guttulatis et laxè ramosis.

*Hab.* ad folia emortua Fourcroyæ longævæ pr. Coimbra

Lusitaniæ. — Differt a proxima *L. clivensi* præcipue peritheciis minoribus, ascis elongatis, sporidiis duplo latioribus, sublanceolatis.

106. **Leptosphæria rivularis** Bomm. Rouss. Sacc. sp. nov. — Peritheciis 3211  
innato-erumpentibus, subcutaneis, sphæricis, atris, 250-270  $\mu$ . d.,  
pertusis, hyphis, brunneis, repentibus basi cinctis; ascis clavato-  
oblongis, subsessilibus, 69  $\approx$  15-18 v. clavatis, 90  $\approx$  12-15, octosporis,  
paraphysatis; sporidiis distichis, chlorino-flavidis, fusoideis  
curvulis, utrinque obtusis 3-septatis, medio leniter constrictis, 24-  
25  $\approx$  7-8, loculo submedio leviter inflato.

*Hab.* in caulibus *Alismatis Plantaginis*, Remouchamps Belgii.

107. **Leptosphæria sabalicola** Ellis et Martin Amer. Nat. 1882. p. 810. 3212  
— Gregaria vel sparsa; peritheciis coriaceis, solidiusculis,  $\frac{1}{3}$  mm.  
diam., epidermide conico-tumidula et circum circa infuscata tectis;  
ascis clavato-cylindræis, 57  $\approx$  8; sporidiis distichis oblongis, 3-septatis,  
11  $\approx$  3,5, fuligineis.

*Hab.* in petiolis *Sabal serrulatæ*, Green Cove Springs, Florida Americæ bor. (Doct. MARTIN). An *Clypeosphæria*?

108. **Leptosphæria Magnusiana** Berl. et Sacc. Add. Syll. p. 414. — Pe- 3213  
ritheciis sparsis, minutis, 100-130  $\mu$ . diam., globosis, vix papillatis,  
epidermide dein ostiolo perforata tectis; ascis cylindræis, basi abrupte  
breviterque stipitatis, sæpe curvis, crassiuscule tunicatis, apice  
subrotundatis, paraphysibus filiformibus, subinde pseudo-septulatis,  
longioribus cinctis, 70  $\approx$  18, octosporis; sporidiis irregulariter distichis  
vel sursum basique monostichis, oblongis vel subcylindræis,  
utrinque rotundatis, demum triseptatis, loculo secundo crassiore.  
fusco-fuligineis, 18-20  $\approx$  6.

*Hab.* in foliis exsiccatis *Chamæropis humilis* in insula Sicilia, socia *Sphæropside dothideoide*. — Affinis *L. Tritici*, a qua loculo secundo paullo inflato et ascis multo majoribus differt. et *L. elæosporæ*, a qua sporidiis conspicue crassioribus recedit, ab utroque insuper matrice.

109. **Leptosphæria microscopica** Karst. — Sacc. Syll. II, pag. 59, 3214  
var. **Calami** Karst. in Hedw. 1883, n. 12, p. 2, Rev. atque Synop. Ascom. fenn. p. 52. — Peritheciis laxè gregariis, subcutaneis, sphæroideis, raro oblongatis, subastomis, glabris, atris, 1 mm. lat.; ascis elongato-clavatis, obtusis, 66-80  $\approx$  12-15; sporidiis octonis, di-vel subtristichis, elongato-fusoideis, rectis vel leviter curvulis 3-septatis, eguttulatis, loculo subultimo subinde leviter crassiore, dilute flavis, 20-24  $\approx$  6; paraphysibus obsoletis.

*Hab.* in foliis putrescentibus *Acori Calami* in insula *Runsala Fennicæ*.

110. **Leptosphæria Corallorrhizæ** Peck 38 Rep. St. Mus. p. 105, t. 2, 3215  
fig. 20-23. — Peritheciis numerosis, minutis, 100-125  $\mu$ , d., erumpentibus nigris, minute ostiolatis; ascis cylindræis, sessilibus, 50-75  $\times$  7-8; sporidiis stipatis vel distichis, subfusiformibus, triseptatis, medio leniter constrictis, brunneolis, 20-26  $\times$  4-5.

*Hab.* in caulibus emortuis *Corallorrhizæ multifloræ*, *Caroga Amer. bor.*

111. **Leptosphæria licatensis** Sacc. Syll. II, pag. 70, Var. **rupefortensis** Pass. in litt. Brun. in Rev. Myc. 1886, p. 206. — Ascis paraphysatis, 75  $\times$  12,5; sporidiis fusiformibus, 5-septatis, castaneo-brunneis, 25  $\times$  5-6. In foliis emortuis *Typhæ latifoliæ* in Horto botanico Rochefort Gallicæ.

112. **Leptosphæria typhiseda** Sacc. et Berl. in Rev. Myc. 1886, p. 33. 3216  
— Peritheciis sparsis, minutis, primum tectis, dein epidermide perforata emergentibus, globosis globosove-conoideis, ostiolo minuto, papillato instructis,  $\frac{1}{8}$  mm. diam., atris; ascis cylindræis, sursum rotundatis, basi breviter stipitatis, paraphysibus filiformibus, simplicibus obvallatis, 70-80  $\times$  14, octosporis; sporidiis oblique vel recte monostichis, cylindræo-clavulatis, apice rotundatis, deorsum acutioribus, 24-28  $\times$  7, olivaceis, 5-6-septatis, ad septum medium vix constrictis,

*Hab.* in foliis emortuis putrescentibus *Typhæ angustifoliæ* Algeria. — *Lept. helminthosporæ* affinis, a qua præ ceteris matrice distinguenda.

113. **Leptosphæria striolata** Passer. Diagn. F. N. IV, p. 5, n. 15. — 3217  
Peritheciis sparsis, primo epidermide velatis, dein nudatis, minutissimis, atris, contextu minute celluloso-fuligineo; ascis subclavatis, amplis, apice rotundatis, basi vix attenuatis, breviter noduloso-stipitatis, 62-75  $\times$  22-25; paraphysibus nullis; sporidiis octonis, subtristichis, clavulatis, initio pluriguttulatis, olivaceis, integris, dein fuligineis, obscure 5-7-septatis, episporio longitudinaliter subtilissime striato, loculo ultimo paullo crassiore, 20-37,5  $\times$  6-8.

*Hab.* in culmis aridis *Scirpi Holoschoeni*, Vigheffio, Parma Italiæ.

114. **Leptosphæria Nardi** (Fr.) Ces. De Not. Syll. II, p. 72. — **dubiosa** 3218  
Mout. Ascom. Lièg. II, p. 9. — Sparsa; peritheciis globosis,  $\frac{1}{5}$  mm. d., innatis, nonnullis hyphis obductis, papillis minimis epidermidem perforante instructis; ascis teretibus, sessilibus, 70-80  $\times$  11-14;

sporidiis subtristichis, fusoideis, acutatis, luteolis,  $35 \approx 4$ , non constrictis, 5-septatis.

*Hab.* in foliis Scirpi silvatici pr. Liège Belgii. — A typo præcipue sporidiis longioribus diversa.

115. **Leptosphæria hemicrypta** Oud. Contr. Flor. Myc. Pays-Bas. XI, 3219 p. 21. — Peritheciis epiphyllis, membranaceis, nigris,  $\frac{1}{6}$  mm. latis, depresso globosis, semiimmersis, pro dimidia fere parte occultatis sub epidermidis portiuncula antice hiante, postice vero a contextu non soluta, ostiolo simplici vel breviter papilloso præditis; ascis numerosis, cylindricis,  $50-70 \approx 10-12$ , versus basim angustioribus, 8-sporis, partim paraphysibus filiformibus, subtilissimis, partim pseudo-paraphysibus piriformibus articulatis, longe pedicellatis, sursum in appendicem mucroniformem abeuntibus, stipatis; sporidiis distichis, dilutissime fuscescentibus, fusiformibus, paulum curvatis, 5-guttulatis, ob maturitatis stadium imperfectum septis hucusque destitutis.

*Hab.* in foliis Caricis cujusdam, Putten Hollandiæ.

116. **Leptosphæria folliculata** Ell. et Ev. Proc. Phil. 1890, pag. 237. 3220 — Maculis pallide albis, ellipsoideis,  $2-4 \approx 1-1,5$ ; peritheciis immersis, apice subprominulo, 1-6 in quaque macula,  $60-75 \mu$ . diam., ascis clavato-cylindræis,  $50 \approx 10-12$ ; sporidiis distichis, oblongis v. clavato-oblongis, 2-septatis, ad septa subconstrictis,  $12-15 \approx 3$ , flavido-brunneis, utrinque obtusis.

*Hab.* in foliis Caricis folliculatæ in Amer. bor. — Ab aliis speciebus ad Caricem viventibus differt maculis distinctis sporidiisque minoribus.

117. **Leptosphæria marina** Ellis et Ev. in Journ. of Myc. 1885, p. 43. 3221 — Peritheciis irregulariter sparsis, subellipticis,  $\frac{1}{3}-\frac{3}{4}$  mm. diam., sursum conoideis, epidermide integra, nigrescente tectis, apice subtruncatis, ostiolo papilliformi, mox deciduo præditis, demum late perforatis; ascis  $112-150 \approx 25-35$ , basi constrictis, substipitatis; sporidiis bi-tristichis, fusiformibus vel clavato-fusiformibus, luteolis, 1-3-septatis, (sæpe 1-septatis), medio leniter constrictis,  $50-60 \approx 10-12$ , utrinque subobtusis.

*Hab.* in culmis emortuis Spartinae, Cape May Amer. bor. (CAROLINA TREAT).

118. **Leptosphæria sticta** E. et E. in Journ. of Myc. I, pag. 43. — 3222 Peritheciis sparsis, subovatis, membranaceis, epidermide nigrefacta, ostiolo punctiformi perforata, tectis dein prominentibus; ascis  $100-125 \approx 15-20$ ; paraphysibus numerosis; sporidiis 1-2-seriatis,

fusiformibus, pallide luteis, 5-septatis, ad septa leniter constrictis, utrinque obtusis, 30-40  $\approx$  7-9.

*Hab.* in culmis *Spartinæ*, Cape May Amer. bor. (CAROLINA TREAT).

119. **Leptosphæria *Spartinæ*** Ell. et Ev. in Journ. of Myc. 1885, 3223 p. 43. — Peritheciis gregariis,  $\frac{1}{4}$  mm. diam., epidermide nigrescente, ostiolo papilliformi, late pertuso rupta, elevata tectis; ascis 115-120  $\approx$  12-15; paraphysibus, filiformibus, obvallatis, 8-sporis; sporidiis distichis, late fusoides, pallide luteis, 35-45  $\approx$  8-10.

*Hab.* in culmis emortuis *Spartinæ*, Cape May Amer. bor. (CAROLINA TREAT).

120. **Leptosphæria *lineolaris*** Niessl in Herb., Linhart fung. hung. 3224 n. 466. — Peritheciis minutis, circiter 0,15-0,20 mm. diam., seriatis dispositis, sæpe in lineas breves confluentibus, submembranaceis, depresso globosis vel e latere compressis elongatisque, atrofusis, glabris, ostiolo punctiformi; ascis elongato-oblongis, stipite brevi, 43-58  $\approx$  10-12, octosporis, paraphysibus longioribus obvallatis; sporidiis 2-3-stichis, fusiformibus, inæquilateralibus v. parum curvatis, obtusiusculis, 5-7-ocularibus, vix nodulosis, dilute lutescentibus, 19-24  $\approx$  3-4.

*Hab.* in culmis exsiccatis *Airæ cæspitosæ* prope Petrozsény Hungariæ.

121. **Leptosphæria *Ammophilæ*** Rehm Ascomyc. fasc. XIV, n. 691. 3225 — Peritheciis immersis dein prominulis, late ellipticis, ostiolo crasso, prominente donatis, nigris, levibus, 260-340  $\approx$  210-260; ascis oblongis, basi subinde leniter incrassatis, octosporis, 115-123  $\approx$  35; paraphysibus filiformibus obvallatis; sporidiis inordinate distichis, oblongis, 7-8-ocularibus, loculis quarto vel quinto subinde crassioribus, 38-45  $\approx$  12-14, luteis.

*Hab.* in caulibus siccis *Psammæ arenariæ* in Germania. — « Verisimiliter eadem ac *Lept. littoralis* ».

122. **Leptosphæria *Sporoboli*** Ell. et Gall. Journ. Myc. 1889 p. 66. 3226 — Peritheciis sparsis, erumpenti-superficialibus subhemisphæricis, sublevibus, nigris,  $\frac{1}{5}$ - $\frac{1}{4}$  mm. diam.; ostiolo brevi, crasso, mammilliformi; ascis clavato-cylindræis, 75-80  $\approx$  16-18, copiose paraphysatis; sporidiis conferte distichis, imbricatis, oblongo-fusoides, utrinque subobtusis, rectis, 6-septatis, ad septa non v. demum leniter constrictis, circ. 22  $\approx$  7.

*Hab.* in culmis *Sporoboli depauperati*, Sand Coulee, Ca.

scade County, Montana, Amer. bor. (F. W. ANDERSON). — A *L. culmifraga* sporidiis brevioribus, constanter 6-septatis, a *L. culmicola* peritheciis subsuperficialibus differt.

123. **Leptosphæria conimbricensis** Berl. et Fr, Sacc. Contr. Myc. Lus. 3227  
p. 5, t. 83, f. 5. — Peritheciis sparsis, minutis, epidermide tectis, globoso-conoideis,  $\frac{1}{4}$  mm. diam., ostiolo papillato, minuto; ascis clavatis, sursum late rotundatis, subsessilibus, 80-90  $\approx$  8-9; sporidiis 8-sporis, subdistichis, fusoideis, 7-septatis, loculo quarto cras-  
siore, 22-24  $\approx$  5-6, pallide flavo-virentibus.

*Hab.* in culmis Piptatheri miliacei, Coimbra Lusitaniæ.

124. **Leptosphæria culmifraga** (Fr.) Ces. De Not. — Syll. II, p. 75 — 3228  
Var. **bromicola** Bres. in Rev. Myc. 1890 pag. 184. — Peritheciis sparsis v. in series congestis, globoso-conoideis, in ostiolum papillatum desinentibus, 300-320  $\mu$ . diam., atris, subsuperficialibus, basi ut plurimum filamentis fuscidulis interdum dichotomis, 2  $\mu$ . cr. præditis; ascis clavatis, stipitatis, paraphysibus filiformibus, guttulatis cinctis, 40-80  $\approx$  10-12; sporidiis octonis, superne 3-stichis, fusoideo-elongatis, curvulis, 6-8-septatis, loculo tertio interdum leviter cras-  
siore, ad septum subconstrictis, flavis, 22-25  $\approx$  3,5-4.

*Hab.* in culmis Bromi asperi, pr. Leutschau Hungariæ. — Differt a typo peritheciis perfecte conoideis, subsuperficialibus, ascis sporidiisque minoribus.

125. **Leptosphæria phormicola** Cooke et Harkn. in Grevillea XIV, 3229  
p. 10. — Gregaria; peritheciis punctiformibus, erumpentibus, epidermide tectis dein rimoso-emergentibus, atris, convexulis, papillatis; ascis clavatis, octosporis; sporidiis sublanceolatis, utriusque rotundatis, biserialibus, triseptatis, vix constrictis, pallide fuscis, 22  $\approx$  6.

*Hab.* in Phormio in California (HARKNESS).

126. **Leptosphæria Cattanei** Thuem. Pilze d. Reispf. p. 5. — Peritheciis sparsis, innato-erumpentibus, atris, globulosis, papillatis, parvulis, in macula subexarida griseola; ascis elongato-clavatis, 8-sporis, breve stipitatis, 100-110  $\approx$  10-13; sporidiis plerumque distichis, viridi-flaventibus, fusoideis, 3-septatis, ad septa vix constrictis, 22-28  $\approx$  4; paraphysibus nullis (?)

*Hab.* in culmis foliisque languidis Oryzæ sativæ, Aquileia Ital. boreal.

127. **Leptosphæria algida** Rost. Fung. Groenl. p, 560. — Peritheciis 3231  
globulosis, 160  $\mu$ . diam.; ascis cylindraceo-clavatis, curvulis, 50-

54  $\approx$  12, aparaphysatis; sporidiis oblique monostichis, oblongis, sæpe curvulis, flavis, 3-septatis, 16-20  $\approx$  6-7.

*Hab.* in foliis Catabrosæ algidæ in Groenlandia.

128. **Leptosphæria Typharum** (Desm.) Karst. — Sacc. Syll. II, p. 64, 3232

var. **phragmitina** Karst. in Hedw. 1884, n. 1, pag. 5, et Rev. atque Synops. Ascom. fenn. pag. 54. — Peritheciis sparsis, innato-erumpentibus, glabris, atris, exiguis; ascis oblongatis, subsessilibus, 75-88  $\approx$  20-22; sporidiis distichis, oblongatis, utrinque obtusis, subrectis, 3-septatis, ad septa leviter constrictis, dilute luteolis, 24-29  $\approx$  9-11; paraphysibus parum notabilibus.

*Hab.* in foliis Phragmitis communis putrescentibus ad Mustiala Fenniæ.

129. **Leptosphæria clavicularpa** E. et E. in Jour. of Myc. I, p. 43, — 3233

Peritheciis plerumque seriatis, in lineas  $\frac{1}{4}$ -1 cm. longas dispositis, epidermide nigrefacta tectis dein prominentibus et epidermidem, ostioliis vix conspicuis, perforantibus; ascis latis, oblongo-cylindræis, 75-100  $\approx$  22-25, obtusis, basi constrictis; paraphysibus filiformibus; sporidiis stipatis, polystichis, clavato-oblongis, leniter curvatis, apice obtusis vel rotundatis, basi abrupte constrictis, 7-9-septatis, maturis luteo-brunneis, 25-40  $\approx$  8-10, ad septa leniter constrictis; spermatiis in peritheciis similibus, oblongo-cylindræis, leniter curvatis, hyalinis, 3-5  $\approx$  1 $\frac{1}{4}$ .

*Hab.* in culmis emortuis Phragmitis communis, Spirit Lake, Jowa Amer. (PROF. S. C. ARTHUR).

130. **Leptosphæria pachycarpa** Sacc. et March. in Rev. Myc. 1885. 3234

— Peritheciis gregariis, erumpenti-superficialibus, globoso-papillatis,  $\frac{1}{3}$  mm. diam., duriusculis, atris; ascis tereti-clavulatis, brevè stipitatis, paraphysatis, 140  $\approx$  18, octosporis; sporidiis distichis, fusoides, utrinque acutiusculis, rectis curvulisve, 5-septatis, ad septum medium leniter constrictis, 35-40  $\approx$  6,5-7,5, fuligineis, loculis extimis subhyalinis.

*Hab.* in culmis Graminum majorum in Belgio. — Peritheciis crassiusculis sporidiisque utrinque subhyalinis statim dignoscitur.

131. **Leptosphæria rhodophæa** Bizz. Fung. Ven. nov. v. crit. pag. 2, 3235

t. II, f. 3, a, b, c, d. — Peritheciis sparsis vel 2-3-aggregatis, subimmersis, globoso-depressiusculis, ostiolo papillulato, vix exserto, pertusis, 0,5 mm. diam; ascis cylindræo-clavatis, 8-sporis, 80-100, parte sporif. 70-75  $\approx$  10, paraphysatis; sporidiis distichis, fuligineis, fusiformibus, 5-septatis, ad septa intermedia constrictis, loculo medio crassiore et rotundato, 28-30  $\approx$  7-7,5.



*Hab.* in culmis emortuis Arundinis Donacis in horto botanico patavino.

132. **Leptosphæria recessa** Passer. Diagn. F. N. IV, pag. 5. — Peritheciis in gemmarum fovea aggregatis, erumpentibus, tandem nudatis, subglobosis, atris, ostiolo minuto papillari; ascis paraphysatis, elongato-clavatis, basi breviter attenuatis, 8-sporis, 65-90  $\approx$  10-12; sporidiis distichis v. oblique monostichis, fusiformibus, 5-septatis, loculo nullo inflato, flavidis, 25-27,5  $\approx$  6-5. 3236

*Hab.* in culmis fracidis Arundinis Donacis, Vigheffio pr. Parma Ital.

133. **Leptosphæria grisea** Passer. Diagn. F. N. IV, p. 5. — Peritheciis in matrice dealbata maculam longitudinalem griseam sistentibus, globulosis, atris, erumpentibus, ostiolo acutiusculo; ascis tubulosis v. clavatis, sessilibus aparamphysatis?, 8-sporis, 75  $\approx$  10; sporidiis distichis v. oblique monostichis, fusiformibus, curvulis, 5-septatis, loculo altero ex intermediis tumido, melleis, 25-27,5  $\approx$  4,5-5. 3237

*Hab.* in culmo fracido Sorghi vulgaris, Vigheffio pr. Parma Italiæ.

134. **Leptosphæria fuscidula** Passer. Diagn. F. N. I, n. 50. — Peritheciis pusillis, sparsis v. subgregariis, in maculis linearibus albicantibus, subsuperficialibus atris, ostiolo acuto; ascis cylindricis, aparamphysatis, 8-sporis, 55-80  $\approx$  10-12; sporidiis fusiformibus, biserialibus, rectis v. curvulis, triseptatis, non constrictis, loculo altero subultimo non v. vix crassiore, olivaceo-fuscis, 17-20  $\approx$  5-6. 3238

*Hab.* in foliis aridilis Melicæ altissimæ in horto botanico parmensi Italiæ bor.

135. **Leptosphæria Hierochloæ** Oudem. Cont. à la Flore myc. de Nowaja Semlja p. 10, t. I, f. 3. — Peritheciis foliicolis, sparsis, primitus occultatis, postremo erumpentibus, subglobosis, atris, structuræ parenchymatosæ flaccidæ, simpliciter perforatis (i. e. ostiolo nullo vel vix prominente), 180-250  $\mu$ . diam.; ascis brevissime pedicellatis, parum curvatis, paraphysatis, 90-95  $\approx$  30, membrana ubique æquali, 8-sporis; sporidiis tristichis, oblongo-fusoideis, rectis, utrinque obtusatis, mellei coloris, 5-septatis, ad septa levissime constrictis, 30  $\approx$  9, loculo quarto omnium maximo. 3239

*Hab.* in foliis Hierochloæ alpinæ, Nowaja Semlja.

136. **Leptosphæria fuegiana** Speg. Fueg. n. 231. — Maculis nullis; peritheciis sparsis, hypophyllis, immersis, non v. vix prominulis, 150-200  $\mu$ . diam., atris, glabris, membranaceis, contextu pellucido, grosse parenchymatico-fuligineo, ostiolo subcarbonaceo, papillulato, 3240

epidermidem perforante sed non exserto donatis; ascis cylindræis, antice rotundatis, postice breviter cuneato-rotundatis, stipite brevissimo crassoque suffultis, 40-45  $\approx$  10, 8-sporis, aparaphysatis; sporidiis di-tri-stichis, elliptico-fusoideis, utrinque acutiuscule rotundatis, 18-20  $\approx$  5, triseptatis, ad septum medium non v. leniter constrictis, loculis eguttulatis, secundo supero crassiore, flavescentibus.

*Hab.* in Hierochloæ antarcticæ foliis culmisque putrescentibus in pratis pr. Penguin rookery, Staten island. Amer. austr.

137. **Leptosphæria Puiggarii** Speg. F. Puigg. n. 281. — Maculis fuscis, minutis indeterminatis; peritheciis globosis, infossis, seriatis, atris, glabris, 200-250  $\mu$ . diam.; ascis fusoideis, 8-sporis, 90-100  $\approx$  20, paraphysatis; sporidiis distichis fusoideis, 5-septatis, melleis, 28-30  $\approx$  8-9. 3241

*Hab.* ad folia emortua Andropogonis saccharoidis in pratis pr. Apiaby Brasilæ.

138. **Leptosphæria Brizæ** Passer. Diagn. F. N. I, n. 51. — Peritheciis superficialibus, sparsis, pusillis, subglobosis, atro-nitidis; ascis oblongis, saccato-ventricosis, basi breviter angustatis, 8-sporis, 55  $\approx$  17-18; sporidiis tristichis, elongato-fusiformibus rectis, vel curvulis, triseptatis, flavidis, ad septum medium vix constrictis, interdum scissilibus, loculis quandoque guttulatis, 35-40  $\approx$  5,5-6; paraphysibus non visis. 3242

*Hab.* in culmis et pedunculis siccis Brizæ mediæ, Monte Prinzerà in agro parmensi Italiæ.

139. **Leptosphæria dactylina** Passer. Diagn. F. N. I, n. 52. — Peritheciis remote sparsis, tectis, epidermidem sublevantibus, globosis, atris; ascis clavatis, paraphysatis, 8-sporis, 62-85  $\approx$  10; sporidiis subtristichis, multiseptatis, fusiformibus, loculis guttulatis, æqualibus, flavis, 20-25  $\approx$  3,5-4. 3243

*Hab.* in culmis aridis Dactylidis glomeratæ, Vigheffio pr. Parma Italiæ. — *L. seriatam* fructificatione æmulatur, sed peritheciis multo grandioribus, diversissime dispositis, primo obtutu distinguenda.

140. **Leptosphæria seriata** Passer. Diagn. F. N. I, n. 49. — Peritheciis exiguis, atris, per epidermidem rimosam parallele seriatis, ostiolo minuto, acuto; ascis oblongo-clavatis, paraphysatis, 8-sporis, 50-60  $\approx$  9-10; sporidiis distichis, fusiformibus, rectis v. curvulis, 9-11-septatis, loculis æqualibus, flavidis, 22-25  $\approx$  2,5-3. 3244

*Hab.* in culmo fracido Zeæ Maydis, socio *Epicocco neglecto*, Vigheffio pr. Parma Italiæ.

141. **Leptosphæria patellæformis** Passer. Diagn. F. N. III, n. 21. — 3245

Peritheciis subgregariis v. sparsis, subglobosis, ostiolo minutissimo vix papillari, atris, siccitate collapsis, scutellatis; ascis elongato-subclavatis, paraphysibus filiformibus superatis, 8-sporis, 80-100  $\approx$  8-10; sporidiis fusiformibus, 3-septatis, distichis v. oblique monostichis, dilute flavis, senio fuscescentibus, 15-17,5  $\approx$  5.

*Hab.* in culmo fracido Zeæ Maydis, Vigheffio prope Parma Italiæ.

142. **Leptosphæria rhizomatum** Passer. Diagn. F. N. III, n. 22. — 3246

Peritheciis parce gregariis, tectis, globosis, atris, ostiolo epidermidem perforante v. subinde pontiformi sublevante, tandem nudatis, glabris; ascis paraphysatis, plus minus late clavatis, basi sensim attenuatis, noduloso-stipitatis, 8-sporis, 62-87  $\approx$  6-10; sporidiis distichis v. oblique monostichis, in ascis latioribus superne tristichis, fusiformibus, 7-9-septatis, loculis æqualibus v. altero ex intermediis vix tumidulo, e luteo fuscis, ad apices acuminatis et quandoque apiculatis, 22-25  $\approx$  2,5-3,5.

*Hab.* in rhizomatibus Cynodontis Dactyli et stolonibus Agrostidis vulgaris, Vigheffio pr. Parma Italiæ. — A *L. culmifraga* (Fr.) non longe distare videtur, sed peritheciis glabris et sporidiorum longitudine, satis diversa.

143. **Leptosphæria pleurospora** Niessl in Rehm Ascom. III, n. 937. 3247

— Peritheciis sparsis, sub epidermide adusta v. expallente et dealbata nidulantibus, minutis, vix 150  $\mu$ . diam., depresso-globosis, membranaceis, atris, ostiolo punctiformi; ascis paucis in singulis peritheciis, oblongis demum, per extensionem sæpe clavatis, stipitatis, 80-135  $\approx$  24-36, 8-sporis; sporidiis oblique 2-stichis, fusoido-cylindræis, inferne parum angustatis, utrinque obtusis, plerumque rectis, sed inæquilateralibus, 7-cellularibus, loculo tertio paullo protuberante, obscure fuliginosis, demum atris, subopacis, episporio longitudinaliter elegantissime striato, 33-38  $\approx$  7-9.

*Hab.* in culmis siccis Airæ cæspitosæ pr. Lofer Salisburgi (NIESSL).

144. **Leptosphæria pachythea** Hariot et Briard Rev. Myc. 1890 Oct. 3248

— Peritheciis parvis, subepidermicis, nigris, 100-120  $\mu$ . diam., in series longitudinales plus minus adproximatis; ascis ovoideis, sessilibus, 8-sporis, 40-44  $\approx$  14-16, aparamphysatis; sporidiis oblongis, ellipsoideis, subfusiformibus, 1-3-septatis, obtusiusculis, olivaceo-pallidis, non v. parum constrictis, 8-12  $\approx$  3-4.

*Hab.* ad culmos et folia sicca Nardi strictæ in planitie Foolz,

Aube Galliæ (P. HARIOT). — **Lept. Fuckelii** Niessl form. **filamentifera** Karst. *Fragm. Myc.* XXIV, p. 3. In vaginis Phalaridis arundinaceæ prope Mustiala est obvia. — **Lept. littoralis** Sacc. Huc, teste Berl. *Alcun. Lept.* p. 15, t. II, f. 13, spectant *Sphæria sabuletorum* Berk. pro parte et *Lept. Ammophilæ* Rehm, sed non *Sph. Ammophilæ* Lasch. — **Lept. culmorum** Auersw. var. **hungarica** Rehm *Ascom.* n. 941: peritheciis plerumque gregariis in maculis subatris. In calamis Luzulæ albidæ, Eperjes Hungariæ.

## IV. In Acotyledoneis.

145. **Leptosphæria lycopodica** Peck 38 *St. Rep. Mus.* pag. 105, 3249  
tab. 2, fig. 16-19. — Peritheciis minutis, 120-150  $\mu$ . diam., sphæroideis vel ellipsoideis, erumpentibus, nigris, ascis subcylindræis, subsessilibus, 65-75  $\approx$  8-10; sporidiis oblongis vel subfusiformibus, pallide coloratis, 3-5-septatis, 20-25  $\approx$  4-5; paraphysibus filiformibus.

*Hab.* in pedunculis emortuis Lycopodii clavati in montibus Adirondack Amer. bor. — **Lept. helvetica** Sacc. et Sp. — *Syll.* II, p. 80. — Var. **major** Rehm *Ascom.* III, n. 884: a typo differt sporidiis multo majoribus, 18-24  $\approx$  6, hyalinis, 3-septatis; ascis 90-18. An potius ætatis gradus?

146. **Leptosphæria apocalypta** (Rehm) Winter *Die Pilze* II, p. 442, 8250  
*Xenosphæria apocalypta* Rehm *Ascomyc.* n, 346, — Peritheciis sparsis vel subgregariis, superficialibus, majusculis, fere globosis, atris, minute papillatis, guttulas oleosas seriatim dispositas continentibus; ascis clavatis, tunica apice incrassata, 4-6-sporis, 100-120  $\approx$  12; sporidiis monostichis, late ellipsoideis vel oblongis, sæpe curvis vel inæquilateralibus, 4-8-cellularibus, obscure brunneis, 24-31  $\approx$  9-10, 5; paraphysibus? crassis, guttulis longe filiformibus.

*Hab.* in superficie thalli *Stereocauli alpini* in Germania.

147. **Leptosphæria Sphyridiana** (Lahm) Winter *Die Pilze* II, p. 442, 3251  
*Xenosphæria Sphyridiana* Lahm in litt. et in Arnold *Lichen.* *Fragm.* XVI, pag. 29. — Peritheciis punctiformibus, nigris, thallo immersis; ascis cylindræis, elongatis, 8-sporis, paraphysibus distichis, validis obvallatis; sporidiis 4-cellularibus, sæpe 4-guttulatis, medio leniter constrictis, utrinque obtusis, brunneis, 24-27  $\approx$  6-9.

*Hab.* in pagina superiore thalli *Sphyridii fungiformis* in Germania.

148. **Leptosphæria stereicola** Ellis Amer. Nat. 1883, p. 317. — Pe. 3252  
 ritheciis erumpentibus, hemisphæricis, nigris, rugosis,  $\frac{1}{9}$  mm. diam.,  
 ostiolo acute papillato; ascis subcylindricis,  $57 \approx 7,5-8$ , paraphysa-  
 tis (?); sporidiis biseriatis, oblongo-fusoideis, 3-septatis, fuligineis,  
 11-13  $\approx 3-3,5$ .

*Hab.* in hymenio Sterei bicoloris, Decorah. Jowa Amer.  
 bor. (E. W. HOLWAY).

149. **Leptosphæria fungicola** Winter. in Hedwigia 1886, p. 101. — 3253  
 Peritheciis sparsis, superficialibus (an semper?), minutissimis, glo-  
 bosis, poro simplici pertusis, membranaceis, atris, glabris, 100  $\mu$ .  
 diam.; ascis obclavatis, e basi lata sursum longe attenuatis, sessili-  
 bus, 8-sporis, 30-44  $\approx 9-10,5$ ; sporidiis conglobatis, fusiformibus,  
 inæquilateralibus vel parum curvatis, 5-septatis, cellula tertia la-  
 tissima, dilutissime viridulis, 12-16  $\approx 3,5$ .

*Hab.* in hymenio Sterei subpileati vetusto in insula S.  
 Thomè Afr. occ.

150. **Leptosphæria Coræ** Pat. Journ. Bot. 1888, p. 150, f. 5. — Pe. 3254  
 ritheciis numerosis, sparsis, nigris, subglobosis,  $\frac{1}{3}-\frac{1}{2}$  mm. diam.,  
 innatis dein emergentibus, hyphis mycelicis brunneis affixis, ostiolo  
 dein late aperto; ascis ventricosis, subsessilibus, 80  $\approx 25$ , apice in-  
 crassato, tenuato-rotundato; sporidiis octonis, ovato-oblongis, 5-  
 septatis, non constrictis, pallide fuligineis, 20-24  $\approx 6-7$ .

*Hab.* in thallo Coræ Pavoniæ in Amer. centr. — Asci jodo  
 cærulescentes v. partim roseo-violascentes.

151. **Leptosphæria marina** Rostr. Journ. Bot. Copenhag. XVII, p. 234. 3255  
 — Peritheciis in matrice atrata gregariis, globosis, tectis; ascis  
 fusoideis paraphysatis, 8-sporis, 50  $\approx 10$ ; sporidiis fusoideis, pallide  
 flavescentibus, 1-3-septatis, 16  $\approx 4$ .

*Hab.* in thallo Chondri crispici ad littora marina Daniæ. —  
 Maculæ in matrice 1-2 mm. diam.

**CHITONOSPORA** Bomm. Rouss. Sacc. nov. gen. (Etym. *chiton* tunica  
 et *spora*). — Perithecia subglobosa, papillata, atra, subcutanea,  
 submembranacea. Asci elongati, facile evanidi, paraphysati. Spori-  
 dia ellipsoideo-oblonga, subtriseptata, episporio crassissimo fuligi-  
 neo, endosporio subhyalino prædita.

1. **Chitonospora ammophila** Bomm. Rouss. Sacc. sp. n. — Peritheciis 3256  
 glabris, 300  $\mu$ . diam., epidermide leniter atrata tectis, ostiolo brevi  
 conoideo epidermidem perforante; ascis crassis, cylindræis, sessili-  
 bus, 75-90  $\approx 15-16$ ; paraphysibus ramulosis, flexuosis, guttulatis,

parum distinctis; sporidiis compressis, tereti-ellipsoideis, subinde utrinque obtuse mucronulatis, fuligineis, 3-septatis, 24-27 = 12-15, episporio denique inæqualiter lacerato et endosporium didymum, 3-septatum 21-22 = 9 subhyalinum relinquente.

*Hab.* in foliis emortuis *Psammæ arenariæ*, Ostende Belgii.

— Sporidia sæpe medio opacissima, septa celant et quum utrinque sint pallidiora, *samaram* imitantur.

**HEPTAMERIA** Rehm et Thuem. — Sacc. Syll. II, p. 88.

1. **Heptameria uncinata** (Niessl) Rehm Ascomyc. fasc. XV, n. 735. 3257

*Leptosphaeria uncinata* Niessl in litt. *Lept. obesa* Rehm Ascomyc. Lojk. pag. 54, n. 70. — Peritheciis parenchymaticis, brunneis, ascis clavatis, octosporis, 150 = 18; sporidiis fusoides, rectis vel subcurvatis, acutatis, 9-cellularibus, cellula media magna, 9  $\mu$ . longa, fusca nucleo magno, centrali prædita, ceteris cellulis latiore 42 = 5, distichis; cellulis lateralibus fuscidulis; paraphysibus ramosis.

*Hab.* ad caules siccos *Artemisiæ campestris* in horto Eszterházyano Kaposvar (Somogy) (LOJKA) et prope Brünn in Moravia (NIESSL). — Species quoad sporidia egregia!

**CLYPEOSPHÆRIA** Fuck. — Sacc. Syll, II, p. 90.

1. **Clypeosphæria Morreni** (West.) Sacc. in Rev. Myc. 1884. A *Cly-* 3258

*peosphæria Notarisii*, cui peraffinis, ascis 98 = 8-10; sporidiis cylindræis, curvulis, utrinque rotundatis, 20-21 = 4,5, 3-septatis, non constrictis, fuligineis dignoscitur.

*Hab.* in caulibus *Epilobii spicati*, Louette-Saint Pierre Galliæ (G. AUBERT).

2. **Clypeosphæria Asparagi** Fuck. Wint. Hedw. 1887, p. 62. — Pe- 3259

ritheciis plerumque gregariis, rarius sparsis 2-pluribus confertis, semper peridermio aterrino tectis, globosis, ostiolo papilliformi prominulis, membranaceis, atris, 250-300  $\mu$ . diam.; ascis anguste clavatis, deorsum longe attenuatis, 8-sporis, 66-77 = 8-9; sporidiis indistincte distichis, fusoides, plerumque curvatis, 3-4-septatis, loculo secundo valde incrassatis, 21-28 = 4, luteolis; paraphysibus filiformibus.

*Hab.* in caulibus *Asparagi officinalis* in Rhenogovia. — Sec. Winter l. c. eadem ac *Diap. Asparagi* Fuck.

**CHÆTOSPHÆRIA** Tul. — Sacc. Syll. II, p. 92.

1. **Chætosphæria ornata** Harkn. New Calif. Fungi p. 25. — Pe- 3260  
 ritheciis superficialibus, orbicularibus, nigris, non rugosis, 360  $\mu$ .  
 diam., setis hyphoideis,  $\frac{1}{2}$  mm. vel amplius longis, nigris, non acu-  
 minatis, quandoque septatis; ascis octosporis, clavatis, in pedicellum  
 longum, guttulis oleosis vel granulis farctum, desinentibus 100  $\approx$   
 8-10; paraphysibus vix visibilibus; sporidiis fusiformibus, triseptatis,  
 loculo medio olivaceo-brunneo, extimis hyalinis, 16  $\approx$  6.

*Hab.* in corticibus putridis Eucalypti, San Francisco Cali-  
 forniæ.

2. **Chætosphæria Saccardiana** Schulz. in Rev. Myc. 1884 et III. Fung. 3261  
 Slav. n. 74. — Peritheciis densiuscule gregariis, globoso-depressis,  
 subsuperficialibus,  $\frac{1}{3}$  mm. diam., nigris rugulosis, hyphulis laxè  
 vestitis; ostiolo cylindræo, truncato, perithecio plus quam dimidio  
 breviorè; ascis tereti-clavatis, brevè stipitatis, paraphysatis, octo-  
 sporis; sporidiis subdistichis oblongo-fusoideis, medio constrictis,  
 1-dein, 3-septatis 4-guttulatis, sæpius curvulis, utrinque obtusiu-  
 sculis, dilute fuscis.

*Hab.* in ligno putrescente Carpini in Slavonia, socia forma  
 conidiophora *Helminthosporioidea*.

3. **Chætosphæria pezizæformis** Schulz. in Rev. Myc. 1884 et III. 3262  
 Fung. Slav. n. 62. — Peritheciis laxè v. dense gregariis, globosis,  
 superficialibus,  $\frac{1}{6}$ - $\frac{1}{4}$  mm. diam., e lutescenti nigris, asperulis, in-  
 ter hyphas demetiaceas (*Helminthosporii obclavati*) interspersis,  
 apice convexis, tandem collabascendo umbilicato-subpezizæformibus;  
 ascis crasse clavatis, deorsum acuminatis, brevissime stipitatis,  
 indistinctè paraphysatis, octosporis; sporidiis subtristichis, fusoides,  
 incurvatis utrinque obtuse attenuatis, 7-septatis, ad septa non con-  
 strictis, 44-50  $\approx$  8-10, fusco-lutescentibus, oculis extimis hyalinis.

*Hab.* in ramis decorticatis Carpini Betuli, Vinkovce Sla-  
 voniæ.

4. **Chætosphæria rubiginosa** (Cooke) Sacc. *Byssosphæria rubiginosa* 3263  
 Cooke in Grev. XV, p. 80, *Gibbera rubiginosa* Cooke in Herb.  
 — Peritheciis gregariis, superficialibus, subiculo tenui, filamentoso  
 fusco insidentibus, globosis, atro-rubiginosis, subrugulosis, ostiolo  
 impresso; ascis clavato-cylindricis, 8-sporis; sporidiis biserialibus,  
 lanceolatis, triseptatis, medio constrictis, hyalinis, demum pallide  
 fuscis, 20-24  $\approx$  4-6.

*Hab.* in ligno putri, Poughkeepsie, New York Amer. bor.

5. **Chætosphæria longipila** Peck 42 Rep. p. 35. — Peritheciis minu- 3264  
tissimis, gregariis, subiculo ex hyphis cinereis vel griseolo-brun-  
neis, longissimis gracilibus, arachnoideis insidentibus v. involutis;  
ascis oblanceolatis, p. sp. 40  $\approx$  12,5; sporidiis confertis v. distichis,  
rectis, 3-septatis, loculis mediis coloratis, apicalibus hyalinis, 10-  
12,5  $\approx$  5-6,5.

*Hab.* in doliis vetustis Flatbush Amer. bor. (ZABRISKIE). —  
*C. phæostromati* et *C. phæostromoidi* affinis, sed subiculo palli-  
diore sporidiisque brevioribus et rectis.

6. **Chætosphæria Crepini** Sacc. Bomn. et Rouss. Fl. myc. Belg. II, p. 17. 3265  
— Peritheciis subsphæricis,  $\frac{2}{5}$  mm. diam., ostiolo punctiformi dehi-  
scentibus, tomento brunneo, præcipue basi, obductis, subiculo re-  
pentini, pannoso, brunneo insertis; ascis tereti-clavatis, 8-sporis; pa-  
raphysibus filiformibus copiosis; sporidiis monostichis fusoideo-na-  
vicularibus, hyalinis, 1-septatis, dein olivaceis, 3-septatis, 4-gutta-  
tis, medio contractis, utrinque attenuatis, muticis, 24  $\approx$  7-7,5.

*Hab.* in caulibus siccis *Epilobii hirsuti*, Groenendael Bel-  
gii. — Ab *Herpotrichia Rubi* subiculo copioso, a *Chæt. callimor-  
pha* ostiolo haud cupulato differt.

7. **Chætosphæria holophæa** (B. et C.) Sacc. *Byssosphæria holophæa* 3266  
B. et C. in Cooke Grev. XV, pag. 82. — Peritheciis subglobosis,  
pilosus, gregariis, bysso atro-fusca, rigida, nidulantibus,  $\frac{1}{2}$  mm.  
diam.; ascis clavatis, octosporis; sporidiis biseriatis, elongato-elli-  
pticis, medio constrictis, triseptatis, fuscis, 22-24  $\approx$  8.

*Hab.* ad ramos in Pennsylvania Amer. bor. — In *Chætosphæ-  
ria albo-ferruginea* (Crouan) Sacc. Syll. II, n. 3216, sec. Grev.  
XVI, p. 47, sunt sporidia lanceolata, uniseptata, 4-6-nucleata, de-  
mum forte 3-5-septata, hyalina 45-50  $\approx$  8. Nascitur quoque prope  
Carlisle Britanniae in *Calluna*.

8. **Chætosphæria exilis** (Schw.) Sacc. *Sphæria exilis* Schw. sec. Cooke 3267  
Grev. XV, p. 82. — Peritheciis minutis globosis,  $\frac{1}{8}$  mm. diam.;  
sporidiis fusoideis triseptatis, brunneis, 16-18  $\approx$  5.

*Hab.* in lignis putridis, Nazareth Amer. bor.

9. **Chætosphæria squamulata** (Schw.) Sacc. *Sphæria* Schw. sec. Cooke  
Grev. XV, p. 83, Sacc. Syll. II, n. 4290. — Sporidia lanceolata,  
3-5-septata, fusca, 20-40  $\mu$ . longa.

**OHLERIA** Fuck. — Syll. II, p. 96, Berl. Ic. I, p. 28.

1. **Ohleria adjecta** Passer. Diagn. F. N. I, n. 53. — Peritheciis in 3268  
ligno exarido et nigrificato sparsis v. subgregariis, parvulis, sphæ-