vor sich geht, nämlich durch einfache Diffusion durch die Zellwand.

Ausser den angeführten Species habe ich keine *Malvaceen* zu untersuchen Gelegenheit gehabt, es ist aber wahrscheinlich, dass noch viele andere Vertreter dieser grossen Familie gleiche oder ähnliche Nectarien besitzen.

(Fortsetzung folgt.)

Diagnosen zu Thümen's „Mycotheca universalis."

Von F. von Thümen.

(Fortsetzung.)

Leptosphaeria Bellynckii Wint. — *Sphaeria Bellynckii* Westd. in Bull. de l'Acad. de Bruxelles 1859. VII. p. 366. fig. 13. — *Myc. univ.* no. 1061.

Helvetia: Zürich ad *Polygonati multiflori* Desf. caules aridos. Vere 1876. leg. Dr. Winter.

Linospora Tremulae Morth. — *Myc. univ.* no. 1154.

Fungus pycnidium: Leptothyrium Tremulae Lib. (Thümen, Mycotheca universalis no. 1080.)

Fungus ascophorus: L. peritheciis gregariis, minutis, ostiolis brevissimis in macula angulata, atra; ascis breviter stipitatis, elongato-cylindraceis, curvatis, octisporis, 150 mm. long., 8 mm. crass.; sporis filiformibus, utrinque acuminatis, pallide luteis, asci longitudine.

Helvetia: Corçelles pr. Neuchâtel ad paginam inferiorem foliorum *Populi Tremulae* Lin. Maio 1878.

leg. Dr. P. Morthier.

Gnomonia ulmea Thüm. in Flora 1878. p. 178. — *Sphaeria ulmea* Fr. Syst. mycol. II. p. 436. — *Xyloma ulmeum* Schweinz. Syn. fung. Carol. p. 55. no. 288. — *Mycoth. univ.* no. 1155.

America septentr.: Aiken — Carolina australis — in foliis emortuis *Ulmi americanae* Lin. 1876. leg. H. W. Ravenel.

Thuemenia Rehm nov. gen. Pyrenocarpeorum.

Perithecia aggregata, minima, ex matrice nigerrima oriunda, dein elevata, conoideo-subpapillata, apice vix pertusa, nigerrima, corticem, sub qua matrix habitat, in plagis hysteriformibus plerumque verticaliter diffindentia itaque lirellas ater-

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rimas, peritheciis prominentibus seu elevatis praebentia. Asci clavati, longe stipitati, crassi, in primis vertice incrassati: sporidia disticha, octo, obtusorhomboidea, uni-, tri — plurinucleata, unicellulares. Paraphyses paucae, ramosae, articulatae. Jodo addito apex ascorum non coerulescit.

Juxta ad *Otthiam* Fuck. locum teneatur, quamvis perithecia primitus matrice subimmersa videntur. Sporarum forma etc. plane diversa ab vicinis.

Thuemenia Wisteriae Rehm. — *Myc. univ.* no. 971.

Th. characteris generis, ascis 150 mm. long., 16—18 mm. crass., sporis 18—21 mm. long., 8 mm. crass.

America septentrionalis: Aiken — Carolina australis — in ramulis emortuis *Wisteriae chinensis* De C. 1876. (no. 2270.)

leg. H. W. Ravenel.

Cucurbitaria Caraganae Karst. — *Myc. univ.* no. 1066.

Species *Cucurbitariae Laburni* Fr. affinis, sed peritheciis firmioribus, fusco-atris, laevibus, aliisque notis differens.

Fennia: Mustiala in ramis frigore enecatis *Caraganae arborescentis* Lam., frequenter. Hieme 1877.

leg. Dr. P. A. Karsten.

Hysterium culmifragum Spegaz. — *Myc. univ.* no. 977.

H. peritheciis subcarbonaceis, atris, fusoideo-elongantis, 0.5—1.5 mm. longis, 80—100 mm. latis, lima longitudinali donatis; ascis ovoideo ellipticis, breve et crassiuscule stipitatis, crasse tunicatis, octisporis, paraphysatis, 50—65 mm. long., 14—16 mm. crass., sporidiis hyalinis, primo uniseptatis, dein triseptato-muriformibus, pluriguttulatis, ad septas parum constrictis, 15—16 mm. long., 6—6.5 mm. crass.

Venetia: Conegliano in culmis emortuis dies intemperiis expositis *Secalis cerealis* Lin. Oct. 1877. leg. C. Spegazzini.

Hypoderma lineare Peck in litt. ad me. — *Rhytisma lineare* Peck in XXV. Rep. New-York State Museum p. 100. Tab. I. fig. 24—26. — *Myc. univ.* no. 1073.

America septentr.: Albany—New-York — ad folia viva aridaque *Pini Strobi* Lin. Aest. 1877. leg. Ch. H. Peck.

Dermatea acericola Peck in litt. ad me. — *Nodularia acericola* Peck in XXV. Rep. New-York State Mus. Nat. Hist. p. 98. — *Myc. univ.* no. 978.

America septentr.: Adirondack Mountains — New-York — in cortice *Aceris spicati* Lam. Aest. 1877. leg. Ch. H. Peck.

Macrosporium hibiscinum Thüm. — *Myc. univ.* no. 979.

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M. acervulis magnis, late effusis, velutinis, subinquinantibus, tenuibus, obscure olivaceo-fuscis; hyphis sublongis, plus minus erectis, ramosis, subaequalibus, longe articulatis, minime flexuosis, fuscis; sporis longe clavatis, 8—14 septatis, ad septas constrictis, vertice rotundatis, basi in pedicello longo, curvulato angustatis, griseo fuscis, subdiaphanis, 60—80 mm. long., 16—20 mm. crass., (cum pedicello), pedicellis sursum incrassatis, pallidioribus.

America septentr.: Aiken — Carolina australis — ad *Hibisci escidenti* Lin. caules emortuos 1877. (no. 2247.)

leg. H. W. Ravenel.

Helminthosporium Hydropiperis Thüm. — *Myc. univ.* no. 1087.

H. caespitibus hypophyllis, plerumque foliam totam occupans, velutinis, effusis, tenuibus, olivaceis, densis; hyphis erectis, subrectis, simplicibus, non vel vix septatis, tenuibus, brevibus, dilute fuscis; sporis longe clavatis, subcurvatis, apice dilatatis, vertice angustatis, subacutatis, 6—10 septatis ad septas non constrictis, cum nucleo hyalino unico in cellulis omnibus, dilute fuscis, 50—60 mm. long., 8—10 mm. crass.

America septentr.: Aiken — Carolina australis — ad *Polygoni Hydropiperis* Lin. (*P. acris* Lam.) folia viva. 1876.

leg. H. W. Ravenel.

Helminthosporium donacinum Thüm. — *Myc. univ.* no. 1166.

H. acervulis epiphyllis, indeterminatis, tenuibus, detergilibus, divergentibus, sordide griseis; hyphis numerosis, subfasciculatis, tenuibus, continuis, simplicibus, multiarticulatis, subrectis vel curvulatis, griseis; sporis anguste ellipsoideis, uniseptatis, utrinque acutatis, dilute cinereo-griseis, 7—8 mm. long., 5 mm. crass.

Graecia: Athenae ad folia emortua *Donacis arundinaceae* Beauv. socia saepe *Cladosporii herbari* Lk. Vere 1877.

leg. de Heldreich.

Septosporium Lupini Thüm. — *Myc. univ.* no. 1171.

H. caespitibus amphigenis, magnis, late effusis, indeterminatis, irregularibus, viride-olivaceis, tenuibus; hyphis brevibus, flexuosis, continuis, subramosis, rectis, tenuibus, inaequalibus, dilute cinereis; sporis fusiformibus, minime curvatis vel rectis, utrinque angustato-subacutatis, septemseptatis, ad septas non constrictis, 60—66 mm. long., 4—5 mm., crass., dilute subflavido-griseis, pellucidis.

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America septentr.: Aiken — Carolina australis — ad *Lupini diffusi* Nutt. folia viva. 1876. (no. 2213.)
leg. H. W. Ravenel.

Mystrosporium consors Thüm. — *Myc. univ.* no. 1172.

M. acervulis amphigenis, laxis, late effusis, gregariis, obliteratis, pulveraceis, atris; hyphis multiramosis, suberectis, subtortuosis, crassis, septatis, fuscis; sporis plus minusve ellipsoideis, multiseptatis, longitudinaliter transversaliterque septatis, ad septas constrictis, utrinque acutato-angustatis, brevipedicellatis, griseis, subdiaphanis, 30—38 mm. long., 16—18 mm. crass.; sporis junioribus ovalibus, uni — triseptatis, pallidioribus.

America septentr.: Aiken — Carolina australis — ad folia emortua adhuc pendula *Gynerii argentei* Nees a. Es. semper socia *Cladosporii herbari* Lk. 1876. (no. 2258.)
leg. H. W. Ravenel.

Obs. Meae sententiae melius Macrosporium sed cl. Berkeley in litt. ad me ad Mystrosporium tinget!

Ramularia microspora Thüm. in Oesterr. bot. Zeitschrift 1877 p. 272. — *Myc. univ.* no. 982.

R. caespitibus laxis, tenuibus, albidis, postremo in macula brunnea, hypophyllis; hyphis tenuibus, continuis, simplicibus, hyalinis; sporidiis cylindraceis vel angustate ellipticis, utrinque rotundatis, rectis, simplicibus, 6—8 mm. long., 3 mm. crass., achrois.

Austria inf.: Krems ad *Teucrii Chamaedryos* Lin. folia viva. Rarissime. Julio 1876. leg. de Thümen.

Cercospora rosaecola Pass. — *Myc. univ.* no. 1086.

Caespituli epiphylli in macula fusco-rufa, centro expallescente, aggregati, punctiformes; hyphae fasciculatae, fuscidulae, breves, integrae, rectae vel subflexuosae; sporae elongato-subclavatae, hyphas subaequantes, hyalinae, simplices vel obscure septatae.

Parma: in Rosarum cultarum foliis adhuc vivis. Aest. 1874.
leg. Prof. Passerini.

Sporotrichum malagense Thüm. — *Myc. univ.* no. 1173.

Sp. caespitulis vel acervulis gregariis, saepe confluentibus, magnis, lanosis, distinctis, elevatis vel plus minusve hemisphaerico-orbiculatis, molle-laxis, aureis, demum sordide lateritiis; hyphis brevibus, dense intricatis, non septatis, hyalinis, tenuissimis; sporis numerosis, globosis, inspersis, pellucidis,

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dilute flavescentibus vel subhyalinis, plerumque conglobatis vel etiam solitariis, 1—1.5 mm. diam.

Austria inferior: Klosterneuburg ad acinos *Vitis viniferae* Lin. longe diu aservatos et corruptos, vulgo „Malaga-Cibeben" dictos, socia saepe *Coremii vulgaris* Cda. Aug. 1878.

leg. de Thümen.

Oidium Violae Pass. in Thüm. Herb. mycol. oeconom. no. 417. — *Myc. univ.* no. 1176.

O. mycelio arachnoideo, effuso, persistente, conidiis amplis, oblongis, moniliformibus, concatenatis, tandum solutis, ellipticis, apicibus aequalibus, rotundatis.

Parma: in horto botanico ad *Violae tricoloris* Lin. cultae folia viva. Vere 1875. leg. Prof. G. Passerini.

Oidium Drummondii Thüm. — *Myc. univ.* no. 1177.

O. caespitibus amphigenis, pulveraceis, late effusis, laxis e pallide roseo griseo-albidis, indeterminatis, tenuibus, subdetergibilibus; hyphis erectis, brevibus, rectis, ramosis, crassis, non (an semper?) septatis, hyalinis, diaphanis, apice obtuso; sporis longe ellipticis vel fere late elliptico-cylindraceis, utrinque rotundatis, obtusis, hyalinis, pellucidis, 20—24 mm. long., 14—16 mm. crass.

America septentr.: Aiken — Carolina australis — ad folia viva *Phlogis Drummondii* Hook. 1876. (no. 2274.)

leg. H. W. Ravenel.

Melasmia punctata Thüm. — *Myc. univ.* no. 988.

M. peritheciis epi- raro etiam hypophyllis, plus minus orbiculatis, planis, atris, rugulosis, tandum confluentibus, solitariis sed soras gregarias formans, in macula subarida, flavescentia, amphigena, irregularia, magna, non cincta plus minus concentrice dispositis; sporis cylindraceis, rectis, simplicibus, utrinque truncatis, hyalinis, 4.5—7 mm. long., 1.5 mm. crass., numerosis.

Austria inferior.: Dornbach ad *Aceris campestris* Lin. folia viva. Aest. 1877. leg. de Thümen.

Obs. *Rhytismatis punctati* Pers. (non Rabh. in Klotsch Herb. mycol. Ser. II. no. 740. ut planta mea) fungus spermogonicus.

Leptothyrium carpophilum Pass. — *Myc. univ.* no. 1081.

Maculae subdiscoideae vel confluentes, fusco-atrae; perithecia sparsa, atra, conico-depressa, basi circumcissa secedentia; sporae elongato-fusiformes, curvae vel flexuosae, intus nucleolatae, integrae vel obscure septatae, hyalinae.

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Parma: in fructibus *Pyri communis* Lin. serotini servatis. Hieme 1877. leg. Prof. Passerini.

Gloeosporium betulinum Kickx. — *Gloeosporium Betuli* Westd. Cryptog. Belg. no. 978. — *Myc. univ.* no. 1082.

Parma: ad folia languida *Betulae verrucosae* Ehrh. Aut. 1876. leg. Prof. Passerini.

Obs. *Gloeosporium betulinum* Pass. in Thümen, Herb. myc. oecon. no. 189 est *Gloeosporium Betulae* Mntg.

Phoma tamariscinum Thüm. in Oesterr. bot. Zeitschr. 1877. p. 12. — *Myc. univ.* no. 991.

Ph. peritheciis subglobosis, semiimmersis, erumpentibus, gregariis, minutis, atris; sporis minimis, cylindraceis, rectis vel minime curvatis, utrinque obtusatis, sine nucleo, vitreis, 5—6 mm. long., 1—1.5 mm. crass.

Austria inferior: Krems in *Tamariscis gallicae* Lin. ramulis emortuis sed adhuc pendulis. Raro. Aug. 1876. leg. de Thümen.

Phoma ailanthinum Thüm. — *Myc. univ.* no. 989.

Ph. peritheciis gregariis, epidermide perforantibus, coacervatis, elevatis, liberis, atro-fuscis; sporis globosis vel globoso-ellipticis, numerosissimis, simplicibus, anucleatis, 3—5 mm. ong., 2.5—3 mm. crass., achrois.

Austria inferior: Klosterneuburg in *Ailanthi glandulosae* Desf. ramulis emortuis. Vere 1877. leg. de Thümen.

Phoma innumerabile Thüm. — *Myc. univ.* no. 1079.

Ph. peritheciis hypophyllis, numerosissimis, dense gregariis, maculas maximas, saepe confluentes, griseo-fuscas formans, globosis, minutis, immersis, granulosis, fusco-atris; sporis cylindricis, utrinque subrotundatis, plerumque anucleatis, simplicibus, hyalinis, 2—3 mm. long., 1.5 mm. crass.

America septentr.: Aiken — Carolina australis — ad *Quercus stellatae* Wangh. (*Q. obtusilobae* Mchx.) folia emortua. 1877. leg. H. W. Ravenel.

(Fortsetzung folgt.)

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