

aureas efficientia, tenuissima, sphaeroidea, arescendo collapsa, cupuliformia, poro pertuso nucleumque roseoloalbum prudentia, diam. circiter 50 mmm. Asci cylindracei, basin versus leviter attenuati, longit. circiter 30 mm et crassit. 4 mmm. Sporae 8: nae, oblique monastichae, simplices, eguttulatae, ellipsoideae vel sphaeroideae, hyalinae, longit. 4 mmm., crassit. 2 mmm. aut. diam. 3 mmm. Paraphyses nullae.

Prope Mustiala, in hymenio Sterei subcostati Karst. ad ramos Betulae locis umbrosis dejectis vigentis, ineunte mensi Octobri 1881.

Repertorium.

Rehm, Dr. med. Ascomyceten, in getrockneten Exemplaren herausgegeben.

(S. A. aus dem 26. Bericht des Naturhistor. Vereins in Augsburg.)

Wir haben schon in voriger Nummer Gelegenheit genommen, dieser Arbeit des hochverdienten Forschers zu gedenken, kommen aber heute nochmals ausführlicher darauf zurück. Denn Rehm's hier vorliegendes Werk darf mit Recht als eine der wichtigsten Erscheinungen im Gebiete der Pilz-Systematik bezeichnet werden. Sie enthält eine Fülle der werthvollsten Beobachtungen und kritischen Notizen, ausführliche Beschreibungen der Asci, Sporen und Paraphysen aller 550 bis jetzt ausgegebenen Arten*), sowie vollständige Beschreibungen der zahlreichen neuen Species.

Das Gebiet, das in Rehm's Ascomyceten durch Beiträge vertreten ist, ist ein unbegrenztes: es finden sich Arten aus verschiedenen Theilen Europas, aber auch solche aus Amerika und vom Cap der guten Hoffnung. Innerhalb Europas waren es besonders die Alpen Tirols und Vorarlbergs, sowie Ungarn, woher die Sammlung die zahlreichsten Beiträge brachte. Ferner ist das mittlere Deutschland durch die von Rehm selbst, ferner von Kunze, Magnus, Winter u. A. gesammelten Arten reichlich vertreten. Möchte denn diese werthvolle Sammlung immer neue Freunde sich erwerben; möchten von jetzt an auch Mycologen, die den so erfolgreich thätigen, unermüdlichen Herausgeber bisher noch nicht durch Beiträge unterstützten, ihm ihre Beihilfe bei seiner Sammlung gewähren; kommt dies ja doch Allen zu Gute, die sich mit Pilzen — und Flechten beschäftigen! —

*) Für die Nummern 551—600 finden sich ganz ähnliche Notizen und Beschreibungen in Hedwigia 1881.

Wir lassen, da die Arbeit im Separat-Abdruck nur wenigen Bevorzugten, als Bestandtheil des 26. Berichts des Augsburger Vereines auch verhältnissmässig schwierig zugänglich ist, die Diagnosen der neuen Arten hier folgen, zum Theil auch aus dem Grunde, um ein Bild von dem reichen Inhalte der Sammlung, von der Fülle von Beobachtungen zu geben. Wir brauchen dabei kaum hervorzuheben, dass die Mehrzahl dieser neuen Arten aus den Alpen und aus Ungarn stammt. *)

Ciboria pseudotuberosa Rehm nov. spec. 1870!

syn. *Sclerotinia Batschiana* Zopf 1880! in Zopf et Syd. myc. march. 50 c. icon. *Peziza glandicola* Doass. in Revue myc. No. 10 p. 49. — cfr. Grevillea IV pl. 65. f. 288.

Perithecia gregaria, 2 cm. long., stipitata, stipite tenui, subflexuoso, sicco plerumque longitudinaliter striato, olivaceo, sicca infundibuliformia, subcomplicata, olivaceofusca, humida explanata, subpatellaformia, disco livido-fusco, 5—7 mm. diam. Ascii clavati, 8 spori, — 120/6. Sporidia obtuse-oblonga vel ovata, glabra, 1 cellularia, hyalina, 8—9/4—4, 5, monosticha in superiore ascii parte. Paraphyses filiformes, superne sensim —3 mikr. incrassatae, hyalinae. Jod coerulescit apicem ascorum.

Ad cotyledones putridas quercuum in sylvis prope Windsheim (Franconia bav.)

Dermatea Rhododendri Rehm.

Perithecia per epidermidem fissam erumpentia, plerumque gregaria, sessilia vel brevissime stipitata, primitus plana, orbicularia, distinete marginata, sicca subcorrugata, extus fusca, scabra, disco flavidus vel viridi, parenchymaticae, fusce contexta, margine pseudoprosenchymatica, 0,5—2 mm. diam. Ascii clavati, in stipitem elongati, 8 spori, — 90/—10. Sporidia elliptica vel elongato-ovata, 1 cellularia, plerumque 1—2 nucleolis praedita, denique bicellularia, hyalina, disticha, — 15/—4,5. Paraphyses filiformes, haud clavatae, hyalinae, —2,5 mikr. crassae. Jod coerulescit apicem ascorum.

Ad ramulos siccis rhodod. ferrug. in alpibus editis Tyrolensibus.

Dasyphypha bicolor (Bull. sub *Peziza*) var. *rhododendri* Rehm.

Perithecia subglobosa, dein breviter stipitata, erumpentia, dein sessilia, pilosella, extus hyalina-rosella, disco rubicundo, 2—3 congregata, — 0,8 mm. diam., senilia disco

*) Die neuen Arten des 1. und 2. Fascikels der Rehm'schen Ascomyceten wurden vom Referenten bereits in Flora 1872 beschrieben. Deren Diagnosen sind daher nicht nochmals hier aufgenommen worden.

evanido persistentia. Pili peritheciæ breves, scabri, simplices, flaviduli, obtusi, septati, —3,5 mikr. diam. Ascii clavati, 8 spori, —50/7. Sporidia elliptica, recta vel subcurvata, 1 cellularia, primitus nucleis 2 parvulis praedita, —8/2,5, disticha. Paraphyses sublanceolatae, ascos superantes, apice obtusae, c. 3—4 mikr. diam. Jod —.

Ad ramulos sicclos rhodod. ferrug. in primis in alpibus editis Tyrolensibus.

Dasyscypha calyculaeformis (Schum. sub *Peziza*) Rehm, var. *latebricola* Rehm.

Diffrert a f. normali: sporis ellipticis, haud acuminatis, 1 cellularibus, hyalinis 6—7/2,5, distichis in ascis clavatis 40—45/6, 8 sporis. Paraphyses lanceolatae, apice acuminatae et ascos superantes, —4 mikr. crassae. Pili peritheciæ filiformes, obtusi, scabri, fusci, —6 mikr. crassi. Jod coerulescit apicem ascorum. Peritheciū prosenchymaticum.

Ad ramulos putridos in primis rhodod. ferrug. in alpibus editis Tyrolensibus.

Dasyscypha fuscosanguinea Rehm nov. spec.

syn. *Peziza arida* Phill. in Grevilla 5 p. 117. tab. 89 f. 13. gehört nach einem Exemplar von Ellis aus der Sierra-Nevada als var. hieher.

Perithecia sparsa, primitus globosa, hirta, dein breviter stipitata, stipite c. 1 mm. longo, patellaeformia, extus cum stipite parum crasso fusco-badia, villosa, sicca vario modo complicata, humectata explanata, disco plano, recenti sanguineo-roseo, exsiccato roseo-flavido, —3 mm. diam., orbicularia, prosenchymatice contexta, pilis brevibus, scabris, obtusis, simplicibus, fuscis, septatis, —0,5 mikr. crassis obsessa, margine flavido-ciliata. Ascii clavati, 8 spori 70/—10; sporidia obtuse-elliptica vel ovato-elongata, interdum subbiscoctiformia, 1 cellularia, hyalina, disticha, —15/—5, recta. Paraphyses rigidae, filiformes, haud clavatae, fuscidulae; —2 mm. crassae. Jod. —.

Ad ramos sicclos pini cembrae et pumilionis in alpibus editis Tyrolensibus.

Dasyscypha Winteri (Cooke sub *Peziza*) Rehm.

cfr. Cooke in Grevillea IV p. 67. — syn. *Dasyscypha Kneiffii* Rehm (non = *Peziza Kneiffii* Wallr., quae sec. Cooke in Grevillea l. c. = *Eustegia arundinacea* Fr.)

Sporen hyalin, stäbchenförmig, gerade, 1zellig, —9/1,5; 8 2reihig in keuligen Schläuchen, 45/—7. Paraphysen lancettförmig, spitz, hyalin, c. 5 mikr. dick. Haare gelblich, 1fach, c. 6 mikr. dick. Jod bläut den Schlauchporus.

Dasyoscypha controversa (Cooke sub *Peziza*) Rehm.
cfr. Grevillea IV p. 41, tab. 51. f. 264. — exs. Phillips
elv. brit. 70. Thümen myc. un. 16 (?Rabh. f. eur. 1815
sub *Belonidium littoreum*).

Sporen elliptisch, gerade, 1zellig, hyalin, 6|—1,5;
8 2reihig in keuligen Schläuchen 36|—5. Paraphysen lancett-
förmig, spitz, hyalin. Haare fädig, stumpf, hyalin c. 4—5
mikr. dick. Jod bläut den Schlauchporus.

Pezizella tyrolensis Rehm nov. spec.

Perithecia plerumque sparsa, rarius gregaria, sessilia,
primitus globosula, dein substipitata et explanata, sicca
juniora aureo-vel aurantiaco-flavido, scabra, concava, plicata
margin'e subfimbriata et rugosa, dein explanata, disciformia,
haud distinete marginata, margin'e albido-fimbriata, humida
flavida, expansa, prosenchymatice flavidule contexta, — 1 mm.
diam. Ascii clavati, apice incrassati, 8 spori, — 60|—8;
Sporidia oblonga vel obtuse-oblongato-elliptica, recta, 1 cellu-
laria, hyalina, 6—9|2,5, saepe 1—2 nucleolis praedita. Para-
physes filiformes, apice haud clavatae, hyalinae, c. 2 mikr.
diam. Jod coerulescit apicem ascorum.

Ad caules putrescentes cirsii spinosiss. ad glaciem aeter-
nam alpium editarum Tyrolensium.

Habrostictis diaphana Rehm var. *alpigena* Rehm.

Perithecia aurantiaca, primitus immersa, dein sessilia,
peritheciis C. fusarioidis extus simillima, parenchymatice
contexta, dilute flavidula, hyphis teneribus, brevibus, hyalinis
insidentia. Ascii clavati, apice incrassati, 50—70|9—12.
Sporidia obtuse-oblonga, 1—2 cellularia, hyalina, — 12|—5;
4 (rarissime 8) transverse 1 $\frac{1}{2}$ sticha. Paraphyses filiformes
superne clavula elliptica hyalina, c. 3 mikr. crassa praeditae.
Jod violascit apicem ascorum

Ad caules putrescentes cirsii spinosiss. etc. prope glacies
aeternas alpium editiss. Tyrolensium.

Pseudographis Arnoldi Rehm nov. spec. (sub *Bli-*
tridium.)

Perithecia primitus sub epidermide nidulantia, clausa,
dein epidermide dilacerata cincta, emergentia, denique
sessilia, plana, margine crasso, 4—7 vel septies dilacerato,
denique subintegro cincta, atra, fere orbicularia, — 1 mm.
diam. Hypothecium fuscidulum. Ascii clavati, apice incrassati,
8 spori, — 120|14. Sporidia obtuse elliptica, 1—2 sticha,
2— dein 4 cellularia, primitus circulo gelatinoso crasso cincta,
dein libera et ad septa perparum constricta, hyalina, — 18|5.
Paraphyses ramosae, tenerae, superne fuscidulae. Jod —.

Ad ramulos sicclos rhodod. ferrug. in alpibus elatioribus
Tyrolensibus.

Stictis foveolaris Rehm nov. sp. 1872.

Perithecia in ligni decorticati supremo strato immersa lignique superficiem flavescentia vel dealbantia, gregaria, plerumque seriata, urceolata, pallida vel rubescens, orbicularia vel ellipsoidea, ligni annulo cincta, c. 0,3—5 mm. diam. Ascii clavati, 36/6, 8 spori. Sporidia disticha, oblonga, obtusa, interdum subcurvata, hyalina, 1 cellularia 6—8/2—2,5. Paraphyses hyalinae, filiformes apice clavula rotunda, c. 3 mikr. crassa praeditae. Hypothecium hyalinum. Jodii ope hymenium dilute coerulescit, mox rubescit.

Ad ramulos querneos siccios decorticatos in sylvis Franconiae mediae.

Spharella araneosa Rehm nov. spec.

cfr. Arnold Flora 1874, Fragm. 16, t. II f. 22, 23; z. bot. Vhdgen. 1875, XIV p. 38, 1877, p. 545, XIII p. 281. —

Hyphae fuscae, septatae, c. 8 mikr. crassae, araneae modo thallum et discum apotheciorum nigro-maculantes. Perithecia sparsa vel gregaria, minima, oculo nudo vix perspicua, atra, parenchymatice fusco-contexta, globosa. Ascii pyriformes, sessiles, apice incrassati, 36—40/15, in singulis peritheciis quaterni, vario stadio inaequaliter evoluti. Sporidia obtuse biscoetiformia, bicellularia, utraque cellula nucleo 1 magno vel 2 minoribus praedita, 12—14/6—7, primitus hyalina, dein fuscidula, 8 disticha. Paraphyses desunt. Jod —.

Amphisphaeria pinicola Rehm nov. spec. 1872.

syn. *Didymosphaeria alpina* Haszl. in Közlem. 1873. p. 49.

Perithecia sparsa, erumpentia, dein in cortice sessilia, semiglobosa, breviter papillata poroque pertusa, dimidiata, atra c. 0,5 mm. diam. Ascii cylindraceo-clavati, crassi, (4—6—) 8 spori, 120/15. Sporidia elliptica, medio constricta, massa granulosa repleta, primitus 1, dein 2 cellularia, hyalina, denique fusca, 21—24/9—10 plerumque monosticha. Paraphyses numerosissimae, parce ramosae. Jod coerulescit hymenium.

Ad ramos siccios pini pumilionis et Mughi in alpibus editioribus Tyrolensisibus.

Pleospora herbarum Rabh. f. *foliicola* Rehm.

Sporen mehr weniger eiförmig, stumpf, oft in der Mitte etwas eingeschnürt, quer 8zellig, diese 1—2 fach senkrecht getheilt, gelb, —39/15; 8 2reihig in keuligen, dickwandigen Schläuchen 120/24. Paraphysen ästig, artikulirt. Jod färbt das episporium blaugrün.

Niptera maculans Rehm nov. spec.

Perithecia sessilia, sparsa, primitus urceolata, margine vix albidulo, dein humida explanata, disco subplano patellaria,

disco albido-cinereo, perithecio extus fuscidulo parenchymatico, contexta, sicca irregulariter rugulosa, plicata, fusco-nigra, c. 0,3 mm. diam. Calamis, quos incolit, ut videtur reliquis vel initii peritheciorum nigromaculatis. Asci clavati, apice subincrassati, 8 spori, 30—42/6—7. Sporidia obtuse elliptica recta vel subcurvata, 1 cellularia, hyalina, disticha, 9—10/2—3. Paraphyses filiformes, apice haud clavatae nec tinctae. Jod coerulescit apicem ascorum.

Ad calamos sicclos nardi strictae in alpibus editioribus Tyrolensibus juxta glaciem aeternam.

Dasyphypha rosea Rehm nov. spec.

Perithecia plerumque sparsa, interdum bina, brevissime stipitata, cyathoidea, pilosa, sicca plerumque complicata vel urceolata, albido-rosea, humida concava, urceolata, disco roseo, margine albido-fimbriato, c. 1 mm. diam.; prosenchymatice contexta, c. 0,5 mm. diam.; pilis brevibus, subscabris, septatis, apice subincrassatis et saepe crystallis conglomeratis coronatis, hyalinis, 5—6 mikr. crass. obsessa. Asci clavati, 8 spori, 45—50/6. Sporidia oblongo-elliptica, plerumque nucleis 2 parvulis praedita, recta, obtusa, hyalina, 1 cellularia, disticha, —24/1,5. Paraphyses lanceolatae, acutae, ascos superantes, hyalinae, basi c. 4 mikr. crassae. Jod dilute apicem ascorum coerulescit.

Ad calamos sicclos in alpibus Tyrolensibus juxta glaciem aeternam.

Helotium spicarum Rehm nov. spec.

Perithecia plerumque sparsa, turbinata, breviter crasse stipitata, c. 1 mm. alt.; sicca fusca, glabra, stipite plerumque dilutiore, urceolata, subclausa, humida aperta, flavescentia, 0,5—7 diam., prosenchymatice contexta. Asci clavati, apice incrassati, 8 spori, 40/5—6; sporidia oblonga vel subfusiformia, obtusa, plerumque recta, 1 cellularia, hyalina, disticha, 6—8/2. Paraphyses filiformes, apice vix incrassatae, hyalinae. Jod coerulescit apicem ascorum.

Ad calamos sicclos nardi strictae in alpibus editioribus Tyrolensibus juxta glaciem aeternam.

Dasyphypha calycioides Rehm nov. spec.

Perithecia sparsa, distincte plus minusve stipitata, stipite filiformi, plerumque curvato, nigrofuscidulo, 0,3—8 mm. lg., cyathoidea, badiostrigosa, c. 0,3 mm. diam.; disco flavidulo, prosenchymatice flavidule contexta, pilis fuscis, distincte articulatis, obtusis, apice subscabris, c. 6 mikr. crassis, longis obsessa. Asci clavati, 8 spori, 36—45/6. Sporidia elliptica, plerumque recta, 1 cellularia, hyalina, disticha, 9—12/2—2,5. Paraphyses lanceolatae, ascos longe supe-

rantes, hyalinae, basi c. 5 mikr. crassae. Jod coerulescit apicem ascorum.

Ad calamos sicclos nardi strictae in alpibus editioribus Tyrolensibus juxta glaciem aeternam.

Trichopeziza caduea Rehm nov. spec.

(? syn. *Lachnum acutipilum* Karsten myc. fenn. I. p. 173). —

Perithecia plerumque sparsa, stipitata, turbinata, albido-flavescens, sicca plerumque collapsa et clausa; humida rigida, stipite brevi, crasso, disco dilatato concavo, flavidoscello, pilosohirta, 0,5 mm. diam.; pilis longis, acutis, vix scabris, simplicibus, hyalinis, c. 3—4 mikr. crassis obsessa. Asci clavati, 8 spori, 50—60/6—8. Sporidia fusideo-elliptica, recta vel subcurvata, interdum una apice obtusa; 1 cellularia, saepe 2 nucleolis praedita, hyalina, disticha, 10—15/2—2,5. Paraphyses lanceolatae, ascis superantes, basi 4 mikr. crassae. Jod coerulescit apicem ascorum.

Ad calamos sicclos nardi strictae in alpibus editioribus Tyrolensibus juxta glaciem aeternam.

Microppeziza Iridis Rehm. nov. spec.

Perithecia sicca oblonga vel rotundata, plus minusve hemispharice contracta, humida explanata vel concava, sessilia, gregaria, subfuscata, margine viridi-flavo cincta, disco fuscidulo, parenchymatice fusce contexta, c. 0,2 mm. diam. Asci clavati, apice incrassati, 4—8 spori, 50/9. Sporidia elliptico-elongata, haud acuminata, recta, 1 cellularia, nucleis magnis 1—4 praedita, hyalina, disticha, 18—21/4. Paraphyses filiformes, hyalinae, superne sensim —3,5 mikr. incrassatae. Jod coerulescit apicem ascorum.

Ad folia et caules putridas Iridis spuriae prope Tököl (Hungaria) leg. Lojka.

Pezizella Aconiti Rehm nov. spec.

Perithecia gregaria, sessilia, orbicularia, primitus, subglobosa, urceolata, dein plus minusve expansa, sicca albidorosea, extus scabra, disco roseo, humida dilatata plana, margine crasso, albido, denticulato cincta, roseo-cinerea, tenerrime, subhyaline, prosenchyomatice contexta, c. 3—5 mm. diam. (humida). Asci clavati, apice incrassati, 8 spori, 45—50/7. Sporidia subelliptica, obtusa, 1 cellularia 2—plerumque 4 nucleis praedita, recta vel subcurvata, hyalina, disticha, 12—14/—3. Paraphyses filiformes. Jod coerulescit apicem ascorum.

Ad caules putridas aconiti Napelli in alpe Dzurowa prope Teplicska (Liptau). Hungaria. leg. Lojka.

Valsa (Circinnata) macrostoma Rehm nov. spec.

Stromata ut in *V. ambiens* (Pers.) elliptica, — 3 mm. longa, 1 — 1 $\frac{1}{2}$ mm. lata, peridermio transversim fisso perspicua. Ostiola in superficie disci lutescentis vel punctiformia, non emersa, atra, vel discum subglobose superantia, plus minusve circinantia; perithecia in singulo stromate, subtus nigrolimitato, intus corticis materie immutata, usque 20, globosa, mutua pressione angulata. Asci 8 spori, clavati, sessiles, — 50/7 — 8. Sporidia elliptica, vix curvata, obtusa, 1 cellularia, hyalina, 6 — 8/3. Paraphyses filiformes. Jod —.

Ad ramos sicclos Pruni spinosae in Franconia bavarica.

Thyridium Betulae Nke. in herb. meo sec. explr. orig.

Sporen elliptisch, zuerst hyalin und 2—4zellig, später zweihälftig, die eine Hälfte etwas breiter und länger, mauerförmig vielzellig, braun, — 30/11; 8 meist 1reihig in keuligen, dickwandigen Schläuchen, 150/18. Aestige Paraphysen. Jod bläut schwach die braunen Sporen.

Lophiostoma (Lophiotrema) glaciale Rehm nov. spec. (sub L. Sedi Fuckel).

Perithecia c. 0,5 mm. diam., primitus gregarie sub epidermide denigrata nidulantia, dein superficialia, dimidiata, semiglobosa, in papillam pectinatam, angustam, elongatam protracta, atra, denique foveolam albescentem rotundam relinquentia. Asci clavato-pedicellati, apice incrassati, — 120/10, 8 spori. Sporidia elongato-fusiformia, utraque apice appendice hyalina, setiformi, 5—6 mikr. lg. praedita, bilocularia, quadrinucleata, medio constricta, hyalina, disticha, — 24/5. Paraphyses filiformes Jod —.

Ad caules Aconiti Napelli putridas in alpe Dzurowa (Liptau) Hungariae. leg. Lojka. (proxima L. affine Speg. cfr. Saccardo f. it. del. 610).

Melanomma rhododendri Rehm nov. spec. 1872.

syn. *Cucurbitaria* — Niessl Beiträge p. 50 t. IV f. 32. sec. Saccardo. — cfr. Michelia III 345, Grevillea VIII p. 108 (*Psilosphaeria* — Cooke). —

Perithecia c. 0,5 diam., globosoconica, apice poro pertusa, integra, nigra, sub cortice nidulantia et singulatim vel 2—6 conglobata peridermidem perforantia laciniisque ejus cincta, sessilia. Asci cylindracei, apice incrassati, 8 spori, — 103/8. Sporidia oblongo-elliptica, 4 cellularia, ad septa subconstricta, nucleis parvulis praedita, recta, fuscidula, plerumque monosticha, — 18/6. Paraphyses ramosac. Jod —.

Ad ramulos sicclos rhodod. ferrug. in alpibus editioribus Tyrolensisibus.

Ophiobolus compressus Rehm nov. spec. sub
Rhaphidophora.

Perithecia dimidiata, nigra, hemisphärico-conica, primitus sub epidermide nidulantia, dein sessilia, seriatim gregaria, c. 0,5 mm. diam.; minutissime papillata poroque vix perspicuo instructa, sicca utrimque compressa. Ascii cylindraceo-clavati, 8 spori, 110/15. Sporidia filiformia, parallela, subacuta, medio subconstricta, 8—16 cellularia, parviguttulata, flavescentia, 90/4. Paraphyses ramosae. Jod —.

Ad ramulos sicclos artemisiae camp. in insula Csepel Danubii hungarici. leg. Lojka.

Ophiobolus Echii Rehm nov. spec. sub Rhaphidophora.

Perithecia gregaria, sub epidermide denigrata sessilia, globosa, atra, c. 0,5 diam., ostiolo rostrato, obtuse conico, elongato, emerso, crasso instructa. Ascii cylindraceo-clavati, apice incrassati, 160/8. Sporidia 8, filiformia, parallela, obtusa, subcurvata, 18—20 cellularia, cellulis omnibus magni-nucleatis, fuscidula, 90—120/4. Paraphyses filiformes, c. 2 mikr. crassae. Jod —.

Ad basim caulinum putrescentium Echii vulg. in Franconia bavarica.

Leptorrhaphis acerina Rehm nov. spec.

Perithecia punctiformia, in cortice suberosa vel subimmersa vel sessilia, globoso-conica, poro haud perspicuo, gregaria, integra, atra. Ascii elliptico-clavati, apice incrassati, subcurvati, 50/8, 8 spori. Sporidia elongato-elliptica, fere filiformia, recta vel plus minusve curvata, apice acutata 1—2 nucleata, Jodo addito perspicue 2 cellularia, hyalina, disticha, 15—24/2. Paraphyses hyalinae, filiformes, articulatae (?), c. 2 mikr. crassae. Jod —.

Ad corticem suberosam ramorum vivorum aceris camp. in sylva Franconiae bav.

Dasyphypha leucostoma Rehm nov. spec.

Perithecia gregaria, sessilia, globosa, urceolata, extus fusco-brunnea vel fusco-nigra, hirta, ore connivente albo, ex fibris hyalinis constituto, humidato aperto, disco dein conspicuo, concavo, pallido, c. 0,4 mm. diam., prosenchymaticae fusce contexta, pilis longis, fuscidulis, obtusis, subscabris, simplicibus, c. 3 mikr. crassis obsessa. Ascii cylindraceo-clavati, apice incrassati, —90/5, 8 spori. Sporidia oblonga vel subfusiformia, plerumque recta, 1 cellularia, hyalina, disticha, —16/2. Paraphyses filiformes, apice haud clavatae. Jod coeruleescit apicem ascorum.

Ad caules putridas aconiti Napelli circa lacum Zenoga in alpibus edit. transsylvaniae. leg. Lojka.

Trochila petiolicola Rehm (an? = *Fuckel symb.* myc. p. 400. *Nachtrag I* p. 41, fehlt Beschreibung der Schläuche und Sporen).

cfr. *Grevillea IV* p. 119. — syn. ? *P. erumpens* Grev. in Cooke f. brit. I 566.

Perithecia sparsa, per epidermidem erumpentia, dein sessilia, sicca plerumque longitudinaliter compressa, humidata dilatata, rotunda, subplana, extus atra, marginata, disco hyalino, parenchymaticae fuscoviridule contexta, 0,5 mikr. diam. Asci clavati, 8 spori, —45/5; Sporidia disticha, elliptica, 1 cellularia, hyalina, —7/2. Paraphyses plerumque superne dichotomae, clava subrotunda, hyalina, 4—5 mikr. diam. praeditae. Jod coerulescit apicem ascorum.

Ad caules foliorum *Tiliae* putrescentes in sylva prope Lipsiam. Dr. G. Winter.

Mytilinidion lineare Rehm nov. spec.

Perithecia in maculas atras, subrotundas, 1—3 mm. diam., coacervata, minutissima, mytiliformia, atra, carbonacea, sublinearia. Asci cylindrico-clavati, apice incrassati, 8 spori, 60/6. Sporidia elongato-fusoidea, recta vel subcurvata, di-dyma, fuscidula, 12/2,5, disticha. Paraphyses ramosae. Jod —.

Ad frustula lignea pinea in valli Zsereleu infra montem Domuglad prope balnea Herculina in Banatu. leg. Lojka.

Teichospora ampullacea Rehm nov. spec.

Perithecia pyriformiter globosa, in papillam crassam, apice pertusam protracta, nigerrima, glabra, integra, c. 0,1 mm. diam., gregaria in corticis superficie sessilia. Asci clavati, crassi, 4—8 spori, 210/30. Sporidia obtuse-oblonga, primitus 8 cellularia, dein muriformi-polyblastia, fusca, —58/18. Paraphyses ramosae, articulatae. Jod —.

Ad corticem *Aesculi Hippocast.* prope Windsheim Franconiae bav.

Massaria polymorpha Rehm nov. spec.

Perithecia minuta, globosa, c. 0,5 mm. diam., sub epidermide pro parte infuscata in cortice interiore nidulantia eamque pustulatim gregarie elevantia et radiatim findentia, atra, ostiolo minuto pertusa. Asci clavati, apice incrassati, 8 spori, —110/12. Sporidia obtuse-elliptica, medio subconstricta, 2 cellularia, utraque cellula nucleis magnis 2 praedita, circulo gelatinoso lato circumdata, hyalina, —24/5, 1 $\frac{1}{2}$, —2 sticha. Paraphyses ramosae. Jod —.

Ad ramos sicclos Rosarum infra montem Retyezát in alpibus transsylvaniae. leg. Lojka.

Spheconisca humilis Norman in bot. Not. 1876 p. 174. (Sporenmass etwas kleiner angegeben.)

syn. *Capnodium fuliginodes* Rehm nov. spec. 1874.

Thallus longe lateque epidermidem ramorum obducens, griseo-fuscus, tenuissimus, ex hyphis plus minusve ramosis compositus, quarum cellulæ monostiche aggregatae, fuscae, subrotundæ, c. 6 mikr. crassæ. Perithecia globosa, minima, nigrofusca, parenchymatica. Ascii pyriformiter clavati, apice incrassati, 8 spori —48/15. Sporidia obtuse elliptica, recta vel subcurvata, 2—4 cellularia, hyalina vel subfuscidula, biseriata, —14/5. Paraphyses perparcae, ramosae, tenerimae. Jod —.

Ad ramos sicclos pendulos aceris platanoidis. Windsheim (Franconia bavarica).

Helotium glanduliforme Rehm nov. spec. (? *Helotium cyathoideum* v. *multicolor* Karsten myc. fenn. II p. 136.)

Perithecia sparsa, crasse stipitata, stipite fuscidulo, basi subhyalina, turbinata, c. 1—1,5 mm. alta, c. 5—7 mm. diam., sicca margine urceolato-involuta fusca, humidata concavo-urceolata, flavidula, prosenchymatice flavide contexta, glabra, sicca extus subruguloso-striato. Ascii clavati, 8 spori 45/6. Sporidia elliptica, subobtusa, 1 cellularia, recta, hyalina, disticha, 9/2,5. Paraphyses filiformes, superne sensim —3 mikr. crassæ, ascos vix superantes. Jod coerulescit apicem ascorum.

Ad ramulos sicclos ononidis spin. prope Windsheim (Franconia bav.).

Odontotrema diffindens Rehm nov. spec. (sub *Pyrenopeziza*).

Perithecia sparsa, ex foliorum parenchymate late dealbato erumpentia, saepe fibris circumdata, demum sessilia, globosa, integra, seminis papaveris magnitudine, fusconigra, subscabra, primitus apice fere papillata, poro minutissimo pertusa, demum urceolato-umbilicata, ore irregulariter erosio et ruguloso, disco haud conspicuo, c. 0,7 mm. diam., parenchymatice fusce contexta. Ascii cylindraceo-clavati, crassi, apice incrassati, 8 spori, 60/7. Sporidia elliptica vel elongato-ovoidea, obtusa, plerumque recta, 4 cellularia, interdum ad septa subconstricta, hyalina, 1—1½ sticha, —15/5. Paraphyses filiformes, ascos paullulum superantes, hyalinae, apice haud clavatae. Jod coerulescit ascos.

Ad folia emortua Nardi strictae in alpibus edit. Tyrolensisibus.

Pyrenopeziza Molluginis Rehm nov. spec.

syn. *Mollisia Galii veri* Karsten myc. fenn. II p. 203.
Pyrenopeziza Galii Kze. in exs.; non Fuckel symb. myc. p. 295. —

Sporen länglich-keulig, stumpf, gerade oder schwach gebogen, 1zellig, hyalin, mit je 1 kleinen Kern in den

Ecken, — 18/2,5; 6 (8?) 2 reihig in keuligen, oben stumpfen Schläuchen, 42/9; Paraphysen fädig, mit mehr weniger grosser, c. 3 mikr. dicker clava. Jod —.

Tapesia prunicola Fuckel symb. myc. p. 302 (sed „cupulae aterrimae, villo atrofusco“, non quadrat).

Perithecia primitus globosa, dein aperta, patellaria, sessilia, margine albido-vel cinereo-albido cineta, disco explanato cinereo vel cinereo flavescente, orbicularia, parenchymatice fusca, extus versus basim fusca vel fuscocinerea, gregaria, — 1 mm. diam., in byssso plus minusve evoluto sessilia. Hyphae fuscae, simplices, glabrae, c. 5 mikr. crassae. Asci clavati, apice incrassati, 8 spori, 45/6; Sporidia fere cylindracea, 1 cellularia, plerumque utraque apice nucleo praedita, plerumque recta, obtusa, hyalina, biseriata 10—14/—2,5. Paraphyses filiformes, superne subincrassatae. Jod coerulescit apicem ascorum.

Ad ramos putridos alni viridis in alpibus edit. Tyrolensibus.

Micropeziza Punctum Rehm nov. spec. 1875 in litt. ad Thümen.

Perithecia minutissima, primo punctiformia, dein orbiculariter basi late adnata, sessilia, subhemisphärica, concaviuscula, margine elevato, disco humido fuscidulo, sicca atra, parenchymatice, fusce contexta, margine prosenchymatico viridi-fusco, sparsa, c. 0,3 mm. diam. Asci clavati, subcurvati, 8 spori, 55/12. Sporidia oblonga, obtusa, interdum elongato-dacryoidea, recta, rarius subcurvata, hyalina, 2 cellularia, utraque cellula binucleata, disticha — 17/4,5. Paraphyses filiformes, apice subincrassatae et fuscidulae, saepe subincurvatae. Jod —.

Ad folia sicca Nardi strictae in Bohemia. leg. v. Thümen.

Niptera citrinella Rehm nov. spec.

Perithecia gregaria in cortice interiore sessilia et per rimas epidermis fissae protuberantia, patellaformia, primitus orbicularia, dein irregularia et confluentia, plana, margine tenui concolori cineta, flava vel citrinella vel aeruginosa, c. 1 mm. diam., parenchymatice flave contexta. Asci clavati, apice incrassati, 8 spori, 90/9. Sporidia fusoideo-elongata, acutata, plerumque subcurvata, 2 cellularia, hyalina, disticha, 21—24/3. Paraphyses filiformes, haud clavatae, ascos superantes, guttulatae, 3—4 mikr. crassae, hyalinae. Jod coerulescit apicem ascorum.

Ad ramos putridos pendulos Alni viridis in alpibus editioribus Tyrolensibus.

Calloria Primulae Rehm nov. spec.

Perithecia minutissima, punctiformia, sessilia, carneo-rubra, hemiglobosa, orbicularia, sicca concaviuscula, marginata, sparsa in superficie foliorum. Asci clavati, 6—8 spori, —60/18. Sporidia oblongo-elliptica, 1 cellularia, hyalina, disticha, non extra ascos visa —24/5. Paraphyses filiformes, ascos superantes, apice sensim in clavam hyalinam c. 3 mikr. crassam ampliatae, massae gelatinosae immersae. Jod —.

Ad folia emortua primulae glutinosae in alpibus editissimis Tyrolensibus.

Habrostictis aurantiaca Rehm nov. spec.

Perithecia gregaria, per peridermidem fissam irregulariter erumpentia, laciiniisque ejus laxe cincta, primitus sphäroideo-depressa et clausa, dein aperta, irregulariter stellatimque patelliformia, plana, disco viridulo, margine crasso irregulari aurantiaco cincta et denique superficiem epidermidis superantia, —1 mm. diam. Asci clavati, 6—8 spori, —100/15. Sporidia oblonga, obtusa, interdum subcurvata, 1 cellularia, nucleo 1 magno plerumque praedita, hyalina, 1 $\frac{1}{2}$ —2 seriata, —24/9. Paraphyses filiformes, superne dichotome-furcatae et clava flavescenti, 4—5 mikr. crassa, articulata, subglobosa praeditae, itaque epithecium ascos superans formantes. Epithectum flavum. Jod violascit apicem ascorum.

Ad corticem ramorum emortuorum Alni viridis in alpibus editioribus Tyrolensibus.

Crumenula nardincola Rehm nov. spec.

Perithecia sessilia, globosa, dein applanata, concava, primitus integra, dein vertice umbilicato stellatim 3 fide dehiscentia, nigrofusca, disco flavescente, extus rugulosa, ex hyphis fuscidulis c. 3 mikr. crassis, vario modo intertextis composita et similibus hyphis circumdata, sparsa, c. 0,5 mikr. diam. Asci clavati, apice parum incrassati, 50/14. Sporidia 8, disticha, oblonga, interdum subelliptica, obtusa, 4 cellularia, ad septa plus minusve constricta hyalina, —17/4,5. Paraphyses filiformes, tenerae, ascos, superantes. Hypothecium fere hyalinum. Jod —.

Ad apicem foliorum siccorum Nardi strictae in alpibus editissimis Tyrolensibus.

Colpoma juniperinum Rehm nov. spec. 1875 und gleichzeitig unablässig Peck. N. Y. rep. 26.

syn. *Coccomyces juniperi* Karsten myc. fenn. I p. 254.

— cfr. Saccardo in Michelia I p. 59.

Sporen fädig, spitz, gerade, 1? zellig, hyalin, mit einigen Kernen, —50/—2; 8 parallel in keuligen, oben stumpf zugespitzten Schläuchen, 90/9. Paraphysen an der Spitze

korkzieherartig gewunden, fädig, c. 2,5 mikr. dick. Jod bläut vorübergehend die Schlauchspitze.

Peck: ex litt. cl. Ellis dd. 28/I 76:

„Gregarium, oblongo-ellipticum vel subelongatum, primo epidermide tectum, sed, hac tandem irregulariter fissa, discus subfuscus conspicitur. Ascis clavatis, paraphysibus gracilibus et apice involutis; sporidiis filiformibus.“

Hypoxylon (Epixylon) diathrauston Rehm nov. spec.

Perithecia carbonacea, fragilia, in corticis superficie sessilia, solitaria vel plerumque in plagas irregulares, usque ad 1 cm. longas lataisque conglobata, itaque vario modo angulata, globosa, apice in papillam conicam, obtusam protracta, atrocinerea, nitentia, c. 1 mm. diam. Ascii cylindracci, apice valde incrassati, —200/12, 8 spori. Sporidia oblongo-elliptica, 1 cellularia, nucleo centrali magno instructa, circulo mucoso angusto circumdata, 1 sticha, —20/10. Paraphyses tenerae, articulatae, c. 6 mikr. crassae. Jod coerulescit apicem ascorum.

Ad ramos emortuos pini Mughi et pumilionis in alpe Kühtai Tyrolensi.

Valsa (Leucostoma) diatrype (Fr.) Nke. pyren. I p. 226. var *Hippophaës* Rehm.

Perithecia in stromate singulo 2—4, spermogonio centrali deficiente, ostiola in disco minutissima, albida, vix perspicua. Ascii elliptici, apice incrassati, haud stipitati, —50/9; Sporidia 8, 2 sticha, obtusa, cylindrica, plerumque subcurvata, 1 cellularia, hyalina, —15/3. Paraphyses articulatae. Jod —.

Ad ramulos emortuos Hippophaës rhamn. in valle prope Oenipontem Tyroliae.

Valsa (Monosticha) oxystoma Rehm nov. spec.

Stromata e basi elliptica conica, compressa, c. 1,5 mm. longa, 1 mm. lat., in cortice interiore immutata nidulantia, nigrescentia, per rimas peridermii transversas erumpentia. Perithecia in singulo stromate 8—12, globosa, dense stipata, monosticha, in collum longum attenuata. Ostiola elongata, tenerima, in stromatis superficie nigra monostiche erumpentia et plus minusve exstantia. Ascii clavati, sessiles, 8 spori —45/8; Sporidia cylindrica, obtusa subcurvata, 1 cellularia, hyalina, 9/2. Paraphyses filiformes, —6 mikr. crassae.

Ad ramulos emortuos alni viridis in alpibus Tyrolensis. — non = *Sphäria oxystoma* Pers. in Moug. et Nestl. st. vog. 767, quae = *Valsa Abietis* Fr. vel *Valsa Kunzei* sec. Michelia VI p. 51.

(Schluss folgt.)

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