

aureas efficientia, tenuissima, sphaeroidea, arescendo collapsa, cupuliformia, poro pertuso nucleumque roseoalbum protrudentia, diam. circiter 50 mmm. Asci cylindranei, basin versus leviter attenuati, longit. circiter 30 mmm 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.

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## 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! —

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\*) 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, subpatellaeformia, disco livido-fusco, 5—7 mm. diam. Asci clavati, 8 spori, — 120/6. Sporidia obtuse-oblonga vel ovata, glabra, 1 cellularia, hyalina, 8—9/4—4, 5, monosticha in superiore asci 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, distincte marginata, sicca subcorrugata, extus fusca, scabra, disco flavido vel viridi, parenchymatice, fusce contexta, margine pseudoprosenchymatica, 0,5—2 mm. diam. Asci 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 siccos rhodod. ferrug. in alpibus editis Tyrolensibus.

*Dasyscypha 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

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\*) 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 perithecii breves, scabri, simplices, flaviduli, obtusi, septati, —3,5 mikr. diam. Asci 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 siccos rhodod. ferrug. inprimis in albis editis Tyrolensibus.

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

Differt a f. normali: sporis ellipticis, haud acuminatis, 1 cellularibus, hyalinis 6—7,25, distichis in ascis clavatis 40—45/6, 8 sporis. Paraphyses lanceolatae, apice acuminatae et ascos superantes, — 4 mikr. crassae. Pili perithecii filiformes, obtusi, scabri, fuscii, — 6 mikr. crassi. Jod coerulescit apicem ascorum. Perithecium prosenchymaticum.

Ad ramulos putridos inprimis rhodod. ferrug. in albis editis Tyrolensibus.

*Dasyscypha fusc sanguinea* 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. hierher.

*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. Asci 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, fuscicululae; —2 mm. crassae. Jod. —.

Ad ramos siccos pini cembrae et pumilionis in albis 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.

*Dasyscypha 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  
margine subfimbriata et rugosa, dein explanata, disciformia,  
haud distincte marginata, margine albedo-fimbriata, humida  
flavida, expansa, prosenchymatice flavidule contexta, —1 mm.  
diam. Asci 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. Asci clavati, apice incrassati, 50—70/9—12.  
Sporidia obtuse-oblonga, 1—2 cellularia, hyalina, —12/—5;  
4 (rarissime 8) transverse 1½ 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. Asci 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 siccos *rhodod. ferrug.* in alpibus elatioribus  
Tyrolensibus.

*Stictis foveolaris* Rehm nov. sp. 1872.

Perithecia in ligni decorticati supremo strato immersa lignique superficiem flavescens vel dealbans, gregaria, plerumque seriata, urceolata, pallida vel rubescens, orbicularia vel ellipsoidea, ligni annulo cincta, c. 0,3–5 mm. diam. Asci clavati, 36/6, 8 spori. Sporidia disticha, oblonga, obtusa, interdum subcurvata, hyalina, 1 cellularia 6–8½–2,5. Paraphyses hyalinae, filiformes apice clavula rotunda, c. 3 mikr. crassa praeditae. Hypothecium hyalinum. Jodii ope hymenium dilute coerulescit, mox rubescit.

Ad ramulos querneos siccos decorticatos in sylvis Franconiae mediae.

*Sphärella araneosa* Rehm nov. spec.

cfr. Arnold Flora 1874, Fragm. 16, t. II f. 22, 23; z. bot. Vhdlgen. 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 fusce-contexta, globosa. Asci 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 —.

*Amphisphäria pinicola* Rehm nov. spec. 1872.

syn. *Didymosphäria alpina* Haszl. in Kozlem. 1873. p. 49.

Perithecia sparsa, erumpentia, dein in cortice sessilia, semiglobosa, breviter papillata poroque pertusa, dimidiata, atra c. 0,5 mm. diam. Asci 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 siccos pini pumilionis et Mugi in alpe editioribus Tyrolensibus.

*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 zueihig 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 parenchymatice, contexta, sicca irregulariter rugulosa, plicata, fusco-nigra, c. 0,3 mm. diam. Calamis, quos incolit, ut videtur reliquiis vel initiis peritheciolorum 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 siccos nardi strictae in alpibus editioribus Tyrolensibus juxta glaciem aeternam.

*Dasyscypha 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 siccos 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, subelausa, 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 siccos nardi strictae in alpibus editioribus Tyrolensibus juxta glaciem aeternam.

*Dasyscypha 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 siccos nardi strictae in alpibus editioribus Tyrolensibus juxta glaciem aeternam.

*Trichopeziza caduca* Rehm nov. spec.

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

*Perithecia* plerumque sparsa, stipitata, turbinata, albido-flavescentia, sicca plerumque collapsa et clausa; humida rigida, stipite brevi, crasso, disco dilatato concavo, flavido-rosello, 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 fusoido-elliptica, recta vel subcurvata, interdum una apice obtusa; 1 cellularia, saepe 2 nucleolis praedita, hyalina, disticha, 10—15/2—2,5. Paraphyses lanceolatae, ascos superantes, basi 4 mikr. crassae. Jod coerulescit apicem ascorum.

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

*Micropeziza Iridis* Rehm. nov. spec.

*Perithecia* sicca oblonga vel rotundata, plus minusve hemisphaerice contracta, humida explanata vel concava, sessilia, gregaria, subfusca, 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 albidosea, extus scabra, disco roseo, humida dilatata plana, margine crasso, albido, denticulato cincta, roseo-cinerea, tenerrime, subhyaline, prosenchymatice 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 Teplická (Liptau). Hungaria. leg. Lojka.

*Valsa* (*Circinnata*) *macrostoma* Rehm nov. spec.

Stromata ut in *V. ambiens* (Pers.) elliptica, — 3 mm. longa, 1—1½ 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 siccos *Pruni spinosae* in Franconia bavarica.

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

Sporen elliptisch, zuerst hyalin und 2—4zellig, später zweihäftig, 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 cylindranei, apice incrassati, 8 spori, —103/8. Sporidia oblongo-elliptica, 4 cellularia, ad septa subconstricta, nucleis parvulis praedita, recta, fuscidula, plerumque monosticha, —18/6. Paraphyses ramosae. Jod —.

Ad ramulos siccos rhodod. ferrug. in alpibus editoribus Tyrolensibus.



*Ophiobolus compressus* Rehm nov. spec. sub *Rhaphidophora*.

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

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

*Ophiobolus Echii* Rehm nov. spec. sub *Rhaphidophora*.

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

Ad basim caulium putrescentium Echii vulg. in Franconia bavarica.

*Leptorrhaphis acerina* Rehm nov. spec.

*Perithecium punctiformia*, in cortice suberosa vel subimmersa vel sessilia, globoso-conica, poro haud perspicuo, gregaria, integra, atra. Asci 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.

*Dasyscypha leucostoma* Rehm nov. spec.

*Perithecium 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., prosenchymatice fusce contexta, pilis longis, fuscidulis, obtusis, subscabris, simplicibus, c. 3 mikr. crassis obsessa. Asci 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 coerulescit apicem ascorum.

Ad caules putridas aconiti Napelli circa lacum Zenoga in alpinis edit. transsylvanicis. 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, parenchymatice 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, didyma, 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, 1½—2 sticha. Paraphyses ramosae. Jod —.

Ad ramos siccos Rosarum infra montem Retyezát in alpibus transsylvanicis. 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 cellulae monostiche aggregatae, fuscae, subrotundae, c. 6 mikr. crassae. Perithecia globosa, minima, nigrofusca, parenchymatica. Asci 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 siccos pendulos aceris platanoidis. Windsheim (Franconia bavarica).

Helotium glanduliforme Rehm nov. spec. (? Helotium cyathoides 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-involuto fusca, humidata concavo-urceolata, flavidula, prosenchymatice flavide contexta, glabra, sicca extus subruguloso-striato. Asci clavati, 8 spori 45/6. Sporidia elliptica, subobtusa, 1 cellularia, recta, hyalina, disticha, 9/2,5. Paraphyses filiformes, superne sensim —3 mikr. crassae, ascos vix superantes. Jod coerulescit apicem ascorum.

Ad ramulos siccos 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 eroso et ruguloso, disco haud conspicuo, c. 0,7 mm. diam., parenchymatice fusce contexta. Asci 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. Tyrolensibus.

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?) 2reihig 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 cincta, disco explanato cinereo vel cinereo flavescente, orbicularia, parenchymatice fusca, extus versus basim fusca vel fuscocinerea, gregaria, —1 mm. diam., in bysso 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, subhemisphaerica, 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, patellaeformia, primitus orbicularia, dein irregularia et confluentia, plana, margine tenui concolori cincta, flava vel citrinella vel aeruginosa, c. 1 mm. diam., parenchymatice flave contexta. Asci clavati, apice incrassati, 8 spori, 90/9. Sporidia fusoido-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 albis editissimis Tyrolensibus.

*Habrostictis aurantiaca* Rehm nov. spec.

*Perithecia* gregaria, per peridermidem fissam irregulariter erumpentia, laciniisque 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. Epithecium flavum. Jod violascit apicem ascorum.

Ad corticem ramorum emortuorum Alni viridis in albis editioribus Tyrolensibus.

*Crumenula nardinicola* Rehm nov. spec.

*Perithecia* sessilia, globosa, dein applanata, concava, primitus integra, dein vertice umbilicato stellatim 3 fide dehiscencia, nigrofusca, disco flavescente, extus rugulosa, ex hyphis fusciculis 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. Epithecium fere hyalinum. Jod —.

Ad apicem foliorum siccorum Nardi strictae in albis editissimis Tyrolensibus.

*Colpoma juniperinum* Rehm nov. spec. 1875 und gleichzeitig unabhängig 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.“

Hypoxyton (Epixylon) diathrauston Rehm nov. spec.

Perithecia carbonacea, fragilia, in corticis superficie sessilia, solitaria vel plerumque in plagas irregulares, usque ad 1 cm. longas latasque 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 coerulecit apicem ascorum.

Ad ramos emortuos pini Mughii 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, tenerrima, in stromatis superficie nigra monostiche erumpentia et plus minusve exstantia. Ascii clavati, sessiles, 8 spori —45/8; Sporidia cylindrica, obtusa subcurvata, 1 cellularia, hyalina, 92. Paraphyses filiformes, —6 mikr. crassae.

Ad ramulos emortuos alni viridis in alpibus Tyrolensibus. — 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.)