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**Inhalt:** Rehm, Beiträge zur Ascomyceten-Flora der deutschen Alpen und Voralpen. — Repertorium: Wittrock et Nordstedt, *Algae aquae dulcis exsicc.* Fasc. 9 et 10. — Ellis, *North American Fungi Cent.* VIII. IX. — Voss, *Materialien zur Pilzkunde Krains.* III. — Eingegangene neue Literatur.

## Beiträge zur Ascomyceten-Flora der deutschen Alpen und Voralpen.

Nach genauester Vergleichung der mir zugänglichen Litteratur und Exsiccata bin ich veranlasst, die folgenden Arten als bisher unbeschriebene zu veröffentlichen. Sie entstammen sämmtlich entweder den Tyroler Hochalpen oder den Bayrischen Alpen und Voralpen und sind zumeist von mir selbst, ferner von den Herren Dr. Arnold und Britzelmayr, denen ich besten Dank für die Mittheilung ausspreche, gesammelt. Leider ist das Material bei keiner dieser Arten zur Vertheilung in meinen Ascomyceten ausreichend gewesen.

Aus der Beschreibung wird hervorgehen, wie sehr eine fortgesetzte Untersuchung der Alpenkette zu verschiedenen Jahreszeiten und in den verschiedensten Höhenlagen und Expositionen noch noth thut; denn es sind dort gewiss fernerhin reiche, wissenschaftliche Schätze zu heben und, wie bereits bei den Flechten geschehen, zugleich für die Pflanzengeographie werthvolle Anhaltspuncte zu gewinnen.

Regensburg, Mai 1882.

Dr. Rehm.

1. *Humaria glacialis* Rehm nov. spec.

*Perithecia* subsessilia, sicca urceolata, complicata, extus rugulosa, rubrofusca vel fusco-albida, humectata dilatata, concava, margine tenui spurio cincta, disco fuscorubro, parenchymatice fusce contexta, glabra, c. 2 mm diam., gregaria. Asci cylindracei, tenuissimi, 8 spori, — 100/9. Sporida obtuse-elliptica, glabra, nucleo 1 magno centrali instructa, hyalina, — 10/6, monosticha. Paraphyses ascos superantes, filiformes, in clavam fusciculam, articulatam, subcurvatam, interdum dichotomam, — 3,5 mikr. crassam sensim abeuntes. Jod flavescit, decolorat clavam paraphysum.

Ad putrescentes calathos *Cirsii spinosissimi* juxta  
glaciem aeternam. Taschach-Gletscher in valle Piz alpium  
Tyrolensium. c. 6200' alt. Dr. Rehm.

2. *Pustularia violaceo-nigra* Rehm nov. spec.

*Perithecia* fere sessilia, primitus patellaria, demum irre-  
gulariter explanata et corrugata, margine spurio subfusco,  
crasso, demum dilacerato, extus et disco ipso violaceo-nigra,  
gregaria, —2mm diam. Asci clavati, cylindraceuti, 8 spori,  
15 mikr. lati. Sporidia obtuse-elliptica, 1 vel plerumque  
2 nucleis magnis instructa, hyalina, glabra, monosticha,  
—24/12. Paraphyses filiformes, 4 mikr. crassae, in clavam  
pyriformem, septatam, 6—8 mikr. crassam abeuntes. Jodii  
ope asci intense coeruleescent.

Ad lignum putridum prope Partenkirchen alpium Ba-  
variae. Dr. Arnold.

3. *Helotium callorioides* Rehm nov. spec.

*Perithecia* gregaria, sessilia, patellaria, vix stipitata,  
plana, aurantiaco-lutea, sicca concavula, humectata ad mar-  
ginem pallidiora, plana vel convexula, prosenchymatice  
flavide contexta, c. 0,8—1 mm diam. Asci clavati, apice  
incrassati, 8 spori, 60/7. Sporidia obtuse fusiformia, recta,  
hyalina, 1 cellularia, disticha, 12/—3. Paraphyses filiformes,  
apice hamatae, haud clavatae. Jod —.

Ad caules putridas *Aconiti varieg.* prope glaciem aeter-  
nam. Kartel-Gletscher in valle Moos alpium Tyrolensium,  
c. 2000' alt. Britzelmayr.

4. *Helotium carnosulum* Rehm nov. spec.

*Perithecia* gregaria, sessilia, primitus subglobosa, mox  
explanata, sicca vario modo complicata et urceolata, carnos-  
vitellina, extus pallidiora, albo-scabra, humida dilatata,  
plana, c. 1 mm diam., hyaline, prosenchymatice contexta.  
Asci clavati, apice incrassati, 8 spori, 90/9. Sporidia ob-  
longa, obtusa, hyalina, 1 —, demum distincte 2 cellularia,  
recta, disticha, —12/5. Paraphyses filiformes, singulae sub-  
dichotomae, apice in clavam irregularem, hyalinam, c. 3 mikr.  
crassam exeuntes. Jod —.

Ad caules putridas *Aconiti Napelli* et *Cirsii spinosiss.*  
prope glaciem aeternam. Alpeiner-Gletscher in valle Stubai,  
c. 7000' alt. et Taschach-Gletscher in valle Piz c. 6200' alt.  
in alpiis Tyrolensibus. Dr. Rehm.

5. *Helotium fuscatum* Rehm nov. spec.

*Perithecia* sparsa vel gregaria, crasse stipitata, c. 1 mm  
alt., primitus globosa, dein turbinata, demum cyathiformia,  
extus flavide puberula, margine subinvoluta, striatulo,  
humida explanata, urceolata; disco rubrofusco, c. 1—2 mm  
diam.; parenchymatice fuscidule contexta, fibris marginalibus

brevibus, obtusis, subscabris, flavidulis, distantibus, c. 3 mikr. crassis. Asci clavati, 8 spori, —50/5. Sporidia elongata, obtusa, recta, 1 cellularia, hyalina, disticha, 6/—2. Paraphyses hyalinae, filiformes. Jodii ope apex ascorum dilute coerulescit.

Ad caules putridas Aconiti Napelli prope glaciem aeternam. Taschach-Gletscher in valle Piz alpium Tyrolensium, c. 6000' alt. Dr. Rehm.

6. *Helotium hysterioides* Rehm nov. spec.

*Perithecia gregaria*, crasse stipitata, stipite c. 1 mm alt., sicca hysteriformiter elliptica, rima longitudinali labiis crassis marginata marginibusque involutis, fusca vel nigrofusca, disco rubrofusco, humectata subexplanata, lentiformia, 1,5—2 mm diam., prosenchymatice, fuscidule contexta. Asci clavati, subcurvati, 8 spori, 50/—8. Sporidia oblonga, obtusa; recta vel subcurvata, saepe centro 1 nucleata, hyalina, disticha, 15/—4,5. Paraphyses superne sensim incrassatae, filiformes, clava hyalina, c. 3 mikr. crassa. Jod —.

Ad caulem putrescentem Aconiti varieg. prope glaciem aeternam. Kartel-Gletscher in valle Moos alpium Tyrolensium. c. 2000' alt. Britzelmayr.

7. *Helotium stigmaion* Rehm (syn. *Peziza Phlei* Morthier in herb. meo).

*Perithecia gregaria*, in foliis dealbatis sessilia, conico-truncata vel subglobosa, apice deplanata, orbicularia, sicca leviter urceolata, nigrofusca, humida plana, margine tenuissimo cincta, disco ferrugineo-nigro, diam. c. 0,3 mm; prosenchymatice, fusce contexta. Asci clavati, 8 spori, 45/6. Sporidia elongata, obtusa, hyalina, 1 cellularia, 6/2 (haud rite evoluta visa!) Paraphyses filiformes, ascos superantes, haud distincte clavatae, c. —2 mikr. crassae. Jodii ope apex ascorum coerulescit.

Ad folia graminea sicca prope Sölden in valle Oetz alpium Tyrolens., alt. c. 4000'. Dr. Rehm.

8. *Helotium Vaccinii* Rehm nov. spec.

*Perithecia gregaria*, orbicularia, primitus subglobosa, concava, extus fusca, humida disco explanato concaviusculo, unacum cum margine hyalino, c. 1 mm diam., sessilia, hyphis longis, fuscis, septatis, c. 3 mikr. crassis, simplicibus basi circumdata, prosenchymatice contexta. Asci clavati, apice incrassati, 8 spori, 45/—8. Sporidia oblongo-elliptica, recta vel subcurvata, hyalina, 1—2 cellularia, disticha, —14/3. Paraphyses ascos superantes, filiformes, apice sensim 4 mikr. crassae, hyalinae. Jodii ope apex ascorum coerulescit.

Ad ramum siccum Vaccinii uliginosi. Peischlkopf in alpebus Tyrolensibus. c. 1800' alt. Britzelmayr.



9. *Belonidium melanosporum* Rehm nov. spec.

*Perithecia* sparsa, solitaria, interdum bina, breviter crasse stipitata, stipite c. 0,5 mm long. flavescente vel nigricante, urceolato-turbinata, margine albido involuto, nigrofusca, sicca extus striata, juvenilia margine albido involuto, glabra, c. 1 mm alt, 0,5 mm diam., prosenchymatice, flavide contexta. Asci clavati, apice incrassati, 4—8 spori, —105/15. Sporidia oblonga, obtusa, 4 cellularia, primitus hyalina, dein subfusca, mucore gelatinosa lato circumdata, 1—1½ sticha, 20/5. Paraphyses hyalinae, apice sensim in clavam fuscam, 4—5 mikr. crassam abeuntes, filiformes. Jodii ope apex ascorum adulatorum violascit.

Ad culmos erectos, siccos *Luzulae glabratae* juxta glaciem aeternam Taschach-Gletscher in valle Piz alpium Tyrolensium. c. 6500' alt. Dr. Rehm.

10. *Trichopeziza Britzelmayriana* Rehm nov. spec.

*Perithecia* gregaria, sessilia, globosa, primitus subelausa, dein urceolata, extus cervino-fuscidula, disco pallido, demum subdilato —1 mm diam., strigosa, prosenchymatice contexta. Pilis simplicibus, longissimis, septatis, rectis, p. p. spiraliter contortis, obtusis, dilute fuscis, c. 3—5 mikr. crassis. Asci clavati, 8 spori, 90/6. Sporidia cylindrica, obtusa, recta, hyalina, 2 cellularia, disticha, —11/2. Paraphyses ascos superantes, hyalinae, basi c. 5 mikr. diam., apice acutatae. Jodii ope apex ascorum coerulecit.

Ad crates prope ripam fluvii juxta Augustam-Vindelicorum. Britzelmayr.

Es könnte fraglich sein, ob diese Art nicht identisch ist mit *Helotium alboluteum* Karsten myc. fenn. I. p. 160. cfr. Nyl. pez. fenn. p. 30. Aber die Beschreibung der Sporen und Paraphysen stimmt durchaus nicht.

11. *Trichopeziza chlorospleniella* Rehm nov. spec.

*Perithecia* sparsa, sessilia, sphäroidea, dein urceolata, nigrella, extus nigre pilosa, humida urceolato-concava, margine involuto sublaccro, subrugosa, fuscoatra, disco hyalinello, c. 1 mm diam., prosenchymatice fusce contexta, pilis brevibus, septatis, fuscis, obtusis, glabris, sparsis, c. 4 mikr. crassis obsessa, in caule longe lateque aeruginose tincta sessilia. Asci clavati, 8 spori, 36/5. Sporidia elongato-fusiformia, recta, 1 cellularia, hyalina, disticha, —7/2. Paraphyses ascos superantes, lanceolato-acutatae, basi c. 6 mikr. crassae. Jodii ope apex ascorum coerulecit.

Ad caulem putridam *Aconiti varieg.* Kartel-Gletscher in valle Moos alpium Tyrolensium. c. 2000 m alt.

Britzelmayr.

12. *Trichopeziza cyphelioides* Rehm nov. spec.

*Perithecia gregaria*, interdum sparsa, lentiformiter-globosa, breviter stipitata, dein fere sessilia, nigro-purpurea, hirta, parenchymatice fusce contexta, pilis longis, fusco-purpureis, simplicibus, subscabris, obtusis, c. 5 mikr. crassis obsessa, primitus subclausa, humida urceolato-aperta, disco pallido, —1 mm diam. (Color perithecorum in aqua solubilis!) Asci clavati, apice incrassati, 8 spori, 45/6. Sporidia fusiformia, recta vel subcurvata, subobtusa, disticha, 1 cellularia, interdum 2 nucleis instructa, hyalina, —10/2,5. Paraphyses ascos superantes, filiformes, c. 2 mikr. diam. Jodii ope apex ascorum coeruleo.

Ad caules putridas *Aconiti Napelli* juxta glaciem aeternam alpium Tyrolens. Taschach-Gletscher in valle Piz, alt. c. 6200' leg. Dr. Rehm, Kartel-Gletscher in valle Moos. c. 2000' leg. Britzelmayr.

Höchst unwahrscheinlich gehört diese ganz hervorragende Art zu *Helotium elegantulum* Karsten, myc. fenn. I p. 157; sie dürfte auch wegen des parenchymatischen *Perithecium* von *Trichopeziza* zu trennen sein.

13. *Trichopeziza fusco-hyalina* Rehm nov. spec.

*Perithecia gregaria*, sessilia, primitus globoso-urceolata, dein subdilatata, strigosa, fusca, quasi villo subexplanato insidentia, humida explanata orbicularia, concavula, disco et margine hyalino, 1—1½ mm diam., fusce, prosenchymatice contexta, pilis simplicibus, longis, septatis, fuscis, subundulatis, glabris, ca. 4 mikr. crassis obsessa. Asci clavati, apice obtuse-acuminati, 8 spori, 45/8. Sporidia oblonga, obtusa, recta, 1 cellularia, hyalina, disticha, 9/4. Paraphyses filiformes, simplices, c. 4 mikr. crassae, haud clavatae. Jod —.

Ad ramum siccum *Rhodod. ferrug.* Peischlkopf in alpiibus Tyrolensibus c. 1800' alt. Britzelmayr.

14. *Trichopeziza nectrioides* Rehm nov. spec.

*Perithecia sparsa vel gregaria*, sessilia, primitus globosa, dein basi appanata, extus albo-pilosa, sicca clausa, humida urceolata, margine albido, subtilissime fimbriato, primitus clausa, disco hyalino, c. 0,3—5 diam., prosenchymatice, flavidule contexta, pilis creberrimis, simplicibus, acutis, basi septatis ibique —5 mikr. crassis, rectis, glabris, hyalinis obsessa. Asci clavati, 8 spori, 45/—7. Sporidia ovata, hyalina, 1 cellularia, 1—2 sticha, —7/3. Paraphyses filiformes. Jod —.

Ad ramulum siccum *Rhodod. ferrug.* Peischlkopf in alpiibus Tyrolensibus, c. 1800 malt. Britzelmayr.

15. *Trichopeziza subnidulans* Rehm nov. spec.

Perithecia plerumque gregaria, sessilia, primitus globosa, extus flavido-brunnea, strigosa, humida explanata, margine fimbriata, subtus nuda fusca, disco livido-pallido, c. 0,7—8 mikr. diam., orbicularia, parenchymatice contexta, pilis marginalibus mediocribus, —7 mikr. crassis, fuscis, apice subclavata, obtusa, hyalinis, anguste septatis, simplicibus. Asci clavati, 8 spori, 45/5. Sporidia oblongata, obtusa 1 cellularia, hyalina, disticha, —7/1,5. Paraphyses lanceolatae, apice acutatae, basi 5 mikr. crassae. Jodii ope apex ascorum coerulescit.

Ad caules putridas *Adenostylidis* alp. in monte Bauernalpkopf alpium Allgoviae. c. 1500 m alt. Britzelmayr.

Diese Art gehört zur Verwandtschaft von *Trichopeziza nidulus*.

16. *Tapesia cinerella* Rehm nov. spec.

Perithecia plerumque gregaria, primitus subglobosa, sessilia, dein explanata, orbicularia, sicca concaviuscula, diaphano-cinerea vel flavidula, humida dilatata, plana, margine dilutiore, albido, tenui cincta, cinereo-hyalina, 1 mm diam., parenchymatice, basi subflavide contexta, sessilia in bysso ex hyphis longissimis, simplicibus, septatis, fuscis, glabris, 3—5 mikr. crassis composito. Asci clavati, 8 spori, —45/9. Sporidia obtuse elliptica vel oblonga, recta vel subcurvata 1 cellularia, interdum nucleolis 2 praedita, hyalina, disticha, —12/3,5. Paraphyses filiformes, hyalinae, apice sensim —3 mikr. incrassatae. Jodii ope apex ascorum coerulescit.

Ad ramulos putridos *Rhodod. ferrug.* in alpiis Tyrolensibus. Peischl-See in monte Arlberg c. 1800 m alt. leg. Britzelmayr, prope Kühtai (Oetz) c. 6200' lg. Dr. Rehm.

17. *Mollisia fuscidula* Rehm nov. spec.

Perithecia gregaria, minuta, sessilia, c. 0,2 diam., orbicularia, humida marginata, patellaria, sicca corrugata, fusca, disco vix dilutiore, parenchymatice contexta. Asci clavati, apice incrassati, 8 spori 45/8. Sporidia fuscoideo-elliptica, 1 cellularia, recta, hyalina, disticha, 8/2. Paraphyses filiformes, apice subincrassatae et fuscidulae. Jodii ope apex ascorum coerulescit.

Ad paginam infer. foliorum putridorum *Vaccinii uliginosi* prope glaciem aeternam. Taschach-Gletscher in valle Piz alpium Tyrolens., c. 5800' alt. Dr. Rehm.

18. *Mollisia Pumilionis* Rehm nov. spec.

Perithecia gregaria, sessilia, substipitata, sphäroidea, demum concavula, sicca fuscocervina, humida disco fuscidulo, parenchymatice, fusce contexta, c. 0,8 mm diam. Asci clavati,



apice incrassati, 8 spori, 75/9. Sporidia obtuse-elliptica, recta vel subcurvata, 1 cellularia, hyalina, —14/3. Paraphyses filiformes, laxae, apice haud incrassatae, hyalinae. Jodii ope apex ascorum violaceae tingitur. Ad acus pini pumilionis putridos. Haspelmoos prope Augusta Vindelicorum.

Britzelmayr.

19. *Mollisia rubicunda* Rehm nov. spec.

Perithecia sparsa, sessilia, orbicularia, patellariformia, plana, margine spurio, sicco tumidulo cincta, rubicunda, c. 1 mm diam., parenchymatice fuscidule contexta. Asci clavati, 8 spori 60/7. Sporidia obtuse elliptica, 1 cellularia, hyalina, 1—1½ sticha, 8/4, 5. Paraphyses filiformes, ascos superantes, clavula elliptica, fuscidula instructae. Jod —.

Ad conos putridos Pini excelsae in sylva prope Biburg (Augusta-Vindelicorum).

leg. Britzelmayr.

20. *Mollisia Saliceti* Rehm nov. spec.

Perithecia gregaria, in rimis epidermidis cortici interiori fuscatae insidentia, sicca fusca complicata, humida explanata, patellaeformia, concava, demum plana, vix marginata, extus fuscidula, disco cinereo-albido, c. 0,8—1 mm diam. Asci clavati, subcurvati, 8 spori, —50/8. Sporidia obtusa, oblonga, 2 cellularia, recta vel subcurvata, hyalina, disticha, —12/3,5. Paraphyses filiformes, apice sensim —3 mikr. incrassatae, hyalinae. Jod —.

Ad ramum siccum Salicis cujusdam apud glaciem aeternam. Taschach-Gletscher in valle Piz alpium Tyrolens. c. 5800' alt.

Dr. Rehm.

Steht äusserlich der *Mollisia Ligni* sehr nahe.

(Fortsetzung folgt.)

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## Repertorium.

**Wittrock et Nordstedt, Algae aquae dulcis exsiccatae.**

Fasc. 9 et 10. Holmiae 1882.

Die beiden obigen neuen Fascikel dieser äusserst werthvollen, für jeden Algologen unentbehrlichen Sammlung bringen Beiträge aus Schweden (49), Norwegen (17), Spitzbergen (3), Finland (1), Dänemark (4), Deutschland (18), Oesterreich (5), Schweiz (1), Sibirien (2), Ceylon (3), Argentinien (1), Brasilien (15).

Wir geben die Diagnosen der neuen Arten und sonstige interessante Notizen, die von den Herausgebern einzelnen Species beigefügt worden sind.

401. *Oedogonium Cleveanum* Wittr. et Oe. Ahlstrandii Wittr. nov. spec. Oe. monoicum; oogoniis singulis, ellipsoideis, operculo superiore subparvo apertis, rima angusta,

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