Annotated list of taxonomic novelties published in "L. Rabenhorstii Fungi Europaei et Extraeuropaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda" Cent. 27 to 36 issued by G. Winter between 1881 and 1886

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Abstract: Braun, U. & Bensch, K. 2022: Annotated list of taxonomic novelties published in "L. Rabenhorstii Fungi Europaei et Extraeuropaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda" Cent. 27 to 36 issued by G. Winter between 1881 and 1886. Schlechtendalia **39**: 1–53.

New taxa and new combinations published by G. Winter in "L. Rabenhorstii Fungi Europaei et Extraeuropaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum, Editio Nova, Series Secunda" Cent. 27 to 36 in the second half of the 19th century are listed and annotated. References, citations and the synonymy are corrected when necessary. The nomenclature of some taxa, e.g., *Cylindrosporium veratrinum*, is discussed in more detail. The new combination *Auerswaldiella disciformis* is introduced.

Zusammenfassung: Braun, U. & Bensch, K. 2022: Kommentierte Liste taxonomischer Neuheiten publiziert in „L. Rabenhorstii Fungi Europaei et Extraeuropaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda" Cent. 27 bis 36, herausgegeben von G. Winter zwischen 1881 und 1886. Schlechtendalia **39**: 1–53.

Neue Taxa und Kombinationen publiziert von G. Winter in „L. Rabenhorstii Fungi Europaei et Extraeuropaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum, Editio Nova, Series Secunda" Cent. 27 to 36" in der zweiten Hälfte des 19. Jahrhunderts werden aufgelistet und annotiert. Referenzangaben, Zitate und die Synonymie werden korrigiert falls notwendig. Die Nomenklatur einiger Taxa, z.B., *Cylindrosporium veratrinum*, wird detaillierter besprochen. Die neue Kombination *Auerswaldiella disciformis* wird eingeführt.

Key words: Fungi, nomenclature, exsiccata, protologue.

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Introduction

In 1832, Johann F. Klotzsch initiated the exsiccata "Herbarium Vivum Mycologicum" and issued Cent. 1 and 2. Gottlob L. Rabenhorst continued this exsiccata since 1842 and issued Cent. 3 to 20. An index was published by Rabenhorst (1851). Taxonomic novelties published in this exsiccata have been listed and annotated in Braun (2018a). Rabenhorst continued this exsiccata under the name "Klotzschii Herbarium Vivum Mycologicum, Editio Nova" and issued eight centuria between 1855 and 1858 [Series Prima]. Taxonomic novelties published in Editio Nova, Cent. 1–8, are included and annotated in Braun (2018b). Thereafter, Rabenhorst continued his exsiccata with "Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda" and issued Cent. 1–26 between 1859 and 1881. Braun & Bensch (2019) treated taxonomic novelties published in Cent. 1–10 of "Editio Nova, Series Secunda" and Braun & Bensch (2021a) continued this series with taxonomic novelties in Cent. 11–20, followed by Braun & Bensch (2021b), which includes taxonomic noveltied in Cent. 21–26. The present treatment contains taxonomic novelties published by G. Winter in Cent. 27–36 (1881–1886) of this exsiccata [Winter, Fungi Eur. Extraeur. Exs., standard abbreviation, according to http://indexs.botanischestaatssammlung.de/]. Otto Pazschke finished this series with Cent. 37–45, issued between 1890 and 1905. Details to this exsiccata, including data of the publication of the particular centuria and announcements in the journals Botanische Zeitung, Flora and Hedwigia are to be found in Kohlmeyer (1962). According to ICN, Art. 30.8 (Ex. 12), descriptions, new combinations and other taxonomic novelties on labels accompanying distributed specimens (exsiccata) are effectively published, i.e., valid names published on printed labels of distributed exsiccata have to be taken into consideration with regard to priority issues of taxa. However, experiences have shown so far that names published in exsiccata have often been neglected or wrongly cited in nomenclature databases and taxonomic treatments. The particular centuria of "Herbarium Vivum Mycologicum" and "Fungi Europaei Exsiccati" were prepared and, when ready to be distributed, announcements in several botanical journals were published, i.e., descriptions on printed labels in the exsiccata have priority and names (with repeated descriptions) in the journals are later isonyms (Art. 6.3, Note 2) that have to be disregarded. In some cases, particular centuria were

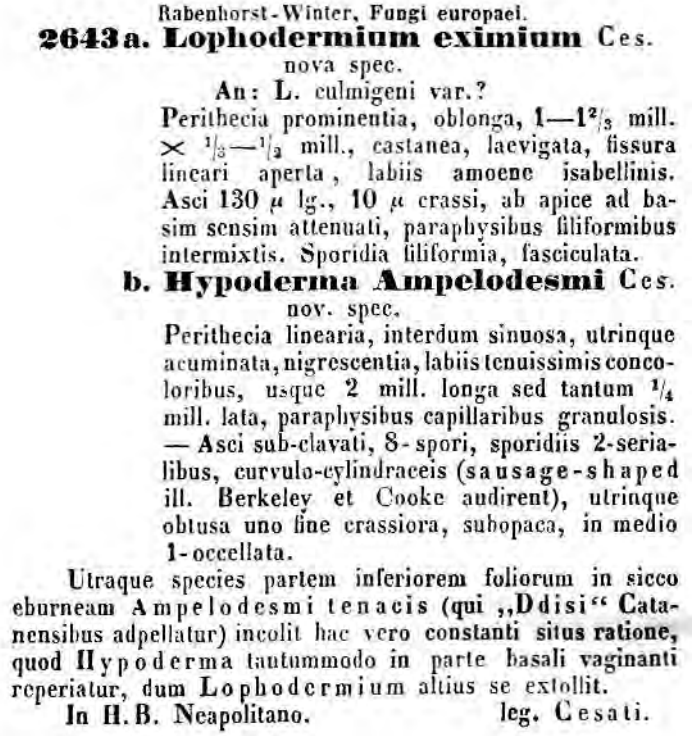
issued even one calendar year earlier [e.g., Fungi Europaei Exsiccati, Cent. 3 in 1860, but announcements in Botanische Zeitung 19 and Flora 44 in 1861, Cent. 24 was published in 1877 and in Hedwigia in 1878, Cent. 27 in 1881 and in Hedwigia in 1882, and Cent. 36 in 1886 and in Hedwigia in 1887]. Numerous names appearing in exsiccata are nomina nuda (without any descriptions or diagnoses) which were validated in later publications by the original author or other authors, either as "ex cases" or as "combinations" under other generic names. In the latter case, the validated names must be attributed to the validating authors alone. The present work was performed in consultation with Index Fungorum and MycoBank, i.e., the results are also meant to be groundwork for these databases.
An almost complete set of "Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda" preserved in HAL was the basis for the present nomenclatural study and reassessment of names. Some types have been re-examined in order to clarify the identity of the taxa concerned. In other cases, currently used and recognized names are cited and highlighted in bold.

Annotated list of taxa

Cent. 27

Lophodermium eximium Ces., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2643 a, 1881 [Hedwigia **21**(1): 7, 1882].
= *Hypoderma eximium* (Ces.) Kuntze, Revis. gen. pl. **3**(3): 487, 1898.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2643 a (fig. 1). This species was described and recognised in Tehon (1935: 48–49).

Hypoderma ampelodesmi Ces., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2643 b, 1881 [Hedwigia **21**(1): 8, 1882].
≡ *Hypodermopsis ampelodesmi* (Ces.) Kuntze, Revis. gen. pl. **3**(3): 487, 1898.
≡ *Locelliderma ampelodesmi* (Ces.) Tehon, Illinois Biol. Monogr. **13**(4): 122, 1935.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2643 b (fig. 1).



Rabenhorst-Winter, Fungi europaei.

2643 a. Lophodermium eximium Ces.
nova spec.
An: L. culmigeni var.?
Perithecia prominentia, oblonga, 1—1²/₃ mill. × ¹/₃—¹/₂ mill., castanea, laevigata, fissura lineari aperta, labiis amoene isabellinis. Asci 130 μ lg., 10 μ crassi, ab apice ad basim sensim attenuati, paraphysibus filiformibus intermixtis. Sporidia filiformia, fasciculata.

b. Hypoderma Ampelodesmi Ces.
nov. spec.
Perithecia linearia, interdum sinuosa, utrinque acuminata, nigrescentia, labiis tenuissimis concoloribus, usque 2 mill. longa sed tantum ¹/₄ mill. lata, paraphysibus capillaribus granulosis. — Asci sub-clavati, 8-spori, sporidiis 2-serialibus, curvulo-cylindraceis (sausage-shaped ill. Berkeley et Cooke audirent), utrinque obtusa uno fine crassiora, subopaca, in medio 1-occellata.

Utraque species partem inferiorem foliorum in sicco eburneam Ampelodesmi tenacis (qui „Ddisi" Catanensibus adpellatur) incolit hac vero constanti situs ratione, quod Hypoderma tantummodo in parte basali vaginanti reperiatur, dum Lophodermium altius se extollit.

In H. B. Neapolitano. leg. Cesati.

Fig. 1

Sphaeria dasylirii Ces., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2655 (1), 1881 [Hedwigia **21**(1): 9, 1882].
≡ *Leptosphaeria dasylirii* (Ces.) Sacc., Syll. fung. **2**: 67, 1883.

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2655 (1) (fig. 2).

Diplodia pellica Ces., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2655 (2), 1881 [Hedwigia **21**(1): 9, 1882].
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2655 (2) (fig. 2).

Phoma dasylirii Ces., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2655 (3), 1881 [Hedwigia **21**(1): 9, 1882].
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2655 (3) (fig. 2).

Sphaeropsis aequivoca Ces. [as "*equivoca*"], in G. Winter, Rabenh. Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2655 (4), 1881 [Hedwigia **21**(1): 9, 1882], nom. illeg. (Art. 53.1), non Desm., 1859.
≡ *Phoma aequivoca* Sacc. [as "(Ces.) Sacc."], Syll. fung. **3**: 159, 1884, nom. illeg. (Art. 53.1), non Ces., 1879.
≡ *Macrophoma aequivoca* Berl. & Voglino [as "(Ces.) Berl. & Voglino"], Atti Soc. Veneto-Trentino Sci. Nat. Padova **10**(1): 194, 1886.
Notes: This is an illegitimate new species name published on the label of Winter, Fungi Eur. Extraeur. Exs. 2655 (4) (fig. 2).

Rabenhorst-Winter, Fungi europaei

2655. Micromycetes foliorum Dasylirii juncei.

Totam seriem offerunt, quam hic ad interim exponere libet, etsi adcuratius singulas formas explorare adhuc in votis sit.

1, 2. **Sphaeria Dasylirii** Nob. subcutanea, in fol. vetustioribus, quorum epidermis senio partim jam consumtam se praebet, — (socia Diplodia pellica Nob., brunnea, ovali, obscure septata, utrinque obtusissima $10 \times 7/500$ mill.) — perithecis globulosis, minutissimis; paraphysibus filiformibus gelatinosis; ascis subclavatis, $22 \times 5/500$ mill., sporidiis 8, biserialibus, fusiformibus, viridulis, 3-septatis, $8 \times 2/500$ mill.

3. **Phoma Dasylirii** Nob.; perithecis hyalinis tenuissimis, lana viridula primitus obductis (?); sporis olivaceis, irregulariter lato-ellipticis, $3\,1/3 \times 3/500$ mill.

4. **Sphaeropsis? equivoca** Nob.: perithecis laxe cellulosis; sporis hyalinis obscurissime? 1-septatis, elongatis, irregulariter linguaeformibus, $12/500$ mill. longis.

5. Blennoria novissima Nob., si eadem sit, ut mihi visum, ac illa in Cycadeis reperta.

6. Ascobolus? — perrare obvius in Sphaeria parasiticus; viridis.

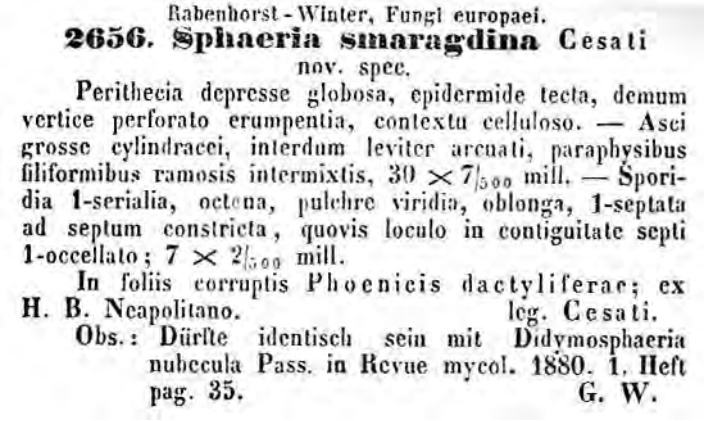
7. Diplodia sp. — Sporae obtusissimae (rotundatae), obscure septatae, brunneae; 10×7.

In H. B. Neapolitano. leg. Cesati.

Fig. 2

Sphaeria smaragdina Ces., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2656, 1881 [Hedwigia **21**(1): 9, 1882].
≡ *Didymosphaeria smaragdina* (Ces.) Sacc., Syll. fung. **1**: 707, 1882.
≡ *Didymosphaerella smaragdina* (Ces.) Cooke, Grevillea **18**(86): 29, 1889.
≡ *Microthelia smaragdina* (Ces.) Kuntze, Revis. gen. pl. **3**(3): 498, 1898.
≡ *Amphisphaeria smaragdina* (Ces.) Schrantz, Bull. Trimestriel Soc. Mycol. Fr. **76**(4): 333, 1961.
= *Sphaeria palmacea* Cooke, Grevillea **7**(41): 12, 1878.
≡ *Anthostomella palmacea* (Cooke) Sacc., Syll. fung. **1**: 291, 1882.
≡ *Didymosphaerella palmacea* (Cooke) Cooke, Grevillea **17**(82): 29, 1889.
≡ *Didymosphaeria palmacea* (Cooke) Ellis & Everh., N. Amer. Pyrenomyc.: 329, 1892.
≡ ***Montagnula palmacea*** (Cooke) Aptroot, Nova Hedwigia **60**(3-4): 341, 1995.
= *Didymosphaeria stowardii* Sacc. [as "*stowardi*"], Ann. Mycol. **13**(2): 138, 1915.

= *Didymosphaeria cocois-capitatae* Caball., Anales Jard. Bot. Madrid **1**: 180, 1941.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2656 (fig. 3). Synonymy and taxonomy, see Apptroot (1995: 341).



Rabenhorst-Winter, Fungi europaei.

2656. Sphaeria smaragdina Cesati nov. spec.

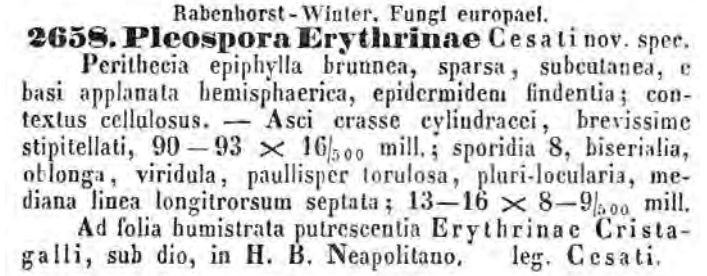
Perithecia depresse globosa, epidermide tecta, demum vertice perforato erumpentia, contextu celluloso. — Asci grosse cylindracei, interdum leviter arcuati, paraphysibus filiformibus ramosis intermixtis, 30 × 7/500 mill. — Sporidia 1-serialia, octona, pulchre viridia, oblonga, 1-septata ad septum constricta, quovis loculo in contiguitate septi 1-occellato; 7 × 2/500 mill.

In foliis corruptis Phoenicis dactyliferae; ex H. B. Neapolitano. leg. Cesati.

Obs.: Dürfte identisch sein mit Didymosphaeria nubecula Pass. in Revue mycol. 1880. 1. Heft pag. 35. G. W.

Fig. 3

Pleospora erythrinae Ces., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2658, 1881 [Hedwigia **21**(1): 9, 1882].
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2658 (fig. 4). According to Müller (1951), this name is a synonym of *Pleospora herbarum*.



Rabenhorst-Winter, Fungi europaei.

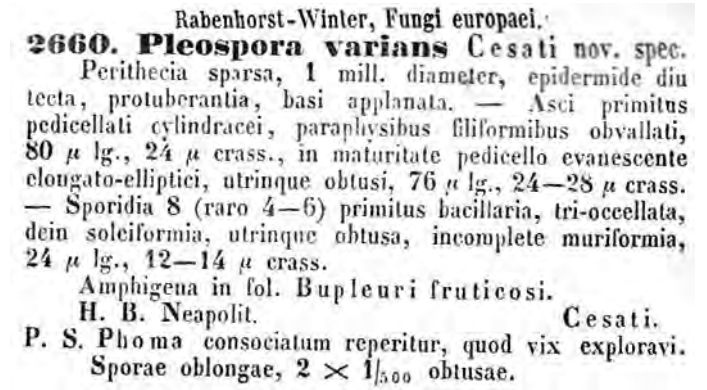
2658. Pleospora Erythrinae Cesati nov. spec.

Perithecia epiphylla brunnea, sparsa, subcutanea, e basi applanata hemisphaerica, epidermidem findentia; contextus cellulosus. — Asci crasse cylindracei, brevissime stipitellati, 90—93 × 16/500 mill.; sporidia 8, biserialia, oblonga, viridula, paullisper torulosa, pluri-locularia, mediana linea longitrorsum septata; 13—16 × 8—9/500 mill.

Ad folia humistrata putrescentia Erythrinae Crista-galli, sub dio, in H. B. Neapolitano. leg. Cesati.

Fig. 4

Pleospora varians Ces., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2660, 1881 [Hedwigia **21**(1): 10, 1882].
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2660 (fig. 5).



Rabenhorst-Winter, Fungi europaei.

2660. Pleospora varians Cesati nov. spec.

Perithecia sparsa, 1 mill. diameter, epidermide diu tecta, protuberantia, basi applanata. — Asci primitus pedicellati cylindracei, paraphysibus filiformibus obvallati, 80 μ lg., 24 μ crass., in maturitate pedicello evanescente elongato-elliptici, utrinque obtusi, 76 μ lg., 24—28 μ crass. — Sporidia 8 (raro 4—6) primitus bacillaria, tri-occellata, dein soleiformia, utrinque obtusa, incomplete muriformia, 24 μ lg., 12—14 μ crass.

Amphigena in fol. Bupleuri fruticosi.

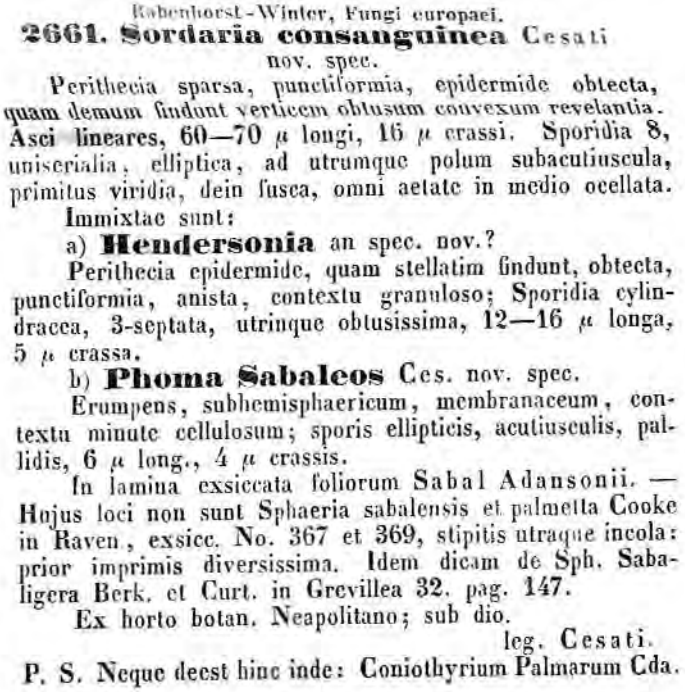
H. B. Neapolit. Cesati.

P. S. Phoma consociatum reperitur, quod vix exploravi. Sporae oblongae, 2 × 1/500 obtusae.

Fig. 5

Sordaria consanguinea Ces., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2661, 1881 [Hedwigia **21**(1): 10, 1882].
≡ ***Anthostomella consanguinea*** (Ces.) Sacc., Syll. fung. **1**: 282, 1882.
≡ *Hypocopra consanguinea* (Ces.) Sacc., Syll. fung. **2**: XI, 1883.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2661 (fig. 6). This species was recognised, described and illustrated by Francis (1975: 62–63, fig. 23).

Phoma sabaleos Ces., in G. Winter, Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2661 b, 1881 [Hedwigia **21**(1): 10, 1882].
≡ *Phomopsis sabaleos* (Ces.) Bond.-Mont., Trudy Bot. Inst. Akad. Nauk SSSR, Ser. 2, **3**: 787, 1936.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2661 b (fig. 6).



Rabenhorst-Winter, Fungi europaei.

2661. Sordaria consanguinea Cesati nov. spec.

Perithecia sparsa, punctiformia, epidermide obtecta, quam demum findunt verticem obtusum convexum revelantia. **Asci lineares, 60—70** μ longi, 16 μ crassi. Sporidia 8, uniserialia, elliptica, ad utrumque polum subacutiuscula, primitus viridia, dein fusca, omni aetate in medio ocellata.

Immixtae sunt:

a) **Hendersonia** an spec. nov.?

Perithecia epidermide, quam stellatim findunt, obtecta, punctiformia, anista, contextu granuloso; Sporidia cylindracea, 3-septata, utrinque obtusissima, 12—16 μ longa, 5 μ crassa.

b) **Phoma Sabaleos** Ces. nov. spec.

Erumpens, subhemisphaericum, membranaceum, contextu minute cellulosum; sporis ellipticis, acutiusculis, pallidis, 6 μ long., 4 μ crassis.

In lamina exsiccata foliorum Sabal Adansonii. — Hujus loci non sunt Sphaeria sabalensis et palmetta Cooke in Raven, exsicc. No. 367 et 369, stipitis utraque incola: prior imprimis diversissima. Idem dicam de Sph. Sabaligera Berk. et Curt. in Grevillea 32. pag. 147.

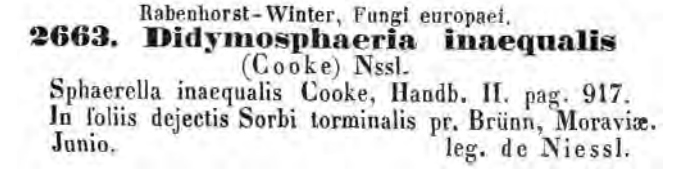
Ex horto botan. Neapolitano; sub dio.

leg. Cesati.

P. S. Neque deest hinc inde: Coniothyrium Palmarum Cda.

Fig. 6

Didymosphaeria inaequalis (Cooke) Niessl, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2663, 1881.
≡ *Sphaerella inaequalis* Cooke, J. Bot., Lond. **4**: 248, 1866, **nom. cons. prop.** (Rossman et al. 2018).
≡ ***Venturia inaequalis*** (Cooke) G. Winter, in Thümen, Mycoth. Univ., Cent. 3: no. 261, 1875.
= *Spilocaea pomi* Fr., Novit. fl. svec. 5(cont.): 79, 1819, nom. sanct. [Fr., Syst. mycol. **3**: 504, 1832].
≡ *Fusicladium pomi* (Fr.) Lind, Danish Fungi: 521, 1913.
[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=164141; https://www.mycobank.org/MB/164141; Schubert et al. 2003: 76–77 (anamorph-typified names)]
Notes: This is a new combination validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2663 (fig. 7). Taxonomic treatment and epitypification, see Shen et al. (2020: 263).



Rabenhorst-Winter, Fungi europaei.

2663. Didymosphaeria inaequalis (Cooke) Nssl.

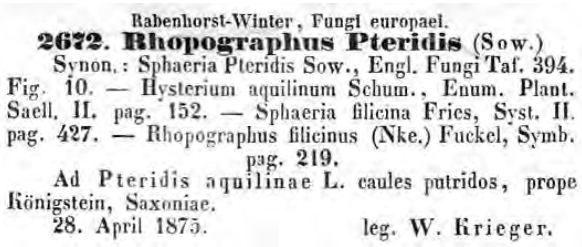
Sphaerella inaequalis Cooke, Handb. II. pag. 917.
In foliis dejectis Sorbi torminalis pr. Brünn, Moraviæ. Junio.

leg. de Niessl.

Fig. 7

Rhopographus pteridis (Sowerby) G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2672, 1881.
≡ *Sphaeria pteridis* Sowerby, Col. fig. Engl. Fung. Mushr. **3**(27): tab. 394, fig. 10, 1803.
= *Sphaeria filicina* Fr., Syst. mycol. **2**(2): 427, 1823, nom. sanct.
≡ *Polystigma filicinum* (Fr.) Link, Handb. Erkr. Gew. **3**: 390, 1833.
≡ *Dothidea filicina* (Fr.) Fr., Summa veg. Scand., Sectio Post.: 386, 1849.
≡ ***Rhopographus filicinus*** (Fr.) Nitschke, in Fuckel, Jahrb. Nassauischen Vereins Naturk. **23-24**: 219, [1869-1870] 1870.
= *Rhopographus filicinus* f. *macrospora* A.L. Sm., Trans. Brit. Mycol. Soc. **3**(2): 115, 1909.

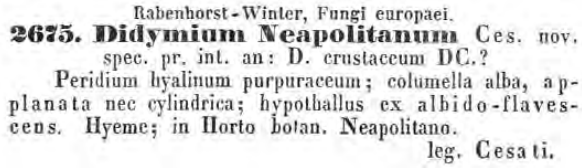
Notes: This is a valid new combination published on the label of Rabenh., Fungi Eur. Extraeur. Exs. 2672 (fig. 8). The combination *Rhopographus filicinus* was made by Nitschke, in Fuckel (see Art. 42.6).



Rabenhorst-Winter, Fungi europaei.
2672. Rhopographus Pteridis (Sow.)
Synon.: Sphaeria Pteridis Sow., Engl. Fungi Taf. 394. Fig. 10. — Hysterium aquilinum Schum., Enum. Plant. Saell. II. pag. 152. — Sphaeria filicina Fries, Syst. II. pag. 427. — Rhopographus filicinus (Nke.) Fuckel, Symb. pag. 219.
Ad Pteridis aquilinae L. caules putridos, prope Königstein, Saxoniae.
28. April 1875. leg. W. Krieger.

Fig. 8

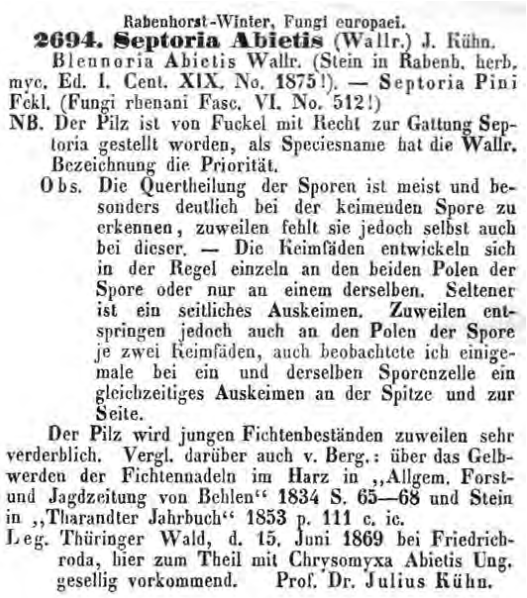
Didymium neapolitanum Ces., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2675, 1881 [Hedwigia **21**(1): 11, 1882]; nom. inval. (Art. 36.1a).
= *Crateriachea mutabilis* Rostaf., Śluzowce monogr.: 126, [1874] 1875.
≡ ***Physarum mutabile*** (Rostaf.) G. Lister, Monogr. Mycetozoa, Edn 2: 53, 1911.
= *Physarum crateriachea* Lister, Guide Brit. Mycetozoa: 20, 1894.
Notes: This name published on the label of Winter, Fungi Eur. Extraeur. Exs. 2675 (fig. 9) is invalid. Synonymy, see Lado (2001: 71).



Rabenhorst-Winter, Fungi europaei.
2675. Didymium Neapolitanum Ces. nov. spec. pr. int. an: D. crustaceum DC.?
Peridium hyalinum purpuraceum; columella alba, applanata nec cylindrica; hypothallus ex albido-flavescens. Hyeme; in Horto botan. Neapolitano.
leg. Cesati.

Fig. 9

Septoria abietis (Wallr.) J.G. Kühn, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2694, 1881 [Hedwigia **21**(1): 12, 1882].
≡ *Blennoria abietis* Wallr., Allg. Forst- Jagd-Zeitung, N.F., **3**: 65, 1834.
Notes: This is a new combination validly published on the label of Winter, Fungi Eur. Exs. 2694 (fig. 10). *Blennoria abietis* Wallr. is usually considered the basionym of *Chrysomyxa abietis* [as "*Chrysomyxa abietis* (Wallr.) Unger, Beitr. vergleich. Pathologie: 24, 1840"]. However, the name *Chrysomyxa abietis* must be ascribed to Unger as new species name. Wallroth's name was not cited at all in Unger (1840), and an indirect reference to Wallroth's name is doubtful. Kühn (l.c.) regarded *Septoria pini* Fuckel (Fungi Rhen. Exs., Fasc. 6: no. 512, 1863) as a synonym of *Blennoria abietis*.



Rabenhorst-Winter, Fungi europaei.
2694. Septoria Abietis (Wallr.) J. Kühn.
Blennoria Abietis Wallr. (Stein in Rabenh. herb. myc. Ed. I. Cent. XIX. No. 1875!). — Septoria Pini Fckl. (Fungi rhenani Fasc. VI. No. 512!)
NB. Der Pilz ist von Fuckel mit Recht zur Gattung Septoria gestellt worden, als Speciesname hat die Wallr. Bezeichnung die Priorität.
Obs. Die Quertheilung der Sporen ist meist und besonders deutlich bei der keimenden Spore zu erkennen, zuweilen fehlt sie jedoch selbst auch bei dieser. — Die Keimfäden entwickeln sich in der Regel einzeln an den beiden Polen der Spore oder nur an einem derselben. Seltener ist ein seitliches Auskeimen. Zuweilen entspringen jedoch auch an den Polen der Spore je zwei Keimfäden, auch beobachtete ich einigemale bei ein und derselben Sporenzelle ein gleichzeitiges Auskeimen an der Spitze und zur Seite.
Der Pilz wird jungen Fichtenbeständen zuweilen sehr verderblich. Vergl. darüber auch v. Berg.: über das Gelbwerden der Fichtennadeln im Harz in „Allgem. Forst- und Jagdzeitung von Behlen" 1834 S. 65—68 und Stein in „Tharandter Jahrbuch" 1853 p. 111 c. ic.
Leg. Thüringer Wald, d. 15. Juni 1869 bei Friedrichroda, hier zum Theil mit Chrysomyxa Abietis Ung. gesellig vorkommend. Prof. Dr. Julius Kühn.

Fig. 10

Blennoria novissima Ces., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 27: no. 2698, 1881 [Hedwigia **21**(1): 12, 1882].
≡ *Trullula novissima* (Ces.) Höhn., Oesterr. Bot. Z. **66**(3/4): 102, 1916.
= *Sirococcus cycadis* Speg. [as "*cicadis*"], Anales Mus. Nac. Buenos Aires, Ser. 3, **13**: 356 [1910] 1911.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2698 (fig. 11). Synonymy, see Höhnel (1916: 102). The status of the genus *Trullula* is still unresolved (see Crous et al. 2020).

Rabenhorst-Winter, Fungi europaei.
2698. Blennoria novissima Cesati nov. spec.
Sporidiorum gleba subcutanea, per epidermidem in tubulum productam (hinc Trullulæ Spartii nostra affinis praesens species), globosa atra; sporidia minutissima, 2 × 1 μ. Immixta est: Dicoccum spec. Sporidia 4 × 2 μ, oblonga, obtusa.
In pinnis foliorum Cycadeos revolutae senio dealbatis. In Hort. botan. Neapolitano. leg. Cesati.

Fig. 11

Cent. 28

Aecidium leucoji Linh., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 28: no. 2718, 1882 [Linh., Fungi hung., no. 48, 1882; Hedwigia **22**(1): 9, 1883].
= ***Puccinia sessilis*** W.G. Schneid., in J. Schröt., Abh. Schles. Ges. Vaterl. Kult., Abth. Naturw. Med. **48**: 19, 1870, s. lat.
[or ***Puccinia schmidtiana*** Dietel, Ber. Naturf. Ges. Leipzig 1895-1896: 195, 1896, in case of a narrower species concept within the *P. sessilis* comlex.]
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2718 (fig. 12). Sydow & Sydow (1904: 784) cited the name *Aecidium leucoji* Bergam. Bals & de Not. (Anzi et al., Erb. Critt. Ital., Ser. 2, no. 99) as synonym, which is, however, a nom. nud., since no description was added on the label. The synonymy of *A. leucoji* depends on the applied taxonomy within the *Puccinia sessilis* complex (see discussion in Klenke & Scholler 2015: 613), which can finally only be clarified by means of comprehensive phylogenetic analyses of the whole *P. sessilis* complex.

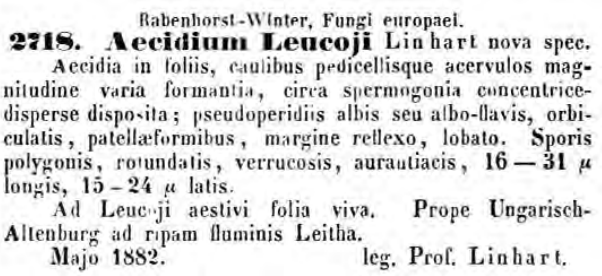

Rabenhorst-Winter, Fungi europaei.
2718. Aecidium Leucoji Linhart nova spec.
Aecidia in foliis, caulibus pedicellisque acervulos magnitudine varia formantia, circa spermogonia concentrice-disperse disposita; pseudoperidiis albis seu albo-flavis, orbiculatis, patellæformibus, margine reflexo, lobato. Sporis polygonis, rotundatis, verrucosis, aurantiacis, 16 — 31 μ longis, 15 – 24 μ latis.
Ad Leucoji aestivi folia viva. Prope Ungarisch-Altenburg ad ripam fluminis Leitha.
Majo 1882. leg. Prof. Linhart.

Fig. 12

Aecidium sii-latifolii "(Fiedler) G. Winter", Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 28: no. 2719, 1882.
≡ *Aecidium falcaricae* var. *sii-latifolii* Fiedler, in Rabenh., Klotzschii Herb. Viv. Mycol., Cent. 12: no. 1176, 1847 [and Bot. Zeitung **6**: 294, 1847; Flora **31**: 508, 1848], nom. nud.
≡ ***Aecidium sii-latifolii*** G. Winter [as "(Fiedler) G. Winter"], in Rabenh., Krypt.-Fl., Zweite Aufl., Band 1, Lief. 4: 228, [1884] 1881.
Notes: The name *Aecidium sii-latifolii* has to be ascribed to Winter (l.c.) who added a description. The corresponding reference is given on the label of Winter, Fungi Eur. Extraeur. Exs. 2719 (fig. 13).

Rabenhorst-Winter, Fungi europaei.
2719. Aecidium Sii latifolii (Fiedler).
cfr. Winter, Die Pilze pag. 265.
Ad Sii latifolii folia viva prope Eisleben, Saxoniæ borussicæ.
Juni, 1882 leg. beat. Kunze.

Fig. 13

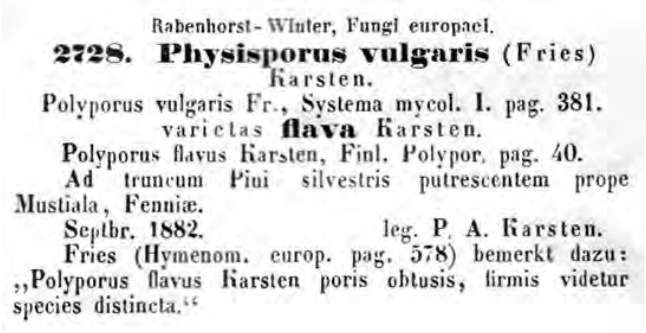
Physisporus vulgaris var. *flavus* P. Karst. [as "*flava*"], in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 28: no. 2728, 1882 [Hedwigia **22**(1): 10, 1883].

≡ *Polyporus flavus* P. Karst., Sydvestra Finlands Polyporeer, Disp. Praes. Akademisk Afhandling: 40, 1859, nom. illeg. (Art. 53.1), non Jungh., 1838.

= ***Antrodia xantha*** (Fr.) Ryvarden, Norweg. J. Bot. **20**(1): 8, 1973).

[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=436505; https://www.mycobank.org/MB/333629.]

Notes: This is a valid new variety name published on the label of Winter, Fungi Eur. Extraeur. Exs. 2728, based on the illegitimate name *Polyporus flavus* P. Karst. (fig. 14).



Rabenhorst-Winter, Fungi europaei.

2728. Physisporus vulgaris (Fries) Karsten.

Polyporus vulgaris Fr., Systema mycol. I. pag. 381.

varietas **flava** Karsten.

Polyporus flavus Karsten, Finl. Polypor. pag. 40.

Ad truncum Pini silvestris putrescentem prope Mustiala, Fenniæ.

Septbr. 1882. leg. P. A. Karsten.

Fries (Hymenom. europ. pag. 578) bemerkt dazu: „Polyporus flavus Karsten poris obtusis, firmis videtur species distincta."

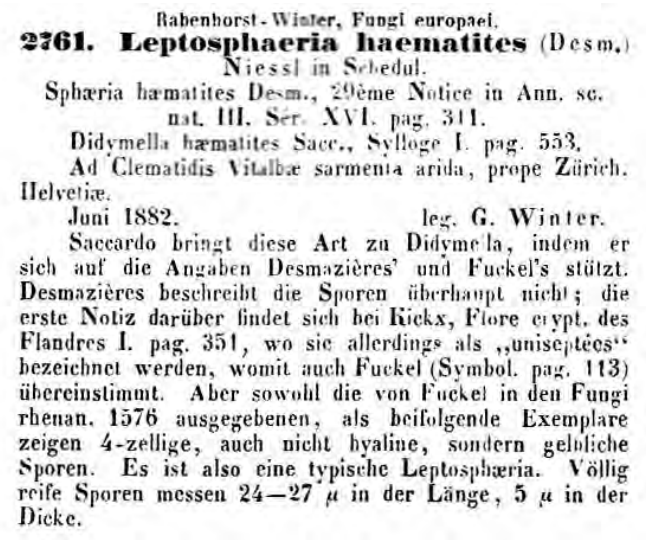
Fig. 14

Leptosphaeria haematites (Roberge ex Desm.) Niessl., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 28: no. 2761, 1882 [Hedwigia **22**(1): 10, 1883].

≡ *Sphaeria haematites* Roberge ex Desm., Ann. Sci. Nat., Bot., Sér. 3, **16**: 311, 1851.

[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=228735; https://www.mycobank.org/MB/228735.]

Notes: This is a valid new combination published on the label of Winter, Fungi Eur. Extraeur. Exs. 2761 (fig. 15).



Rabenhorst-Winter, Fungi europaei.

2761. Leptosphaeria haematites (Desm.) Niessl in Schedul.

Sphæria hæmatites Desm., 29ème Notice in Ann. sc. nat. III. Sér. XVI. pag. 311.

Didymella hæmatites Sacc., Sylloge I. pag. 553.

Ad Clematidis Vitalbæ sarmenta arida, prope Zürich. Helvetiæ.

Juni 1882. leg. G. Winter.

Saccardo bringt diese Art zu Didymella, indem er sich auf die Angaben Desmazières' und Fuckel's stützt. Desmazières beschreibt die Sporen überhaupt nicht; die erste Notiz darüber findet sich bei Kickx, Flore crypt. des Flandres I. pag. 351, wo sie allerdings als „uniseptées" bezeichnet werden, womit auch Fuckel (Symbol. pag. 113) übereinstimmt. Aber sowohl die von Fuckel in den Fungi rhenan. 1576 ausgegebenen, als beifolgende Exemplare zeigen 4-zellige, auch nicht hyaline, sondern gelbliche Sporen. Es ist also eine typische Leptosphæria. Völlig reife Sporen messen 24—27 μ in der Länge, 5 μ in der Dicke.

Fig. 15

Leptosphaeria phyteumatis (Fuckel) Morthier, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 28: no. 2764, 1882 [Hedwigia **22**(1): 10, 1883].

≡ *Pleospora phyteumatis* Fuckel, Fungi Rhen. Exs., Suppl. Fasc. **10**: no. 2439, 1872 [Jahrb. Nassauischen Vereins Naturk. **27-28**: 25 (1873-74) 1874].

≡ *Heptameria phyteumatis* (Fuckel) Cooke, Grevillea **18**(86): 31, 1889.

Notes: This is a new combination validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2764 (fig. 16). Müller (1950) reduced this name to synonymy with *Leptosphaeria modesta* (Desm.) Auersw.

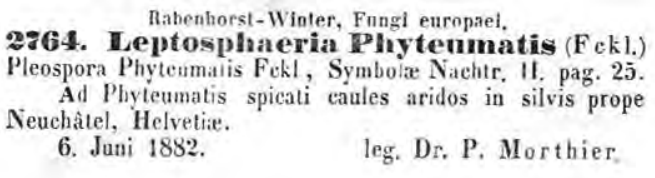

Rabenhorst-Winter, Fungi europaei.
2764. Leptosphaeria Phyteumatis (Fckl.)
Pleospora Phyteumatis Fckl., Symbolæ Nachtr. II. pag. 25.
Ad Phyteumatis spicati caules aridos in silvis prope Neuchâtel, Helvetiæ.
6. Juni 1882. leg. Dr. P. Morthier.

Fig. 16

Clasterosporium amygdalearum (Pass.) Sacc. [as "*Closterosporium*"], in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 28: no. 2777, 1882 [Michelia **2**(8): 557, 1882; Hedwigia **22**(1): 10, 1883].
= *Sporidesmium amygdalearum* Pass., in Thümen, Mycoth. Univ., cent. 5: no. 474, 1876.
≡ *Clasterosporium amygdalearum* (Pass.) Sacc., Michelia **2**(8): 557, 1882, isonym (Art. 6.3, Note 2).
= *Helminthosporium carpophilum* Lév., Ann. Sci. Nat., Bot., Sér. 2, 19: 215, 1843.
≡ *Stigmina carpophila* (Lév.) M.B. Ellis, Mycol. Pap. **72**: 56, 1959.
≡ *Sporocadus carpophilus* (Lév.) Arx, Gen. Fungi Sporul. Cult., Ed. 3: 224, 1981.
≡ ***Wilsonomyces carpophilus*** (Lév.) Adask., J.M. Ogawa & E.E. Butler, Mycotaxon **37**: 283, 1990.
≡ *Thyrostroma carpophilum* (Lév.) B. Sutton, Arnoldia **14**: 34, 1997.
[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=306481; https://www.mycobank.org/MB/127651.]
Notes: This is a new combination validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2777 (fig. 17). Taxonomy and phylogeny, see Marin-Felix et al. (2017: 207). It could not be clarified with certainty if the description in Michelia or in Winter, Fungi Eur. Extraeur. Exs. 2777 is older.

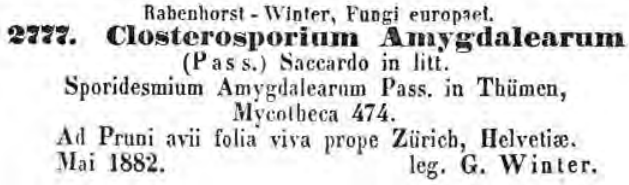

Rabenhorst-Winter, Fungi europaei.
2777. Closterosporium Amygdalearum
(Pass.) Saccardo in litt.
Sporidesmium Amygdalearum Pass. in Thümen, Mycotheca 474.
Ad Pruni avii folia viva prope Zürich, Helvetiæ.
Mai 1882. leg. G. Winter.

Fig. 17

Cercospora dubia (Riess) G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 28: no. 2780, 1882 [Hedwigia **22**(1): 10, 1883], nom. illeg. (Art. 53.1), non Speg. 1880.
≡ *Ramularia dubia* Riess, Hedwigia **1**: Pl. IV, Fig. 9, 1854.
≡ *Passalora dubia* (Riess) U. Braun, Mycotaxon **55**: 231, 1995.
= ***Cercospora chenopodii*** Fresen., Beiträge zur Mykologie **3**: 92, 1863.
[Full synonymy, see: https://www.mycobank.org/MB/181289.]
Notes: This is an illegitimate new combination published on the label of Winter, Fungi Eur. Extraeur. Exs. 2780 (fig. 18). Phylogenetically, this cercosporoid fungus belongs in *Cercospora* (see Groenewald et al. 2013: 148).

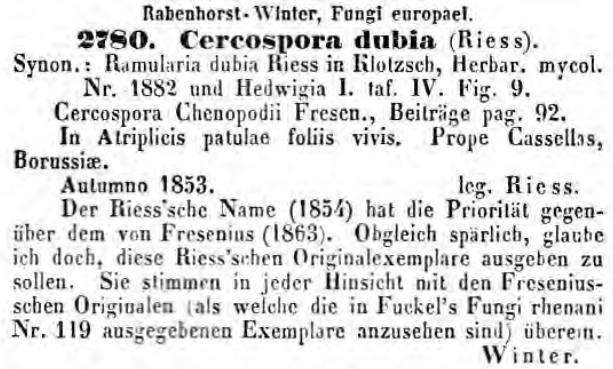
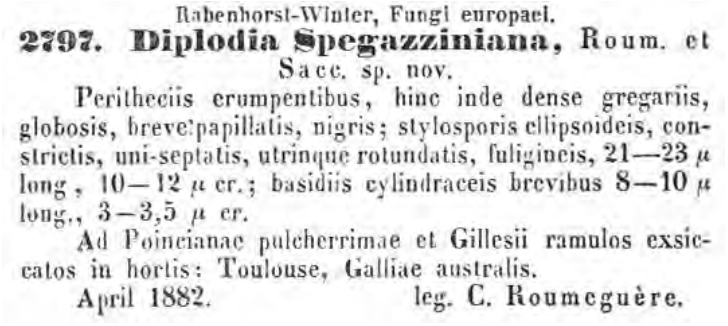

Rabenhorst-Winter, Fungi europaei.
2780. Cercospora dubia (Riess).
Synon.: Ramularia dubia Riess in Klotzsch, Herbar. mycol. Nr. 1882 und Hedwigia I. taf. IV. Fig. 9.
Cercospora Chenopodii Fresen., Beiträge pag. 92.
In Atriplicis patulae foliis vivis. Prope Cassellas, Borussiæ.
Autumno 1853. leg. Riess.
Der Riess'sche Name (1854) hat die Priorität gegenüber dem von Fresenius (1863). Obgleich spärlich, glaube ich doch, diese Riess'schen Originalexemplare ausgeben zu sollen. Sie stimmen in jeder Hinsicht mit den Fresenius'schen Originalen (als welche die in Fuckel's Fungi rhenani Nr. 119 ausgegebenen Exemplare anzusehen sind) überein.
Winter.

Fig. 18

Diplodia spegazziniana Roum. & Sacc., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 28: no. 2797, 1882 [Hedwigia **22**(1): 11, 1883].

≡ *Diplodia spegazziniana* Roum. & Sacc., in Saccardo, Michelia **2**(8): 622, 1882, isonymy (Art. 6.3, Note 2).

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2797 (Fig. 19).



Rabenhorst-Winter, Fungi europaei.

2797. Diplodia Spegazziniana, Roum. et Sacc. sp. nov.

Peritheciis erumpentibus, hinc inde dense gregariis, globosis, breve papillatis, nigris; stylosporis ellipsoideis, constrictis, uni-septatis, utrinque rotundatis, fuligineis, 21—23 μ long., 10—12 μ cr.; basidiis cylindraceis brevibus 8—10 μ long., 3—3,5 μ cr.

Ad Poincianae pulcherrimae et Gillesii ramulos exsiccatos in hortis: Toulouse, Galliae australis.

April 1882. leg. C. Roumeguère.

Fig. 19

Cent. 29

Trochila rubella G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 29: no. 2831, 1882 [Hedwigia **22**(1): 12, 1883].

≡ ***Naevia rubella*** (G. Winter) Rehm, Rabenh. Krypt.-Fl., Edn 2, **1**.3(Lief. 30): 139, 1888.

= *Micropeziza trollii* Wettst., Situngsber. Kaiserl. Akad. Wiss. Wien, Math.-Naturw. Cl., Abt. 1, **94**(1): 74, 1887.

≡ *Mollisia trollii* (Wettst.) Sacc., Syll. fung. **8**: 328, 1889.

≡ *Naevia trollii* (Wettst.) Boud., Hist. Class. Discom. Eur.: 169, 1907.

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2831 (fig. 20). Taxonomy, synonymy and description, see Hein (1976: 112). The generic affinity of this species is not yet finally proven (Hein, 1976).

Rabenhorst-Winter, Fungi europaei.

2831. Trochila rubella Winter nova spec.

Apothecia sparsa, innato-errumpentia, primo subhemisphaerica, concava, margine connivente, matura explanata, patellaeformia, orbicularia vel subellipsoidea, extus pallide-fusca, disco plano, rubello, margine tenui, sublacero, latit. ½ — 1 Millim. Asci clavati, deorsum in stipitem brevem attenuati, 8-spori, 85—120 μ longi, 14—17 μ lati; jodii ope ascorum porus intense caerulescit. Paraphyses filiformes, sursum parum incrassatae, hyalinae, apice 3, 5 μ crassae. Sporae distichae, oblongae inaequilaterales, utrinque parum attenutae, unicellulares, plerumque 2 guttulis, magnis praeditae, hyalinae, 21 μ longae, 5—5,5 μ latae.

Ad Trollii europaei petiolos aridos: Rigi prope Luzern, Helvetiae.

1. et 30. Juni 1882. leg. G. Winter.

Fig. 20

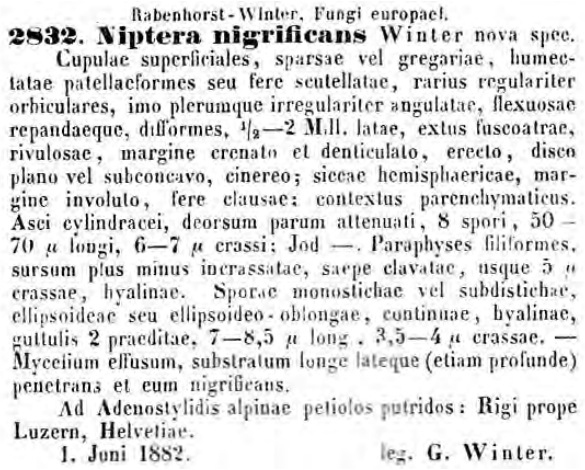
Niptera nigrificans G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 29: no. 2832, 1882 [Hedwigia **22**(1): 12, 1883].

≡ *Pyrenopeziza nigrificans* (G. Winter) Rehm, Ascomyceten, Fasc. XVIII, no. 862. 1882.

≡ *Tapesia nigrificans (*G. Winter) Boud., Hist. Class. Discom. Eur.: 139, 1907.

≡ *Ephelina nigrificans* (G. Winter) Rehm, Ber. Bayer. Bot. Ges. **13**: 183, 1912.

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2832 (fig. 21).



Rabenhorst-Winter, Fungi europaei.

2832. Niptera nigrificans Winter nova spec.

Cupulae superficiales, sparsae vel gregariae, humectatae patellaeformes seu fere scutellatae, rarius regulariter orbiculares, imo plerumque irregulariter angulatae, flexuosae repandaeque, difformes, 1/2—2 Mll. latae, extus fuscoatrae, rivulosae, margine crenato et denticulato, erecto, disco plano vel subconcavo, cinereo; siccae hemisphaericae, margine involuto, fere clausae: contextus parenchymaticus. Asci cylindracei, deorsum parum attenuati, 8 spori, 50—70 μ longi, 6—7 μ crassi: Jod —. Paraphyses filiformes, sursum plus minus incrassatae, saepe clavatae, usque 5 μ crassae, hyalinae. Sporae monostichae vel subdistichae, ellipsoideae seu ellipsoideo-oblongae, continuae, hyalinae, guttulis 2 praeditae, 7—8,5 μ long., 3,5—4 μ crassae. — Mycelium effusum, substratum longe lateque (etiam profunde) penetrans et cum nigrificans.

Ad Adenostylidis alpinae petiolos putridos: Rigi prope Luzern, Helvetiae.

1. Juni 1882. leg. G. Winter.

Fig. 21

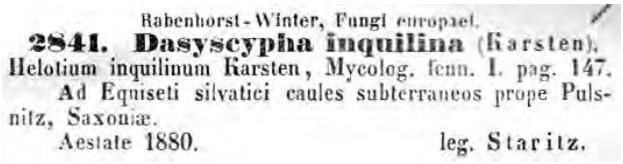
Dasyscyphus inquilinus (P. Karst.) G. Winter [as "*Dasyscypha inquilina*"], Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 29: no. 2841, 1882 [Hedwigia **22**(1): 13, 1883].

≡ *Helotium inquilinum* P. Karst., Not. Sällsk. Fauna Fl. Fenn. Förh. **11**: 241, 1870 [1871].

≡ ***Psilachnum inquilinum*** (P. Karst.) Dennis, Persoonia **2**(2): 182, 1962.

[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=337827; https://www.mycobank.org/MB/337827;
https://www.mycodb.fr/fiche.php?genre=Psilachnum&espece=inquilinum.]

Notes: This is a new combination validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2841 (fig. 22).



Rabenhorst-Winter, Fungi europaei.

2841. Dasyscypha inquilina (Karsten).

Helotium inquilinum Karsten, Mycolog. fenn. I. pag. 147.

Ad Equiseti silvatici caules subterraneos prope Pulsnitz, Saxoniae.

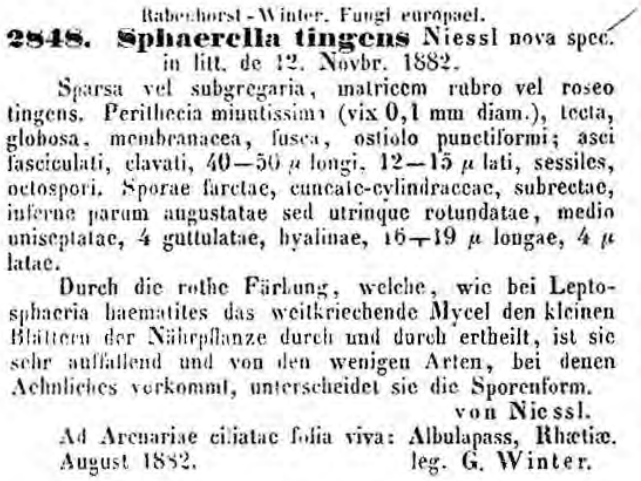
Aestate 1880. leg. Staritz.

Fig. 22

Sphaerella tingens Niessl, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 29: no. 2848, 1882 [Hedwigia **22**(1): 13, 1883].

≡ *Mycosphaerella tingens* (Niessl) Lindau, Hilfsb. Sammeln Ascomyc.: 12, 1903.

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2848 (fig. 23). Aptroot (2006: 199) mentioned that this species belongs to *Mycosphaerella* sect. *Caterva*, and that it is morpholgically indistinguishable from *M. superflua* (Auersw.) Petr.



Rabenhorst-Winter, Fungi europaei.

2848. Sphaerella tingens Niessl nova spec. in litt. de 12. Novbr. 1882.

Sparsa vel subgregaria, matricem rubro vel roseo tingens. Perithecia minutissima (vix 0,1 mm diam.), tecta, globosa, membranacea, fusca, ostiolo punctiformi; asci fasciculati, clavati, 40—50 μ longi, 12—15 μ lati, sessiles, octospori. Sporae farctae, cuneato-cylindraceae, subrectae, inferne parum angustatae sed utrinque rotundatae, medio uniseptatae, 4 guttulatae, hyalinae, 16—19 μ longae, 4 μ latae.

Durch die rothe Färbung, welche, wie bei Leptosphaeria haematites das weitkriechende Mycel den kleinen Blättern der Nährpflanze durch und durch ertheilt, ist sie sehr auffallend und von den wenigen Arten, bei denen Aehnliches vorkommt, unterscheidet sie die Sporenform.

von Niessl.

Ad Arenariae ciliatae folia viva: Albulapass, Rhætiae.

August 1882. leg. G. Winter.

Fig. 23

Strickeria trabicola (Fuckel) G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 29: no. 2863, 1882.
≡ ***Teichospora trabicola*** Fuckel, Jahrb. Nassauischen Vereins Naturk. **23-24**: 161, [1869-70] 1870.
Notes: This is a new combination validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2863 (fig. 24). Taxonomy and phylogeny, see Jaklitsch et al. (2016b).

Rabenhorst-Winter, Fungi europaei.
2863. Strickeria trabicola (Fckl.)
Teichospora trabicola Fckl., Symbol. pag. **161.**
Ad asseres vineti prope **Zürich, Helvetiæ.**
Novbr. **1882.** leg. **G. Winter.**

Fig. 24

Cylindrosporium veratrinum Sacc. & G. Winter, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 29: no. 2879, 1882 [Hedwigia **22**(1): 14, 1883].
≡ *Cercosporella veratrina* (Sacc. & G. Winter) Höhn., Ann. Mycol. **22**(1/2): 198, 1924.
= *Septoria sublineolata* Thüm., Bull. Soc. Imp. Nat. Moscou **52**(1): 151, 1877.
≡ *Septocylindrium sublineolatum* (Thüm.) J. Schröt., in Cohn, Krypt.-Fl. Schles., 3. Bd., Pilze, 2. Hälfte, 4. Lieferung: 494, 1897.
≡ *Cercosporella sublineolata* (Thüm.) Höhn., Ann. Mycol. **22**(1/2): 198, 1924.
≡ *Cercoseptoria sublineolata* (Thüm.) Petr., Sydowia **1**(4-6): 230, 1947.
≡ *Heteropatella sublineolata* (Thüm.) Leuchtm., Mycotaxon **28**: 279, 1987.
≡ ***Pseudocercosporella sublineolata*** (Thüm.) U. Braun, Nova Hedwigia **47**(3-4): 345, 1988.
≡ *Heterosphaeria sublineolata* (Thüm.) Leuchtm., in Johnston et al., IMA Fungus **5**(1): 100, 2014.
= *Cercosporella terminalis* Peck, Bull. New York State Mus. **157**: 23, 107, 1912.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2879 (fig. 25). Leuchtmann (1987: 279) erroneously introduced the new combination *Heteropatella sublineolata*, based on the assumption that *Septoria sublineolata* represents the asexual morph of *Heterosphaeria veratri*. This treatment was not based on the examination of type material. Braun (1995: 172) published a comprehensive treatment, description and illustration based on examinations of types. The asexual morph of *Heterosphaeria veratri* is characterised by having rather short, curved, rostrate conidia, 25–40 × 3–5 µm, 1–3-septate, whereas *Pseudocercosporella sublineolata* has very long, subcylindrical-filiform to slightly obcalvate, non-rostrate conidia, 60–120(–150) ×2–5(–6) µm, 1–5-septate. Type material of *Septoria sublineolata* has not been traced, but the original description (conidia 60 × 4 µm, cylindrical-filiform, not rostrate) is not in favour of the described asexual morph of *Heterosphaeria veratri*, but falls into the variation of the fungus called *Pseudocercosporella sublineolata* (Braun 1995). Sequence analyses are not yet available for *Pseudocercosporella sublineolata* so that a final conclusion to the generic affinity of this species is not yet possible. Therefore, we maintain this species tentatively in *Pseudocercosporella*.
Therefore, the correct name for the fungus treated in Leuchtmann (1987) is: ***Heterosphaeria veratri*** Nespiak & E. Müll., Beitr. Krypt.-Fl. Schweiz **15**(1): 44, 1977. Two species on *Veratrum* spp. with similar curved, rostrate conidia have to be taken into consideration as possible asexual morphs of *Heterosphaeria veratri*:
Mycocentrospora veratri (Peck) U. Braun, Nova Hedwigia **53**(3-4): 296, 1991.
≡ *Cercosporella veratri* Peck, Ann. Rep. N.Y. State Mus. **44**: 139, 1891.
≡ *Septocylindrium veratri* (Peck) J. Schröt., in Cohn, Krypt.-Fl. Schles., 3. Bd., Pilze, 2. Hälfte, 4. Lieferung: 494, 1897.
≡ *Centrospora veratri* (Peck) Ondřej, Česká Mykol. **28**(3): 187, 1974.
See: Braun (1995: 230).
and
Colletogloeum veratri-albi U. Braun & Scheuer, Fritschiana **58**: 29, 2007.

Rabenhorst-Winter, Fungi europaei.

2879. Cylindrosporium veratrinum Sacc. et Winter nova spec.

Acervulis minutis, innatis, seriatis, irregularibus, hyphis filiformibus, ramulosis hinc inde exerentibus; conidia bacillaria, curvula, utrinque rotundata, 75—90 μ longa, 3,5—4,5 μ crassa, bi-triseptata, non constricta, hyalina, dein in cumulos candidos expulsa.

Ad Veratri albi folia viva: Rigi prope Luzern, Helvetiæ.

30. Juni 1882. leg. G. Winter.

Fig. 25

Cercospora scandens Sacc. & G. Winter, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 29: no. 2881, 1882 [Hedwigia **22**(1): 14, 1883].

≡ *Cercosporina scandens* (Sacc. & G. Winter) Sacc., in Trotter, Syll. fung. **25**: 900, 1931.

[Full synonymy, see: https://www.mycobank.org/MB/205839.]

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2881 (fig. 26).

Rabenhorst-Winter, Fungi europaei.

2881. Cercospora scandens Sacc. et Wint. nova spec.

Maculis amphigenis, subrotundo-angulosis, deustis; caespitulis gregariis; hyphis fasciculatis, teretibus, continuis, simplicibus, 21—28 μ longis, 4—5 μ crassis, fuligineis; conidiis bacillaribus, rectiusculis utrinque rotundatis, 4—5-septatis, 54—60 μ longis, 3—4 μ latis, non constrictis, subhyalinis

Ad Tami communis folia viva. Zürichberg prope Zürich, Helvetiæ.

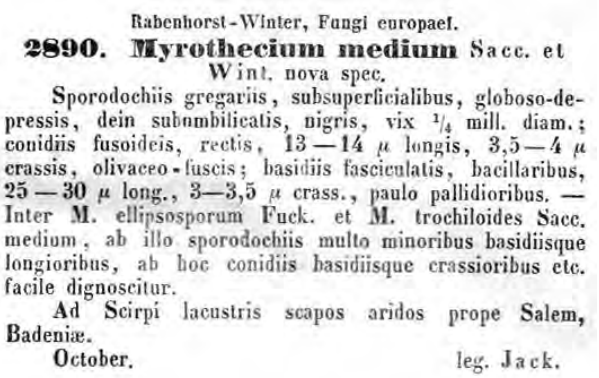
Juni 1882. leg. G. Winter.

Fig. 26

Myrothecium medium Sacc. & G. Winter, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 29: no. 2890, 1882 [Hedwigia **22**(1): 14, 1883].

≡ *Hymenopsis media* (Sacc. & G. Winter) Sacc., Syll. fung. **4**: 745, 1886.

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2890 (fig. 27).



Rabenhorst-Winter, Fungi europaei.

2890. Myrothecium medium Sacc. et Wint. nova spec.

Sporodochiis gregariis, subsuperficialibus, globoso-depressis, dein subumbilicatis, nigris, vix ¼ mill. diam.; conidiis fusoideis, rectis, 13—14 μ longis, 3,5—4 μ crassis, olivaceo-fuscis; basidiis fasciculatis, bacillaribus, 25—30 μ long., 3—3,5 μ crass., paulo pallidioribus. — Inter M. ellipsosporum Fuck. et M. trochiloides Sacc. medium, ab illo sporodochiis multo minoribus basidiisque longioribus, ab hoc conidiis basidiisque crassioribus etc. facile dignoscitur.

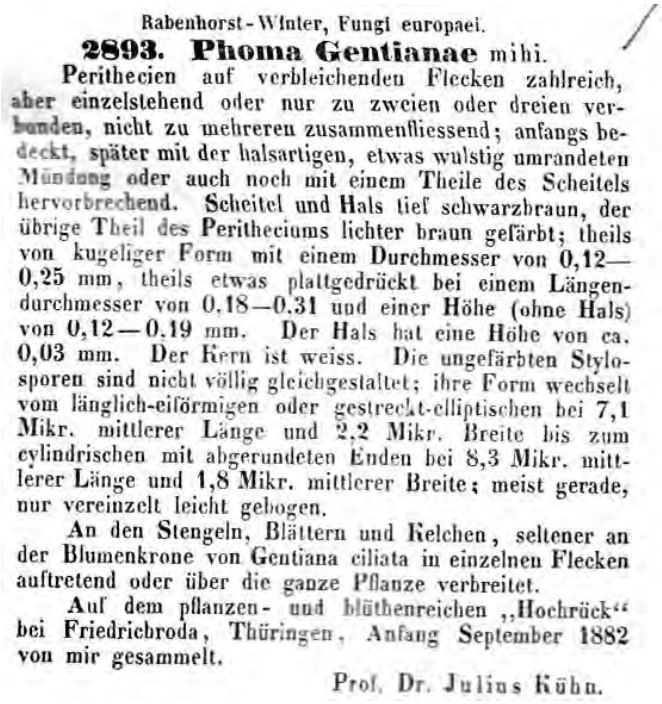
Ad Scirpi lacustris scapos aridos prope Salem, Badeniæ.

October. leg. Jack.

Fig. 27

Phoma gentianae J.G. Kühn, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 29: no. 2893, 1882 [Hedwigia **22**(1): 15, 1883].

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2893 (fig. 28).



Rabenhorst-Winter, Fungi europaei.

2893. Phoma Gentianae mihi.

Perithecien auf verbleichenden Flecken zahlreich, aber einzelstehend oder nur zu zweien oder dreien verbunden, nicht zu mehreren zusammenfliessend; anfangs bedeckt, später mit der halsartigen, etwas wulstig umrandeten Mündung oder auch noch mit einem Theile des Scheitels hervorbrechend. Scheitel und Hals tief schwarzbraun, der übrige Theil des Peritheciums lichter braun gefärbt; theils von kugeliger Form mit einem Durchmesser von 0,12—0,25 mm, theils etwas plattgedrückt bei einem Längendurchmesser von 0,18—0.31 und einer Höhe (ohne Hals) von 0,12—0,19 mm. Der Hals hat eine Höhe von ca. 0,03 mm. Der Kern ist weiss. Die ungefärbten Stylosporen sind nicht völlig gleichgestaltet; ihre Form wechselt vom länglich-eiförmigen oder gestreckt-elliptischen bei 7,1 Mikr. mittlerer Länge und 2,2 Mikr. Breite bis zum cylindrischen mit abgerundeten Enden bei 8,3 Mikr. mittlerer Länge und 1,8 Mikr. mittlerer Breite; meist gerade, nur vereinzelt leicht gebogen.

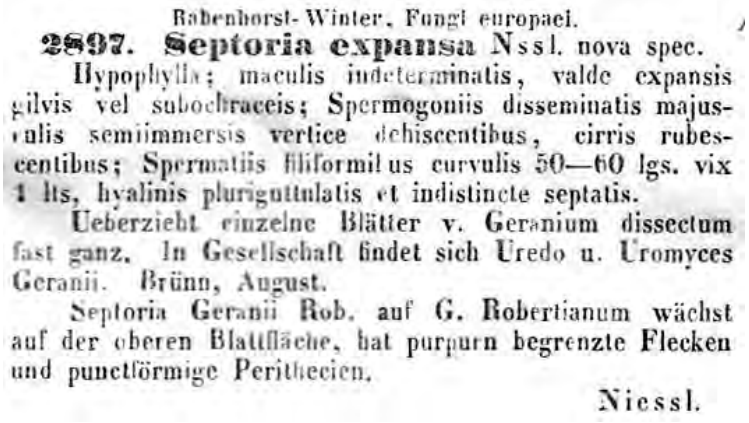
An den Stengeln, Blättern und Kelchen, seltener an der Blumenkrone von Gentiana ciliata in einzelnen Flecken auftretend oder über die ganze Pflanze verbreitet.

Auf dem pflanzen- und blüthenreichen „Hochrück" bei Friedrichroda, Thüringen, Anfang September 1882 von mir gesammelt.

Prof. Dr. Julius Kühn.

Fig. 28

Septoria expansa Niessl, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 29: no. 2897, 1882 [Hedwigia **22**(1): 15, 1883].
= *Isariopsis geranii* Săvul. & Sandu, Hedwigia **75**: 229, 1935.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2897 (fig. 29). Braun (1993: 437) reduced *Isariopsis geranii* to synonymy with *Septoria expansa*, which was based on the examination of lectotype material of *I. geranii*, designated in this paper [Romania, on *Geranium divaricatum*, Herb. Mycol. Rom. 660, BUCM 36949]. The conidia in the lectotype formed large cirrhi that had probably been confused with synnemata.



Rabenhorst-Winter, Fungi europaei.

2897. Septoria expansa Nssl. nova spec.

Hypophylla; maculis indeterminatis, valde expansis gilvis vel subochraceis; Spermogoniis disseminatis majusculis semiimmersis vertice dehiscentibus, cirris rubescentibus; Spermatiis filiformibus curvulis 50—60 lgs. vix 1 lis, hyalinis pluriguttulatis et indistincte septatis.

Ueberzieht einzelne Blätter v. Geranium dissectum fast ganz. In Gesellschaft findet sich Uredo u. Uromyces Geranii. Brünn, August.

Septoria Geranii Rob. auf G. Robertianum wächst auf der oberen Blattfläche, hat purpurn begrenzte Flecken und punctförmige Perithecien.

Niessl.

Fig. 29

Cent. 30

[Note: Descriptions and diagnoses of new taxa published in Cent. 30 were repeated in Hedwigia 22(11), Nov. 1883 and (12), Dec. 1883.]

Cercospora olivacea (Berk. & Ravenel) G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 30: no. 2974, 1883, nom. illeg. (Art. 53.1), non G.H. Otth, 1869.
≡ *Helminthosporium olivaceum* Berk. & Ravenel, in Berkeley, Grevillea **3**(27): 102, 1875.
Notes: This is an illegitimate name published on the label of Winter, Fungi Eur. Extraeur. Exs. 2974 (fig. 30). See Crous & Braun (2003).

Rabenhorst-Winter, Fungi europaei.
2974. Cercospora olivacea (B. et R.)
Helminthosporium olivaceum B. et R. in Grevillea III. p. 102.
Cercospora Seymouriana Winter in Hedwigia 1883. p. 70.
America borealis: Fulton County, Illinois. Ad Gleditschiae triacanthos L. folia viva.
October 1881. leg. A. B. Seymour.

Fig. 30

Cercosporella rhaetica Sacc. & G. Winter, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 30: no. 2976, 1883 [Hedwigia **22**(11): 175, 1883].
≡ ***Ramularia rhaetica*** (Sacc. & G. Winter) Jaap, Verh. Bot. Vereins Prov. Brandenburg **56**: 92, 1914.
= *Ramularia imperatoriae* Lindau, in Rabenh., Krypt.-Fl., Ed. 2, **1**.8 (Lief. 99): 478, 1906.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2976 (fig. 31). Taxonomy, description and illustration, see Braun (1998: 54). The duplicate of G. Winter, Rabenh. Fungi Eur. Extraeur. Exs., no. 2976, deposited at HAL, s.n., was designated as lectotype in Braun (1998: 55).

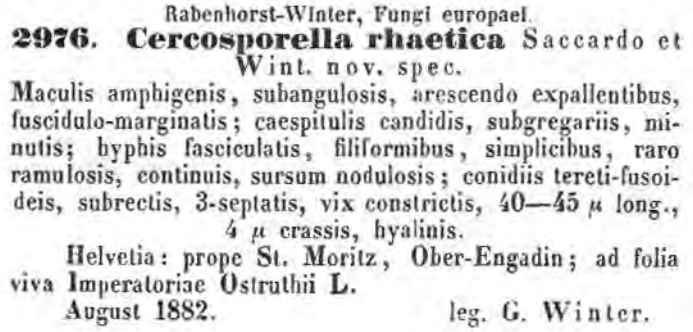

Rabenhorst-Winter, Fungi europaei.
2976. Cercosporella rhaetica Saccardo et Wint. nov. spec.
Maculis amphigenis, subangulosis, arescendo expallentibus, fuscidulo-marginatis; caespitulis candidis, subgregariis, minutis; hyphis fasciculatis, filiformibus, simplicibus, raro ramulosis, continuis, sursum nodulosis; conidiis tereti-fusoideis, subrectis, 3-septatis, vix constrictis, 40—45 μ long., 4 μ crassis, hyalinis.
Helvetia: prope St. Moritz, Ober-Engadin; ad folia viva Imperatoriae Ostruthii L.
August 1882. leg. G. Winter.

Fig. 31

Strumella coryneoidea Sacc. & G. Winter, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 30: no. 2984, 1883 [Hedwigia **22**(11): 175, 1883].
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2984 (fig. 32). Davidson (1950) assumed *Urnula criterium* to be the sexual morph of *Strumella coryneoidea* (Schwein.) Fr., which is, however, unproven. The latter species is usually tentatively treated as an anamorphic *Urnula* species (see, for instance, Wang et al. 2005).

Rabenhorst-Winter, Fungi europaei.
2984. Strumella coryneoidea Sacc. et Winter nov. spec.
Sporodochiis gregariis, superficialibus, compactiusculis atro-olivaceis, 1/2 — 3/4 Mill. Diam.; hyphis e basi stromatica oriundis, densis, simplicibus vel parce ramosis, septatis, 60—100 μ longis, 7—8 μ crassis, fuligineis; conidiis obovatis vel subtrigonis, inaequalibus, 10—12 μ longis, 6—7 μ latis, 1—2-guttatis, opace fuligineis, continuis, rarissime 1-septatis.
America borealis: Perryville, Missouri ad Quercus albae L. ramos aridos.
April 1883. leg. C. H. Demetrio.

Fig. 32

Septoria trollii Sacc. & G. Winter, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 30: no. 2994, 1883 [Hedwigia **22**(12): 180, 1883].
≡ *Phloeospora trollii* (Sacc. & G. Winter) Jaap, Ann. Mycol. **6**(3): 221, 1908.
≡ ***Pseudocercosporella trollii*** (Sacc. & G. Winter) U. Braun, Nova Hedwigia **47**(3-4): 345, 1988.

= *Cylindrosporium montenegrinum* Bubák, Bot. Közl. **14**(3-4): (76), 1915.
= *Cercosporella trolliicola* Bond.-Mont., in Smarods, Fungi Latv. Exs., Fasc. IX, no. 444, Riga 1934.
[with description on the label, see:
https://mycoportal.org/portal/collections/individual/index.php?occid=11684057&clid=0.]
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2994 (fig. 33). Taxonomy, description and illustration, see Braun (1995: 184).

Rabenhorst-Winter, Fungi europaei.
2994. Septoria Trollii Sacc. et Winter
nov. spec.
Maculis vagis, amphigenis, arescendo-expallentibus, subimmarginatis; peritheciis perexiguis, tectis (spuriis?), gregariis, fuscellis, 40—50 μ Diam. Spermatiis filiformibus, curvulis, 40—50 μ longis, 1—1,5 μ crassis, continuis, subinde spurie 3-septatis, hyalinis.
Helvetia: Rigi prope Luzern. Ad Trollii europaei L. folia viva.
Juni 1882. leg. G. Winter.

Fig. 33

Septoria visci Bres., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 30: no. 2995, 1883 [Hedwigia **22**(12): 180, 1883].
≡ ***Rhabdospora visci*** (Bres.) Kuntze, Revis. gen. pl. **3**(3): 514, 1898.
≡ *Septocyta visci* (Bres.) Punith. & Spooner, Kew Bull. **57**(3): 545, 2002.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2995 (fig. 34).

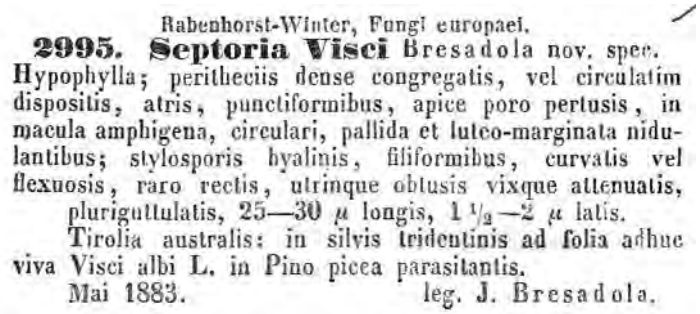

Rabenhorst-Winter, Fungi europaei.
2995. Septoria Visci Bresadola nov. spec.
Hypophylla; peritheciis dense congregatis, vel circulatim dispositis, atris, punctiformibus, apice poro pertusis, in macula amphigena, circulari, pallida et luteo-marginata nidulantibus; stylosporis hyalinis, filiformibus, curvatis vel flexuosis, raro rectis, utrinque obtusis vixque attenuatis, pluriguttulatis, 25—30 μ longis, 1½—2 μ latis.
Tirolia australis: in silvis tridentinis ad folia adhuc viva Visci albi L. in Pino picea parasitantis.
Mai 1883. leg. J. Bresadola.

Fig. 34

Septoria xylostei Sacc. & G. Winter, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 30: no. 2996, 1883 [Hedwigia **22**(12): 181, 1883].
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2996 (fig. 35).

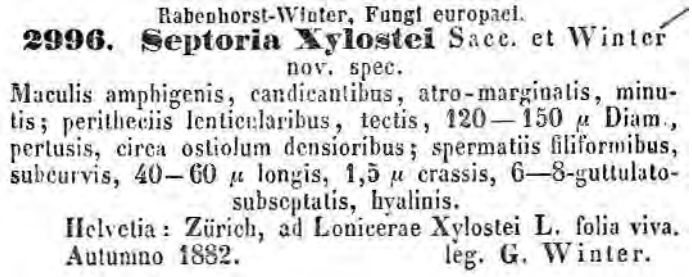
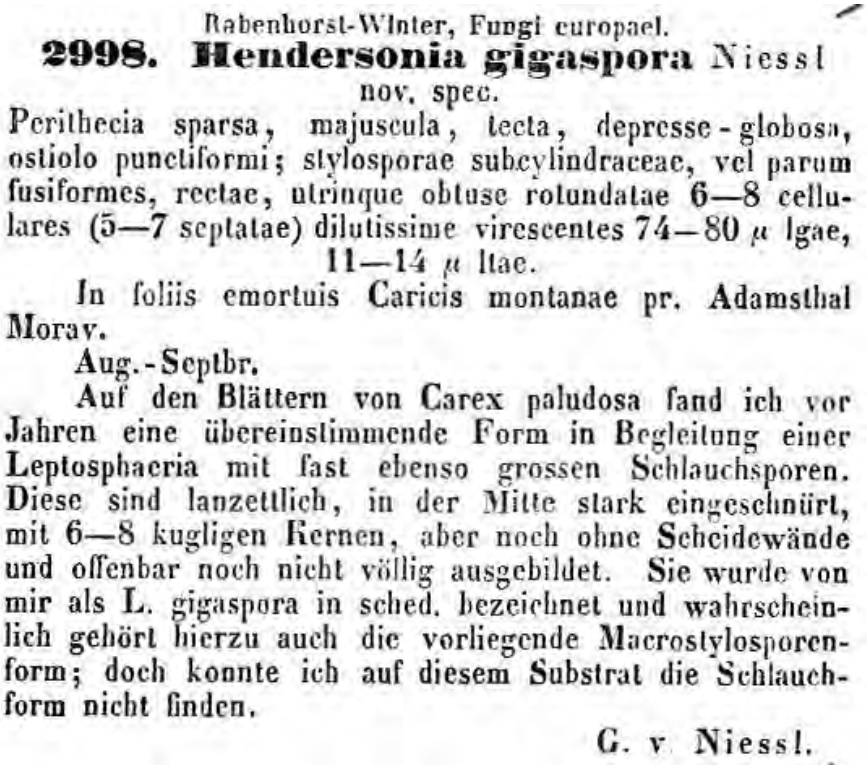

Rabenhorst-Winter, Fungi europaei.
2996. Septoria Xylostei Sacc. et Winter
nov. spec.
Maculis amphigenis, candicantibus, atro-marginatis, minutis; peritheciis lenticularibus, tectis, 120—150 μ Diam., pertusis, circa ostiolum densioribus; spermatiis filiformibus, subcurvis, 40—60 μ longis, 1,5 μ crassis, 6—8-guttulato-subseptatis, hyalinis.
Helvetia: Zürich, ad Lonicerae Xylostei L. folia viva.
Autumno 1882. leg. G. Winter.

Fig. 35

Hendersonia gigaspora Niessl, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 30: no. 2998, 1883 [Hedwigia **22**(12): 181, 1883].
≡ ***Stagonospora gigaspora*** (Niessl) Sacc., Syll. fung. **3**: 453, 1884.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 2998 (fig. 36).



Rabenhorst-Winter, Fungi europaei.

2998. Hendersonia gigaspora Niessl nov. spec.

Perithecia sparsa, majuscula, tecta, depresse-globosa, ostiolo punctiformi; stylosporae subcylindraceae, vel parum fusiformes, rectae, utrinque obtuse rotundatae 6—8 cellulares (5—7 septatae) dilutissime virescentes 74—80 μ lgae, 11—14 μ ltae.

In foliis emortuis Caricis montanae pr. Adamsthal Morav.

Aug.-Septbr.

Auf den Blättern von Carex paludosa fand ich vor Jahren eine übereinstimmende Form in Begleitung einer Leptosphaeria mit fast ebenso grossen Schlauchsporen. Diese sind lanzettlich, in der Mitte stark eingeschnürt, mit 6—8 kugligen Kernen, aber noch ohne Scheidewände und offenbar noch nicht völlig ausgebildet. Sie wurde von mir als L. gigaspora in sched. bezeichnet und wahrscheinlich gehört hierzu auch die vorliegende Macrostylosporenform; doch konnte ich auf diesem Substrat die Schlauchform nicht finden.

G. v. Niessl.

Fig. 36

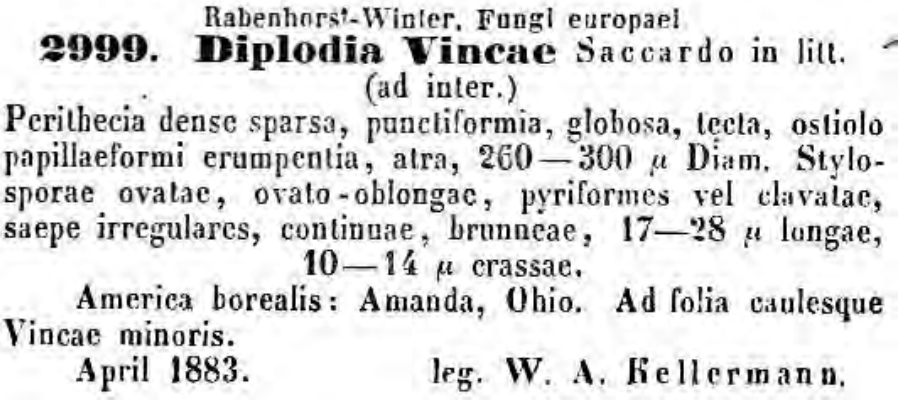
Diplodia vincae Sacc., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 30: no. 2999, 1883 [Hedwigia **22**(12): 181, 1883], nom. inval. (Art. 36.1).

≡ *Diplodia vincae* Sacc. & G. Winter, Atti Reale Ist. Veneto Sci. Lett. Arti, Sér. 6, **2**: 462, 1884.

≡ *Sphaeropsis vincae* (Sacc. & G. Winter) Sacc., Syll. fung. **3**: 302, 1884.

≡ *Macroplodia vincae* (Sacc. & G. Winter) Kuntze, Revis. gen. pl. **3**(3): 492, 1898.

Notes: This is an invalid name published on the label of Winter, Fungi Eur. Extraeur. Exs. 2999 (fig. 37).



Rabenhorst-Winter, Fungi europaei.

2999. Diplodia Vincae Saccardo in litt. (ad inter.)

Perithecia dense sparsa, punctiformia, globosa, tecta, ostiolo papillaeformi erumpentia, atra, 260—300 μ Diam. Stylosporae ovatae, ovato-oblongae, pyriformes vel clavatae, saepe irregulares, continuae, brunneae, 17—28 μ longae, 10—14 μ crassae.

America borealis: Amanda, Ohio. Ad folia caulesque Vincae minoris.

April 1883. leg. W. A. Kellermann.

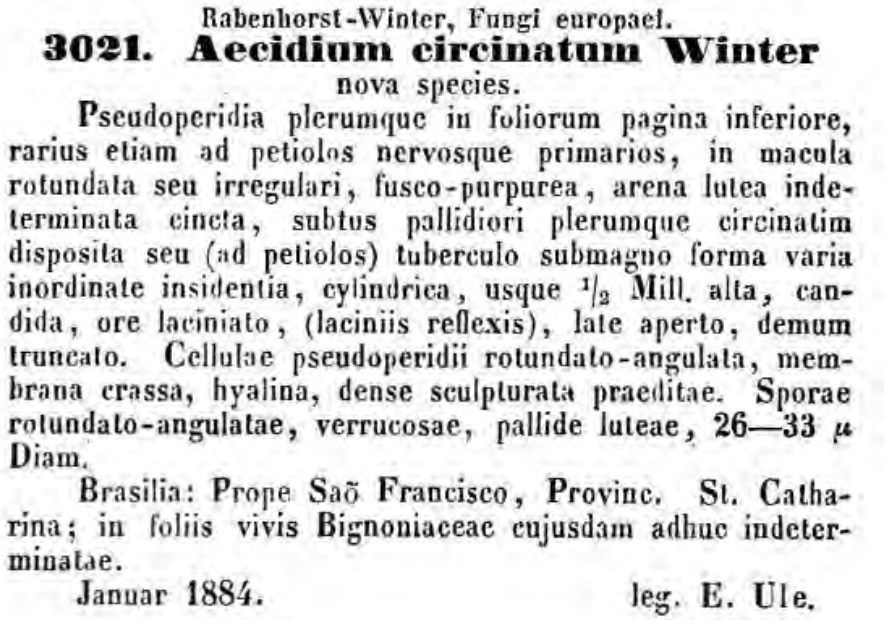
Fig. 37

Cent. 31

[Descriptions and diagnoses from Cent. 31 were repeated in Hedwigia 23(11), Nov. 1884.]

Aecidium circinatum G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 31: no. 3021, 1884 [Hedwigia **23**(11): 168, 1884].

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3021 (fig. 38).



Rabenhorst-Winter, Fungi europaei.

3021. Aecidium circinatum Winter

nova species.

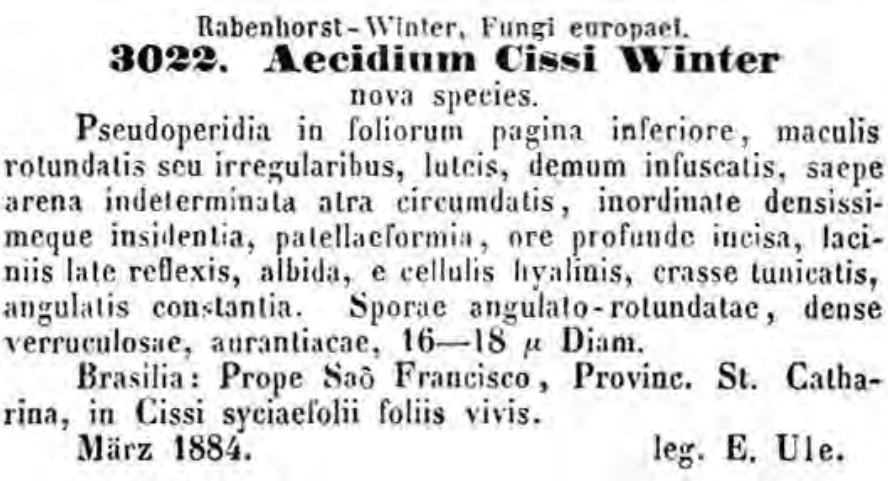
Pseudoperidia plerumque in foliorum pagina inferiore, rarius etiam ad petiolos nervosque primarios, in macula rotundata seu irregulari, fusco-purpurea, arena lutea indeterminata cincta, subtus pallidiori plerumque circinatim disposita seu (ad petiolos) tuberculo submagno forma varia inordinate insidentia, cylindrica, usque 1/2 Mill. alta, candida, ore laciniato, (laciniis reflexis), late aperto, demum truncato. Cellulae pseudoperidii rotundato-angulata, membrana crassa, hyalina, dense sculpturata praeditae. Sporae rotundato-angulatae, verrucosae, pallide luteae, 26—33 μ Diam.

Brasilia: Prope Saõ Francisco, Provinc. St. Catharina; in foliis vivis Bignoniaceae cujusdam adhuc indeterminatae.

Januar 1884. leg. E. Ule.

Fig. 38

Aecidium cissi G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 31: no. 3022, 1884 [Hedwigia **23**(11): 168, 1884].
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3022 (fig. 39).



Rabenhorst-Winter, Fungi europaei.

3022. Aecidium Cissi Winter

nova species.

Pseudoperidia in foliorum pagina inferiore, maculis rotundatis seu irregularibus, luteis, demum infuscatis, saepe arena indeterminata atra circumdatis, inordinate densissimeque insidentia, patellaeformia, ore profunde incisa, laciniis late reflexis, albida, e cellulis hyalinis, crasse tunicatis, angulatis constantia. Sporae angulato-rotundatae, dense verruculosae, aurantiacae, 16—18 μ Diam.

Brasilia: Prope Saõ Francisco, Provinc. St. Catharina, in Cissi sycioefolii foliis vivis.

März 1884. leg. E. Ule.

Fig. 39

Aecidium pseudocolumnare J.G. Kühn, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 31: no. 3027, 1884 [Hedwigia **23**(11): 169, 1884].
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3027 (fig. 40). This is a name for aecial stages of various *Milenia* species (Gäumann 1959, Klenke & Scholler 2015).

Rabenhorst-Winter, Fungi europaei.

3027. Aecidium pseudo-columnare
J. Kühn nov. spec.

Aecidien in zwei Längsreihen auf der unteren Seite der in Länge und Breite nicht modificirten, aber mehr oder weniger entfärbten, bleichgrünen bis weisslichen Nadeln. Pseudoperidie meist von rundlichem, doch auch eiförmigem oder länglich-elliptischen, selten schmal-länglichem Umriss mit verschieden hoher, am Rande unregelmässig zerrissener, weisser Hülle, deren Länge von kaum 0,5 bis 2 mm wechselt. — Sporen weiss, feingewarzt; rundlich, eiförmig, länglich-elliptisch oder unregelmässig gestaltet, zuweilen abgestutzt keilig, selbst abgerundet dreieckig im Durchschnitt. Die runden Formen messen im Mittel nahezu 23 μ; die Länge der übrigen wechselt von 22,8—37,2 μ, die Breite von 18,5—25,7 μ.

In den Monaten August und September 1883 am Fusse bis fast zum Gipfel des „Blauen" bei Badenweiler im Schwarzwald von mir gesammelt.

Obs.: Die mit längerer Hülle versehenen Formen erinnern an ausgebleichte Exemplare von Aecidium columnare Alb. et Schw., unterscheiden sich aber von diesem Pilz wie von Aec. elatinum Alb. et Schw., durch die sowohl bei noch geschlossener wie geöffneter Hülle stets weiss gefärbten Sporen. Diese sind grösser und unregelmässiger gestaltet, als bei Aec. columnare, dagegen sind die Zellen der Hülle etwas kleiner und zarter geleistet, wie bei letzterem Pilze. Das Aec. pseudo-columnare tritt an den Nadeln von Sämlingspflanzen wie an denen alter Bäume, von den unteren Aesten bis zur Spitze derselben auf. Häufig kommt es zerstreut und an einzelnen Nadeln vor, nicht selten befällt es aber auch alle Nadeln jüngster Triebe. Zuweilen ist nur die untere oder die Spitzenhälfte einer Nadel mit Aecidien besetzt, stets ist aber der befallene Nadeltheil gebleicht. Selten findet sich nur eine Reihe von Aecidien vor.

Halle, den 26. Juli 1884.
Prof. Dr. Julius Kühn.

Fig. 40

Didymella maculiformis G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 31: no. 3056, 1884 [Hedwigia **23**(11): 169, 1884].
≡ *Cercidospora maculiformis* (G. Winter) Kuntze, Revis. gen. pl. **3**(3): 454, 1898.
≡ *Oligostroma maculiformis* (G. Winter) Doidge, Bothalia **1**(1): 31, 1921.
≡ ***Teratosphaeria maculiformis*** (G. Winter) Joanne E. Taylor & Crous, IMI Descr. Fungi Bact. **135**(nos 1341-1350): [13], 1999.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3056 (fig. 41).

Rabenhorst-Winter, Fungi europaei.

3056. Didymella maculiformis Winter
nova species.

Perithecia amphigena, densissime stipata, greges maculiformes, irregulares, magnos, saepe confluentes (usque 6 Centim. latos), formantia, immersa, punctiformia, e basi globosa brevissime conica, poro simplici pertusa, epidermide circa verticem vix prominentem nigrefacta tecta, 150 — 180 μ diam. Asci oblongi, brevissime stipitati, sursum parum attenuati, 8spori, 78—82 μ longi, 16—17 μ crassi. Sporae distichae, cylindraceae, inaequaliter didymae, ad septum parum constrictae, hyalinae, 26—30 μ longae, 5—6 μ crassae. Paraphyses conglutinatae.

Promont. bonae spei: prope Capetown, in foliis emortuis Proteae grandiflorae Thunb.

Juni 1884. leg. Mac Owan.

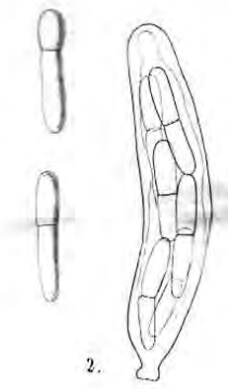
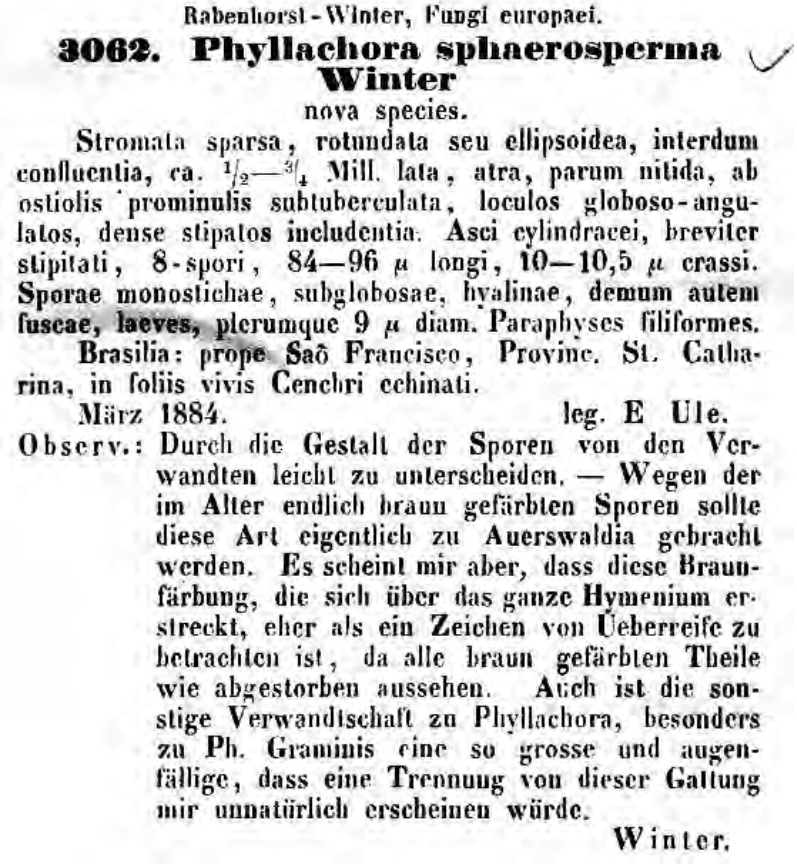


Fig. 41

Phyllachora sphaerosperma G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 31: no. 3062, 1884 [Hedwigia **23**(11): 170, 1884].

≡ *Sphaerodothis sphaerosperma* (G. Winter) F. Stevens & W.D. Moore, Illinois Biol. Monogr. **11**(2): 195, 1927.

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3062 (fig. 42). This is a recognised species of the genus *Phyllachora* (see Parbery 1967).



Rabenhorst-Winter, Fungi europaei.

3062. Phyllachora sphaerosperma Winter

nova species.

Stromata sparsa, rotundata seu ellipsoidea, interdum confluentia, ca. 1/2—3/4 Mill. lata, atra, parum nitida, ab ostiolis prominulis subtuberculata, loculos globoso-angulatos, dense stipatos includentia. Asci cylindracei, breviter stipitati, 8-spori, 84—96 μ longi, 10—10,5 μ crassi. Sporae monostichae, subglobosae, hyalinae, demum autem fuscae, laeves, plerumque 9 μ diam. Paraphyses filiformes.

Brasilia: prope Saõ Francisco, Provinc. St. Catharina, in foliis vivis Cenchri echinati.

März 1884. leg. E Ule.

Observ.: Durch die Gestalt der Sporen von den Verwandten leicht zu unterscheiden. — Wegen der im Alter endlich braun gefärbten Sporen sollte diese Art eigentlich zu Auerswaldia gebracht werden. Es scheint mir aber, dass diese Braunfärbung, die sich über das ganze Hymenium erstreckt, eher als ein Zeichen von Ueberreife zu betrachten ist, da alle braun gefärbten Theile wie abgestorben aussehen. Auch ist die sonstige Verwandtschaft zu Phyllachora, besonders zu Ph. Graminis eine so grosse und augenfällige, dass eine Trennung von dieser Gattung mir unnatürlich erscheinen würde.

Winter.

Fig. 42

Auerswaldia disciformis G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 31: no. 3063, 1884 [Hedwigia **23**(11): 170, 1884].

≡ *Dothidina disciformis* (G. Winter) Theiss. & Syd., Ann. Mycol. **13**(3/4): 304, 1915.

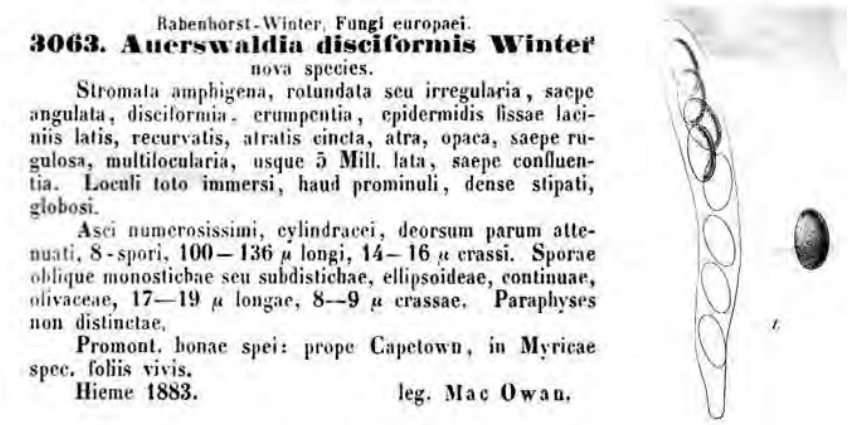
≡ *Stichodothis disciformis* (G. Winter) Petr., Ann. Mycol. **25**(3/4): 198, 1927.

≡ *Auerswaldiella winteri* Arx & E. Müll., Beitr. Kryptfl. Schweiz **11**(1): 68, 1954, nom. illeg. (Art. 52.1).

≡ ***Auerswaldiella disciformis*** (G. Winter) U. Braun & Bensch, **comb. nov.** [MycoBank, MB 842493]

Bas.: *Auerswaldia disciformis* G. Winter, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 31: no. 3063, 1884.

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3063 (fig. 43). Arx & Müller (1954: 68) introduced the replacement name *Auerswaldiella winteri*, based on *Auerswaldia disciformis*, in order to avoid a homonym, since the name *Auerswaldiella disciformis* Chardón, 1939, already existed. Arx & Müller (1954: 62) reduced the name *Auerswaldiella disciformis* Chardón to synonymy with *Auerswaldia eximinans* (Mont. & Berk.) Sacc. However, they overlooked that Chardón's name was not validly published (Art. 39.1, see also Rojas et al. 2010). Therefore, *Auerswaldiella winteri* is an illegitimate (superfluous) name (Art. 52.1). Homonyms do only refer to previously and validly published names with exactly the same spelling, but not to invalid names.



Rabenhorst-Winter, Fungi europaei.

3063. Auerswaldia disciformis Winter

nova species.

Stromata amphigena, rotundata seu irregularia, saepe angulata, disciformia, erumpentia, epidermidis fissae laciniis latis, recurvatis, atratis cincta, atra, opaca, saepe rugulosa, multilocularia, usque 5 Mill. lata, saepe confluentia. Loculi toto immersi, haud prominuli, dense stipati, globosi.

Asci numerosissimi, cylindracei, deorsum parum attenuati, 8-spori, 100—136 μ longi, 14—16 μ crassi. Sporae oblique monostichae seu subdistichae, ellipsoideae, continuae, olivaceae, 17—19 μ longae, 8—9 μ crassae. Paraphyses non distinctae.

Promont. bonae spei: prope Capetown, in Myricae spec. foliis vivis.

Hieme 1883. leg. Mac Owan.

Fig. 43

Cercospora demetrioniana G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 31: no. 3079, 1884 [Hedwigia **23**(11): 170, 1884].
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3079 (fig. 44).

Rabenhorst-Winter, Fungi europaei.

3079. Cercospora Demetrioniana Winter

nova species.

Maculae magnae, saepe rotundatae, interdum confluentes, pallide fuscae, subtus griseae, plerumque concentrice zonatae; caespites amphigeni, minutissimi, sparsi; hyphae fasciculatae, non vel parum torulosae, parce remoteque septatae, fuscae, plerumque 110—130 μ longae, 5—6 μ crassae, interdum valde elongatae, usque 1 Mill. longae. Sporae filiformi-subclavatae, i. e: e basi parum incrassata sursum paullatim longissimeque attenuatae, hyalinae, multiseptatae, fuscidulae, usque 170 μ longae, 5—5½ μ crassae.

America borealis: prope Perryville, Missouri, ad Crotalariae sagittalis L. folia viva.

Aestate 1883. leg. C. H. Demetrio.

Notiz: Ich habe diese ausgezeichnete neue Art zu Ehren meines hochverehrten Freundes Demetrio benannt, der mit unermüdlichem Eifer die Flora seiner Heimath durchforscht und dem die Wissenschaft schon manche neue Art, unsere Sammlung zahlreiche der interessantesten Beiträge verdankt.

G. Winter.

Fig. 44

Cercospora glaucescens G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 31: no. 3080, 1884 [Hedwigia **23**(11): 171, 1884].
≡ ***Pseudocercospora glaucescens*** (G. Winter) U. Braun, Cryptog. Mycol. **20**(3): 169, 1999.
= *Cercospora tuberosa* Ellis & Kellerm., Bull. Torrey Bot. Club **11**(10): 116, 1884.

Rabenhorst-Winter, Fungi europaei.

3080. Cercospora glaucescens Winter

nov. spec.

Maculae indeterminatae, a nervis secundariis limitatae, saepe confluentes, in pagina foliorum superiore fuscoatrae, in pagina inferiore glaucae vel demum pallide fuscescentes. Caespites plerumque hypophylli, dense sparsi, minuti. Hyphae fasciculatae, fuscae, septatae, teretes, sursum modo parum torulosae, usque 70 μ (plerumque 40 μ) longae, 5 μ crassae. Sporae longissime cylindraceae, demum apicem versus parum attenuatae, parce septatae, pallidissime olivaceae, usque 170 μ longae, 5 μ crassae.

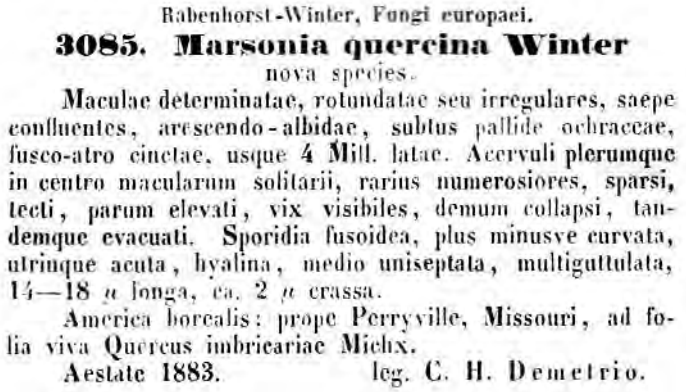
America borealis: prope Perryville, Missouri, ad Apionis tuberosae Mönch folia languida.

Aestate 1883. leg. C. H. Demetrio.

Fig. 45

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3080 (fig. 45).

Marssonia quercina G. Winter [as "*Marsonia*"], Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 31: no. 3085, 1884 [Hedwigia **23**(11): 171, 1884].
≡ ***Marssonina quercina*** (G. Winter) Lentz, Mycologia **42**(2): 263, 1950.
≡ *Discella quercina* (G. Winter) Arx, Verh. Kon. Ned. Akad. Wetensch., Sect. 2, **51**(3): 135, 1957, nom. illeg. (Art. 53.1), non Cooke, 1883.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3085 (fig. 46).


Rabenhorst-Winter, Fungi europaei.

3085. Marsonia quercina Winter

nova species.

Maculae determinatae, rotundatae seu irregulares, saepe confluentes, arescendo-albidae, subtus pallide ochraceae, fusco-atro cinctae, usque 4 Mill. latae. Acervuli plerumque in centro macularum solitarii, rarius numerosiores, sparsi, tecti, parum elevati, vix visibiles, demum collapsi, tandemque evacuati. Sporidia fusoidea, plus minusve curvata, utrinque acuta, hyalina, medio uniseptata, multiguttulata, 14—18 μ longa, ca. 2 μ crassa.

America borealis: prope Perryville, Missouri, ad folia viva Quercus imbricariae Michx.

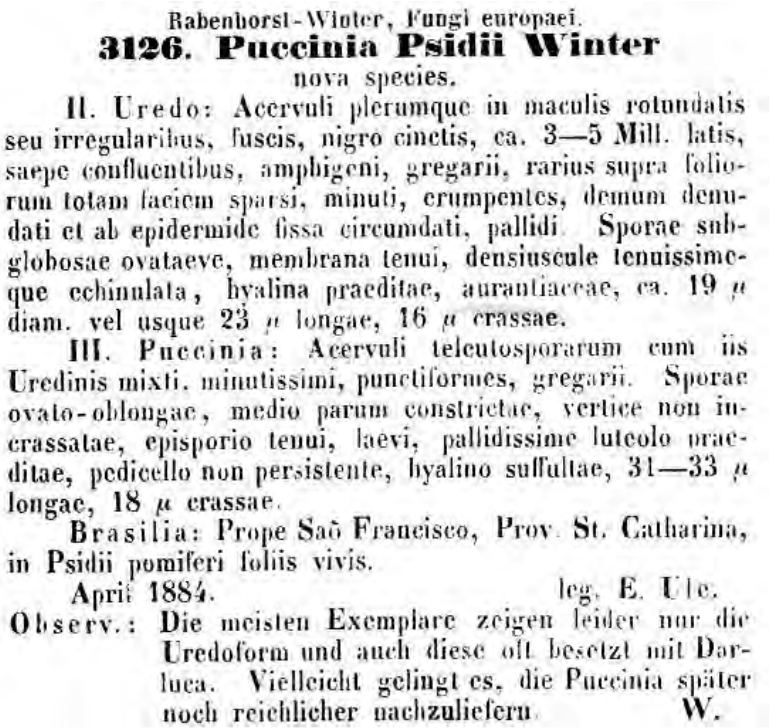
Aestate 1883. leg. C. H. Demetrio.

Fig. 46

Cent. 32
[Descriptions and diagnoses from Cent. 32 were repeated in Hedwigia 23(11), Nov. 1884.]

Puccinia psidii G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 32: no. 3126, 1884 [Hedwigia **23**(11): 171, 1884], **nom. cons. prop.**
≡ *Dicaeoma psidii* (G. Winter) Kuntze, Revis. gen. pl. **3**(3): 470, 1898.
≡ *Bullaria psidii* (G. Winter) Arthur & Mains, N. Amer. Fl. **7**(7): 488, 1922.
≡ ***Austropuccinia psidii*** (G. Winter) Beenken, Phytotaxa **297**(1): 55, 2017.
= *Caeoma eugeniarum* Link, in Willdenow, Sp. pl., Edn 4, **6**(2): 29, 1825. Holotype: Brazil, Rio de Janeiro, on *Eugenia* sp., undated, H.K. Beyrich (B). Isotype: MICH 13224.
≡ *Uredo eugeniarum* (Link) Buriticá, in Buriticá & Pardo-Cardona, Revista Acad. Colomb. Cienc. Exact. Fís. Nat. **20**(77): 222, 1996, nom. illeg. (Art. 53.1), non *Uredo eugeniarum* Henn., 1895.
≡ *Uredo psidii* J.A. Simpson, K. Thomas & Grgur., Australas. Pl. Pathol. **35**(5): 555, 2006 [nom. nov.].
[*Uredo globosoflava* Bonord. [as "*globoso-flava*"], Abh. Naturf. Ges. Halle **5**: 197, 1860, nom. illeg. (Art. 52.1), p.p.]
= *Uredo neurophila* Speg. [as "*neurophyla*"], Anal. Soc. Cient. Argent. **17**(3): 122, 1884.
≡ *Puccinia neurophila* (Speg.) Speg., Revista Argent. Bot. **1**: 120, 1925, nom. illeg. (Art. 53.1), non Grognot, 1863.
= *Uredo flavidula* G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 33: no. 3307, 1885 [Hedwigia **24**(6): 259, 1885].
= *Uredo myrtacearum* Pazschke, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 37: no. 3633, 1890 [Hedwigia **29**(3): 159, 1890].
= *Uredo eugeniarum* Henn., Hedwigia **34**: 337, 1895.
= *Aecidium glaziovii* Henn., Hedwigia **36**: 216, 1897.
= *Uredo pitanga* Speg., Anal. Mus. Nac. Hist. Nat. B. Aires **6**: 240, [1898] 1899.
= *Puccinia jambosiae* Henn., Hedwigia **44**: 105, 1902.
= *Uredo puttemansii* Henn., Hedwigia **41**: 106, 1902.
= *Uredo goeldiana* Henn., Beibl. Hedwigia **42**: (188), 1903.
= *Uredo rochaei* Puttemans, Revista Politéchnica São Paulo 11: 272, 1906.

= *Uredo myrciae* Mayor, in Fuhrmann & Mayor, Mém. Soc. Sci. Nat. Neuchâtel **5**: 590, 1914.
= *Puccinia cambucae* Puttemans, in Rangel, Arq. Mus. Nac. Rio de Janeiro **18**(7-9): 153, 1916.
= *Puccinia brittoi* Rangel, Arq. Mus. Nac. Rio de Janeiro **18**(7-9): 154, 1916.
= *Puccinia barbacensis* Rangel, Arq. Mus. Nac. Rio de Janeiro **18**(7-9): 154, 1916.
= *Puccinia eugeniae* Rangel, Arq. Mus. Nac. Rio de Janeiro **18**(7-9): 154, 1916.
= *Puccinia grumixamae* Rangel, Arch. Jard. Bot. Rio de Janeiro **2**: 69, 1918.
= *Puccinia jambolana* Rangel, in Avena-Saccá, Bol. Agric. (São Paulo) **21**: 37, 1920.
= *Puccinia camargoi* Puttemans, Bol. Mus. Nac. Rio de Janeiro **6**: 314, 1930.
= *Puccinia actinostemonis* H.S. Jacks. & Holw., in Jackson, Mycologia **23**: 466, 1931.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3126 (fig. 47). Lectotype – BR-MYC 80409,93; epitype – VIC 42496 (designated by Machado et al., 2015). The nomenclature and synonymy of *P. psidii* were treated in detail by Simpson et al. (2006). Hennen & Figueiredo (1981) examined type material of *Puccinia actinostemonis*, which had been introduced for a rust fungus on "*Actinostemon* sp.", and pointed out that the type host represents an unidentified host belonging to *Myrtaceae*. Beenken (2017) studied the phylogeny of this rust and introduced the new genus *Austropuccinia* for it. He maintained *Puccinia psidii* as type species and failed to discuss the synonymy and nomenclature of this rust species. *Caeoma eugeniarum* Link is the oldest valid name for this fungus and would be available in *Puccinia* as well as *Austropuccinia*. Type material of Link's species is preserved. However, *Puccinia psidii* is the causative agent of an economically important plant disease, which has been used in the phytopathological literature for a long time. There is a large number of publications that are dealing with this disease. Therefore, it is reasonable to maintain the epithet "*psidii*". However. a proposal to conserve the name *P. psidii* is necessary.



Rabenhorst-Winter, Fungi europaei.

3126. Puccinia Psidii Winter

nova species.

II. Uredo: Acervuli plerumque in maculis rotundatis seu irregularibus, fuscis, nigro cinctis, ca. 3—5 Mill. latis, saepe confluentibus, amphigeni, gregarii, rarius supra foliorum totam faciem sparsi, minuti, erumpentes, demum denudati et ab epidermide fissa circumdati, pallidi. Sporae subglobosae ovataeve, membrana tenui, densiuscule tenuissimeque echinulata, hyalina praeditae, aurantiacae, ca. 19 μ diam. vel usque 23 μ longae, 16 μ crassae.

III. Puccinia: Acervuli teleutosporarum cum iis Uredinis mixti, minutissimi, punctiformes, gregarii. Sporae ovato-oblongae, medio parum constrictae, vertice non incrassatae, episporio tenui, laevi, pallidissime luteolo praeditae, pedicello non persistente, hyalino suffultae, 31—33 μ longae, 18 μ crassae.

Brasilia: Prope Saõ Francisco, Prov. St. Catharina, in Psidii pomiferi foliis vivis.

April 1884. leg. E. Ule.

Observ.: Die meisten Exemplare zeigen leider nur die Uredoform und auch diese oft besetzt mit Darluca. Vielleicht gelingt es, die Puccinia später noch reichlicher nachzuliefern. W.

Fig. 47

Uredo cannae G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 32: no. 3129, 1884 [Hedwigia **23**(11): 172, 1884].
≡ ***Puccinia cannae*** (G. Winter) Henn., Hedwigia **41**: 105, 1902.
≡ *Dicaeoma cannae* (G. Winter) Arthur, N. Amer. Fl. **7**(5): 380, 1920.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3129 (fig. 48).

Rabenhorst-Winter, Fungi europaei.

3129. Uredo Cannae Winter

nova spec.

Acervuli plerumque hypophylli, rarius etiam epiphylli, sine maculis supra totam folii superficiem dense sparsi seu hic inde gregarii, minuti, rotundati s. elliptici, interdum confluentes, vix ½ Mill. metientes, pallide lutei, longe, ab epidermide velati, demum erumpentes. Sporae ovatae, pyriformes oblongaeve, achroae (an semper?), echinulatae, 25—35 μ longae, 16—23 μ crassae.

Brasilia: prope Saõ Francisco, Prov. St. Catharina, in foliis vivis Cannae.

März 1884. leg. E. Ule.

Fig. 48

Venturia aggregata G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 32: no. 3144, 1884 [Hedwigia **23**(11): 172, 1884].

≡ ***Antennularia aggregata*** (G. Winter) Höhn., Ann. Mycol. **17**: 124, 1919.

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3144 (fig. 49).

Rabenhorst-Winter, Fungi europaei.

3144. Venturia aggregata Winter

nov. spec.

Perithecia amphigena, superficialia, 2—20 (rarius plura) densissime aggregata, stromatis minuti, rotundati, verrucaeformi, extus atri, intus cinnabarini superficie insidentia, depresse globosa, demum cupulaeformia, parcissime setulosa, ostiolo vix conspicuo perforata, atra. Asci copiosi, clavati, longe pedicellati, apicem versus parum attenuati, 8-spori, paraphysibus filiformibus, numerosis obvallati, 60—80 μ longi, 19—21 μ crassi. Sporae inordinate subdistichae, elliptico-oblongae, plerumque inaequilaterales, medio uniseptatae et parum constrictae, demum pallidissime fuscidulae, 16—17 μ longae, 8—9 μ crassae.

Brasilia: prope Saõ Francisco, Prov. St. Catharina, December 1883. leg. E. Ule.

Fig. 49

Hysterium acerinum (Westend.) G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 32: no. 3162, 1884.

≡ *Hysterographium acerinum* Westend., Bull. Acad. R. Sci. Belg., Cl. Sci., Sér. 2, **7**(5): 87, 1859.

≡ *Hysterium pulicare* var. *acerinum* (Westend.) Sacc., Syll. fung. **2**: 744, 1883.

= ***Hysterium pulicare*** Pers., Neues Mag. Bot. **1**: 85, 1794.

[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=162287; https://www.nahuby.sk/atlas-hub/Hysterium-pulicare/skarovec/skulinatec/ID12988.]

Notes: This is a new combination validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3162 (fig. 50).

Rabenhorst-Winter, Fungi europaei.

3162. Hysterium acerinum (Westd.)

Hysterographium acerinum Westd., Exsicc. Nr. 927.

Hysterium pulicare var. Sacc., Sylloge II. p. 744.

Belgia: prope Courtrai, ad corticem Aceris.

Reliquiae Westendorpianae com. E. Marchal.

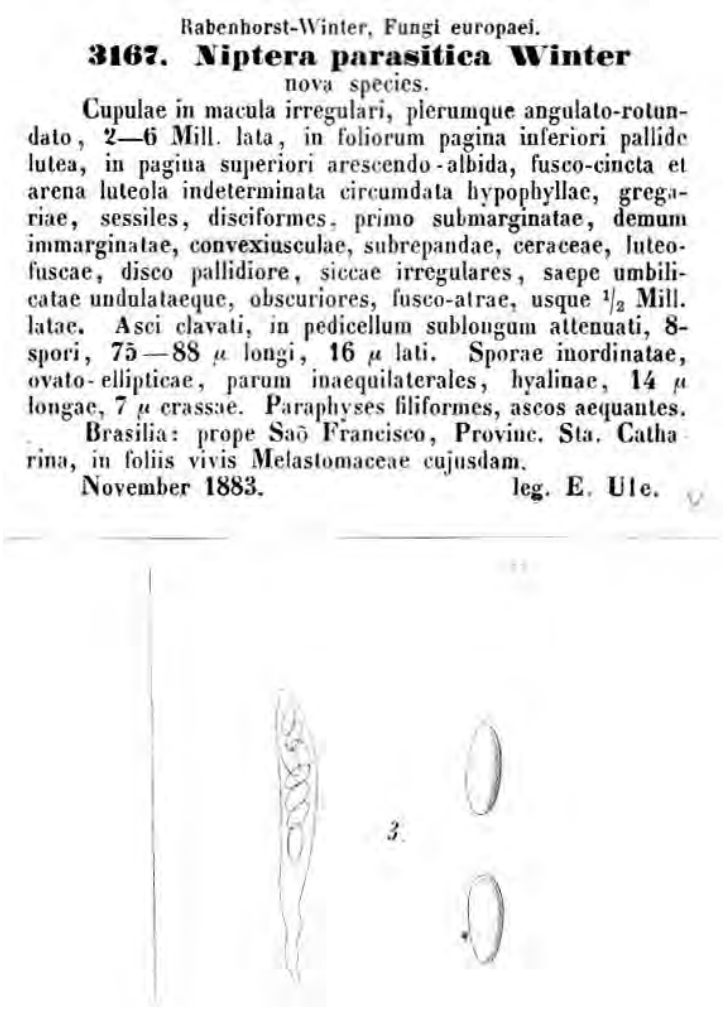
Fig. 50

Niptera parasitica G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 32: no. 3167, 1884 [Hedwigia **23**(11): 173, 1884].

≡ *Mollisia parasitica* (G. Winter) Sacc., Syll. fung. **8**: 329, 1889.

≡ *Dermatea parasitica* (G. Winter) Höhn., Sitzungsber. Kaiserl. Akad. Wiss. Wien, Math.-Naturw. Cl., Abt. 1, **118**: 1524, 1909.

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3167 (fig. 51).



Rabenhorst-Winter, Fungi europaei.

3167. Niptera parasitica Winter

nova species.

Cupulae in macula irregulari, plerumque angulato-rotundato, 2—6 Mill. lata, in foliorum pagina inferiori pallide lutea, in pagina superiori arescendo-albida, fusco-cincta et arena luteola indeterminata circumdata hypophyllae, gregariae, sessiles, disciformes, primo submarginatae, demum immarginatae, convexiusculae, subrepandae, ceraceae, luteofuscae, disco pallidiore, siccae irregulares, saepe umbilicatae undulataeque, obscuriores, fusco-atrae, usque ½ Mill. latae. Asci clavati, in pedicellum sublongum attenuati, 8-spori, 75—88 μ longi, 16 μ lati. Sporae inordinatae, ovato-ellipticae, parum inaequilaterales, hyalinae, 14 μ longae, 7 μ crassae. Paraphyses filiformes, ascos aequantes.

Brasilia: prope São Francisco, Provinc. Sta. Catharina, in foliis vivis Melastomaceae cujusdam.

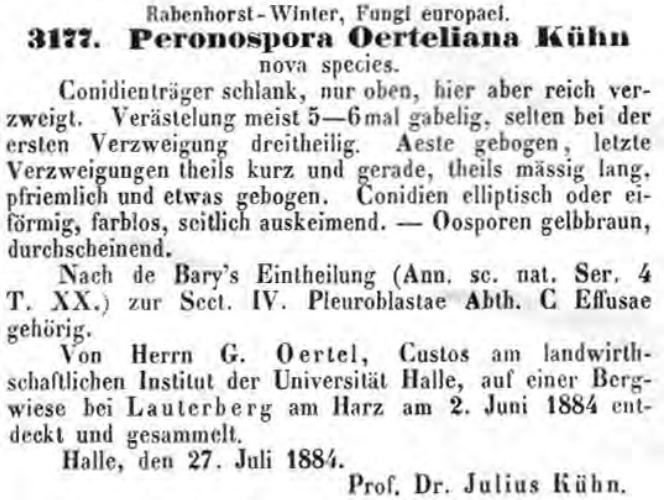
November 1883. leg. E. Ule.

3.

Fig. 51

Peronospora oerteliana J.G. Kühn, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 32: no. 3177, 1884 [Hedwigia **23**(11): 173, 1884 and Deutsche Bot. Monatsschr. **2**: 158, 1884].

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3177 (fig. 52). *Primula veris* is the type host of *P. oerteliana*, see Constantinescu (1991: 66).



Rabenhorst-Winter, Fungi europaei.

3177. Peronospora Oerteliana Kühn

nova species.

Conidienträger schlank, nur oben, hier aber reich verzweigt. Verästelung meist 5—6mal gabelig, selten bei der ersten Verzweigung dreitheilig. Aeste gebogen, letzte Verzweigungen theils kurz und gerade, theils mässig lang, pfriemlich und etwas gebogen. Conidien elliptisch oder eiförmig, farblos, seitlich auskeimend. — Oosporen gelbbraun, durchscheinend.

Nach de Bary's Eintheilung (Ann. sc. nat. Ser. 4 T. XX.) zur Sect. IV. Pleuroblastae Abth. C Effusae gehörig.

Von Herrn G. Oertel, Custos am landwirthschaftlichen Institut der Universität Halle, auf einer Bergwiese bei Lauterberg am Harz am 2. Juni 1884 entdeckt und gesammelt.

Halle, den 27. Juli 1884.

Prof. Dr. Julius Kühn.

Fig. 52

Cylindrosporium inconspicuum G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 32: no. 3178, 1884 [Hedwigia **23**(11): 174, 1884].
≡ *Cercosporella inconspicua* (G. Winter) Höhn., Ann. Mycol. **1**(5): 413, 1903.
≡ ***Pseudocercosporella inconspicua*** (G. Winter) U. Braun, Nova Hedwigia **47**(3-4): 343, 1988.
= *Cercosporella hungarica* Bäumler, Verh. Zool.-Bot. Ges. Wien **38**: 717, 1888.
≡ *Pseudocercosporella hungarica* (Bäumler) Sivan., Bitunicate Ascomycetes and their Anamorphs: 202, 1984.
= *Cercospora liliicola* Richon, Cat. Champ. Marn.: no. 2032, 1889.
≡ *Cercosporella liliicola* (Richon) Sacc., Syll. fung. **10**: 566, 1892.
= *Cylindrosporium inconspicuum* subsp. *candidum* Sacc. & Fautrey, in Saccardo & Sydow, Syll. fung. **16**: 1019, 1902.
= *Cercosporella lilii* Dearn., Mycologia **21**(6): 327, 1929.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3178 (fig. 53). Description, nomenclature and taxonomy, see Braun (1995: 174).

Rabenhorst-Winter, Fungi europaei.
3178. Cylindrosporium inconspicuum Winter
nova species.
Acervuli nulli. Sporae in maculis irregularibus, usque 20 Millim. longis, saepe confluentibus, totum fere folium occupantibus, pallide fuscis, exaridis, demum centro pallidioribus amphigenae, filiformi-cylindraceae, utrinque attenuatae, 3—5 septatae, interdum curvatae, hyalinae, 70—100 μ longae, 3,5 μ crassae.
Helvetia: prope Zürich, ad folia viva Lilii Martagonis. Juli 1883. leg. G. Winter.

Fig. 53

Periconia velutina G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 32: no. 3181, 1884 [Hedwigia **23**(11): 174, 1884].
≡ *Periconiella velutina* (G. Winter) Sacc., in Saccardo & Berlese, Atti Reale Ist. Veneto Sci. Lett. Arti, Sér. 6, **3**: 727, 1885.
≡ ***Zasmidium velutinum*** (G. Winter) Videira & Crous, in Videira et al., Stud. Mycol. **87**: 364, 2017.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3181 (fig. 54).

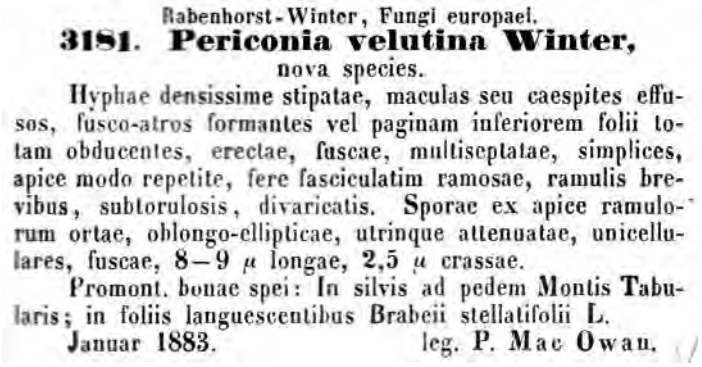

Rabenhorst-Winter, Fungi europaei.
3181. Periconia velutina Winter,
nova species.
Hyphae densissime stipatae, maculas seu caespites effusos, fusco-atros formantes vel paginam inferiorem folii totam obducentes, erectae, fuscae, multiseptatae, simplices, apice modo repetite, fere fasciculatim ramosae, ramulis brevibus, subtorulosis, divaricatis. Sporae ex apice ramulorum ortae, oblongo-ellipticae, utrinque attenuatae, unicellulares, fuscae, 8—9 μ longae, 2,5 μ crassae.
Promont. bonae spei: In silvis ad pedem Montis Tabularis; in foliis languescentibus Brabeii stellatifolii L.
Januar 1883. leg. P. Mac Owan.

Fig. 54

Coniothyrium atriplicinum G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 32: no. 3192, 1884 [Hedwigia **23**(11): 174, 1884].
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3192 (fig. 55).

Rabenhorst-Winter, Fungi europaei.

3192. Coniothyrium atriplicinum Winter,

nova species.

Perithecia sparsa, amphigena, immersa, depresso-globosa, ostiolo papillaeformi errumpentia, demum umbilicata, atra, membranacea, glabra, 115—175 μ diam. Sporae ellipticae s. ovato-ellipticae, utrinque late rotundatae, continuae, pallidissime fuscidulae, 7—8 μ longae, 4—5 μ crassae.

Australia: Murray-River, in calyce Atriplicis nummularii. leg. Ferd. von Müller.

Fig. 55

Septoria submaculata G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 32: no. 3193, 1884 [Hedwigia **23**(11): 174, 1884].
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3193 (fig. 56).

Rabenhorst-Winter, Fungi europaei.

3193. Septoria submaculata Winter,

nova species.

Maculae in pagina foliorum superiore dense sparsae, saepe confluentes, minutae ($^1/_4$—$^1/_2$ Mill. latae), griseae, fusco-purpureo late cinctae, angulato-rotundatae s. irregulares. In pagina inferiore foliorum maculae subnullae vel obscuriores, sed hic perithecia, in quaque macula solitaria vel pauca, globosa, prominula, pallida, tenuissime membranacea, ca. 150 μ diam. Sporae cylindricae, utrinque rotundatae, rectae vel flexuosae, medio uniseptatae, hyalinae, 30—37 μ longae, 3,5 μ crassae.

America borealis: prope Perryville, Missouri, ad Fraxini americani folia viva.

Aestate 1884. leg. C. H. Demetrio.

Fig. 56

Sphaeronaema persicae (Schwein.) G. Winter [as "*Sphaeronema*"], Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 32: no. 3198, 1884, nom. illeg. (Art. 53.1), non (Schwein.) Ellis, 1878 (based on *Cytospora persicae* Schwein.).
≡ *Periconia persicae* Schwein., Schriften Naturf. Ges. Leipzig **1**: 125, 1822.
≡ *Pseudographium persicae* (Schwein.) Jacz., Nouv. Mem. Soc. Imp. Nat. Moscou **15**(20): 370, 1898.
≡ ***Morrisographium persicae*** (Schwein.) Illman & G.P. White, Mycotaxon **19**: 147, 1984.
[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=107035; https://www.mycobank.org/MB/107035.]
Notes: This is a new combination published on the label of Winter, Fungi Eur. Extraeur. Exs. 3198 (fig. 57), but this name is illegitimate. Verkley (2002) discussed the intricate taxonomy, nomenclature and synonymy of the genus name *Pseudographium* Jacz., including Höhnel's (1915) misleading "lectotypification", and reduced this name to synonymy with *Pseudographium* Sacc.

Rabenhorst-Winter, Fungi europaei.

3198. Sphaeronema Persicae (Schwein.)

Periconia Persicae Schwein., Synops. Fung. Carol. p. 125 Nr. 1290.

America borealis: prope Amanda, Ohio, ad Persicae vulgaris ramulos.

Juni 1883. leg. W. A. Kellermann.

Fig. 57

Cent. 33

[Notes: Descriptions and diagnoses published in Cent. 33 were repeated in Hedwigia 24(6): 252–259, [Nov./Dec.] 1885.]

Puccinia macowanii G. Winter [as "*Mac Owani*"], Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 33: no. 3211, 1885 [Hedwigia **24**(6): 255, 1885].

≡ *Dicaeoma macowanii* (G. Winter) Kuntze [as "*macowani*"], Revis. gen. pl. **3**(3): 469, 1898.

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3211 (fig. 58).

Rabenhorst-Winter, Fungi europaei.

3211. Puccinia Mac Owani Winter

nova spec.

I. Aecidium = Accidium truncatum Ralchbr. in litt.

Pseudoperidia in maculis pallide luteolis, in pagina foliorum superiore fuscis, late luteo cinctis, indeterminatis, rotundatis irregularibusve, saepe confluentibus, magnitudine varia, hypophylla, solitaria vel 2 usque circ. 10 laxe gregaria vel caespitosa, albida, longe tubulosa, 1—2 Mill. alta, primitus ore clausa, demum aperta, margine erecto, parce et irregulariter, sed subprofunde inciso, laciniis interdum revolutis. Cellulae pseudoperidii densissime minuteque verruculosae. Sporae angulato-rotundatae, verruculis subvalidis, obtusis obsitae, hyalinae (ac semper?), 23—32 μ diam.

Promont. bonae spei: In monte Boschberg prope Somerset-East, in foliis vivis Helichrysi petiolati DC.

Julio 1877. leg. P. Mac Owan.

Observ.: Es ist nach der Diagnose wenigstens sehr wahrscheinlich, dass vorliegendes Aecidium mit Caeoma (Aecidium) Gnaphaliatum Schweinitz, Synops. Fungor. Americ. boreal. Nr. 2873, identisch ist. Dagegen stimmen die Teleutosporen (siehe folgende Nummer) nicht mit Puccinia investita Schwein. (l. c. Nr. 2932) überein. G. W.

Fig. 58

Aecidium splendens G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 33: no. 3224, 1885 [Hedwigia **24**(6): 256, 1885], nom. inval. (Art. 36.1).

≡ *Aecidium splendens* G. Winter ex Sacc., Syll. fung. **7**: 784, 1888.

= ***Puccinia crotonopsidis*** (Burrill) Demers, Mycologia **109**(1): 13, 2017.

Notes: This is an invalid species name published on the label of Winter, Fungi Eur. Extraeur. Exs. 3224 (fig. 59). Synonymy, see Demers et al. (2017).

Rabenhorst-Winter, Fungi europaei.

3224. Aecidium splendens Winter

nova spec. ad interim!

Acervuli hypophylli, rotundati vel parum irregulares, minuti, 1—2 ½ Mill. lati, in macula indeterminata, luteola, in pagina foliorum superiori intensius colorata solitaria sparsave. Pseudoperidia dense stipata, breve cylindrica, albida, margine erecto, fimbriato-crenulato; cellulae pseudoperidii valde verrucosae, protoplasmate aurantiaco impletae, 20—35 μ Diam. Sporae rotundato-polygoniae, minutissime granulatae, aurantiacae, 20—28 μ longae, 14—19 μ latae.

America borealis: Prope Perryville, Missouri. In cotyledonibus vivis Crotonis monanthogyni Mx.

15. Mai 1885. leg. C. H. Demetrio.

Observ.: Diese Art ist wahrscheinlich identisch mit Aecidium Crotonopsidis Burrill in Botanical Gazette 1884 pag. 190; doch wird dort die Sporenfarbe nicht angegeben, auch sind die Sporen etwas kleiner (15—18 μ lang, 12—15 μ breit), als bei vorliegender Art. — Sehr ähnlich ist auch, der Beschreibung nach, Aecidium Tragiae Cooke in Grevillea X. pag. 125, doch ist die Diagnose zu unvollständig. Auch Aecidium detritum Thümen in Mycoth. univ. Nr. 1324 stimmt im Wesentlichen mit unserer Art überein; doch sollen bei dieser die Sporen farblos sein, was bei den ausgegebenen Exemplaren auch der Fall ist, was aber auch eine Folge des Alters sein kann. G. W.

Fig. 59

Caeoma nitens (Schwein.) G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 33: no. 3225, 1885 [Hedwigia **24**(6): 253, 1885].
≡ *Aecidium nitens* Schwein., Schriften Naturf. Ges. Leipzig **1**: 69, 1822.
≡ ***Gymnoconia nitens*** (Schwein.) F. Kern & Thurst., Bull. Penn. State Coll. **239**: 16, 1929.
[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=314774; https://www.mycobank.org/MB/314774.]
Notes: This is a new combination validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3225 (fig. 60).

Rabenhorst-Winter, Fungi europaei.

3225. Caeoma nitens (Schweinitz).

Synon.: Aecidium nitens Schw., Synops. Fung. Carol. pag. 69. Nr. 458.
Caeoma luminatum Schw., Synops. Fung. Americ. boreal. p. 293.

a. America borealis: Prope Pine Hills, Union Co., Illinois. Ad folia viva Rubi villosi.
24. April 1882. leg. A. B. Seymour.

b. America borealis: Prope Amanda, Ohio. In foliis vivis Rubi villosi. Forma spermogoniifera!
leg. W. A. Kellermann.

c. Fennia: Prope Helsingfors. Ad Rubi saxatilis folia viva.
9. Juni 1885. leg. O. Kihlman.

Observ.: Die unter c. ausgegebenen Exemplare wurden unter dem Namen: Phragmidium Rubi (Pers.) Aecidium, eingesandt. Ich habe, wie ich auch in meinem Werke: Die Pilze Deutschl. etc. I. pag. 230 bemerke, das Aecidium von Phragmidium Rubi noch nicht lebend gesehen und kenne keine ganz zweifellosen Exemplare desselben. So viel scheint mir aber sicher, dass der finnische Pilz mit dem nordamericanischen Caeoma nitens identisch ist. G. W.

Fig. 60

Corticium alneum (Fr.) P. Karst., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 33: no. 3231, 1885 [Hedwigia **24**(6): 253, 1885].
≡ *Thelephora alnea* Fr., Syst. mycol. **1**: 446, 1821.
≡ ***Phanerochaete alnea*** (Fr.) P. Karst., Bidr. Känn. Finl. Nat. Folk **48**: 427, 1889.
[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=431888; https://www.mycobank.org/MB/431888.]
Notes: This is a new combination validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3231 (fig. 61).

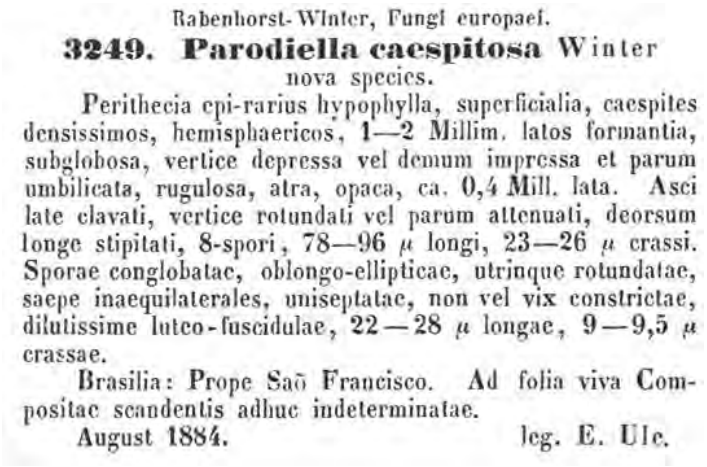
Rabenhorst-Winter, Fungi europaei.

3231. Corticium alneum (Fries) Karsten.

Synon.: Stereum alneum Fries, Epicris. pag. 553.
Fennia: Prope Mustiala, ad lignum corticemque Alni, Betulae et Populi tremulae.
Autumno. leg. P. A. Karsten.

Fig. 61

Parodiella caespitosa G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 33: no. 3249, 1885 [Hedwigia **24**(6): 256, 1885].
≡ *Winteromyces caespitosus* (G. Winter) Speg., Anales Mus. Nac. Hist. Nat. Buenos Aires **23**: 37, 1912.
≡ ***Gibbera caespitosa*** (G. Winter) Arx, in Müller & von Arx, Beitr. Kryptfl. Schweiz **11**(2): 424, 1962.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3249 (fig. 62).



Rabenhorst-Winter, Fungi europaei.

3249. Parodiella caespitosa Winter

nova species.

Perithecia epi-rarius hypophylla, superficialia, caespites densissimos, hemisphaericos, 1—2 Millim. latos formantia, subglobosa, vertice depressa vel demum impressa et parum umbilicata, rugulosa, atra, opaca, ca. 0,4 Mill. lata. Asci late clavati, vertice rotundati vel parum attenuati, deorsum longe stipitati, 8-spori, 78—96 μ longi, 23—26 μ crassi. Sporae conglobatae, oblongo-ellipticae, utrinque rotundatae, saepe inaequilaterales, uniseptatae, non vel vix constrictae, dilutissime luteo-fuscidulae, 22—28 μ longae, 9—9,5 μ crassae.

Brasilia: Prope Saõ Francisco. Ad folia viva Compositae scandentis adhuc indeterminatae.

August 1884. leg. E. Ule.

Fig. 62

Parodiella melioides (Fr.) G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 33: no. 3250, 1885

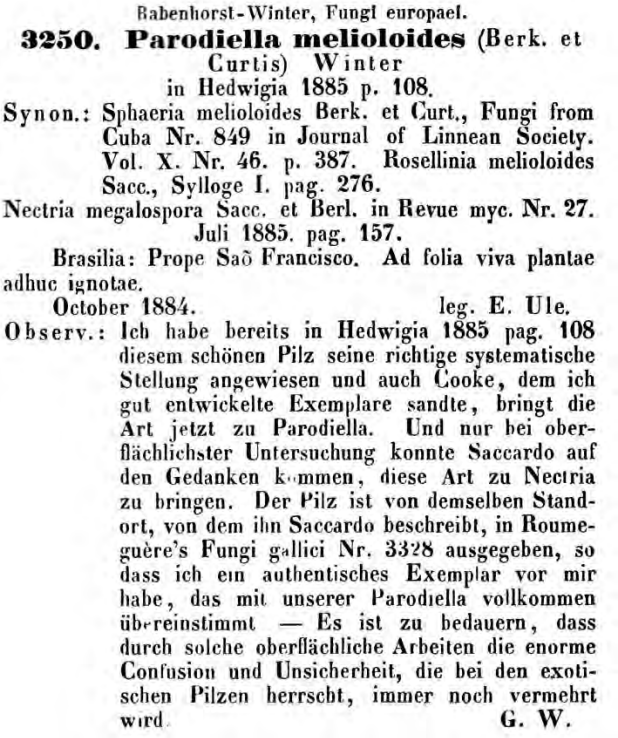
≡ *Sphaeria melioides* Berk. & M.A. Curtis, in Berkeley, J. Linn. Soc., Bot. 10(46): 387, [1868] 1869.

≡ *Parodiella melioloides* (Berk. & M.A. Curtis) G. Winter, Hedwigia **24**(6): 257, 1885, comb. inval. (Art. 35.2).

≡ ***Perisporiopsis melioloides*** (Berk. & M.A. Curtis) Arx, in Müller & von Arx, Beitr. Kryptfl. Schweiz 11(2): 171, 1962.

[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=335884; https://www.mycobank.org/MB/335884.]

Notes: This is a new combination validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3250 (fig. 63).



Rabenhorst-Winter, Fungi europaei.

3250. Parodiella melioloides (Berk. et Curtis) Winter

in Hedwigia 1885 p. 108.

Synon.: Sphaeria melioloides Berk. et Curt., Fungi from Cuba Nr. 849 in Journal of Linnean Society. Vol. X. Nr. 46. p. 387. Rosellinia melioloides Sacc., Sylloge I. pag. 276.

Nectria megalospora Sacc. et Berl. in Revue myc. Nr. 27. Juli 1885. pag. 157.

Brasilia: Prope Saõ Francisco. Ad folia viva plantae adhuc ignotae.

October 1884. leg. E. Ule.

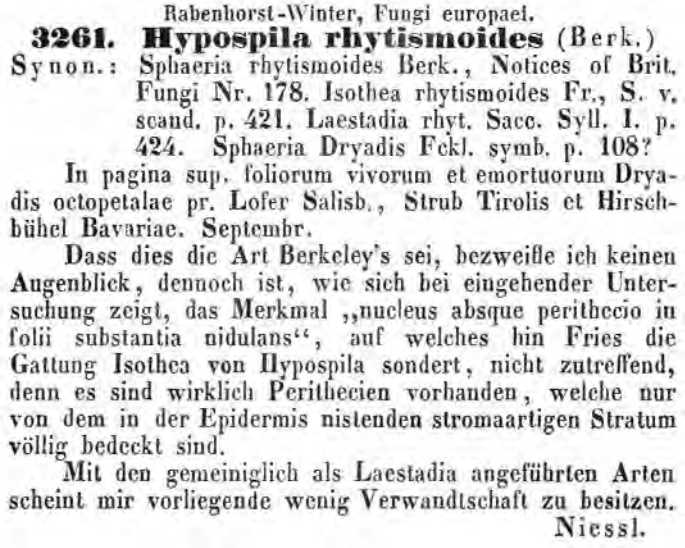
Observ.: Ich habe bereits in Hedwigia 1885 pag. 108 diesem schönen Pilz seine richtige systematische Stellung angewiesen und auch Cooke, dem ich gut entwickelte Exemplare sandte, bringt die Art jetzt zu Parodiella. Und nur bei oberflächlichster Untersuchung konnte Saccardo auf den Gedanken kommen, diese Art zu Nectria zu bringen. Der Pilz ist von demselben Standort, von dem ihn Saccardo beschreibt, in Roumeguère's Fungi gallici Nr. 3328 ausgegeben, so dass ich ein authentisches Exemplar vor mir habe, das mit unserer Parodiella vollkommen übereinstimmt — Es ist zu bedauern, dass durch solche oberflächliche Arbeiten die enorme Confusion und Unsicherheit, die bei den exotischen Pilzen herrscht, immer noch vermehrt wird. G. W.

Fig. 63

Hypospila rhytismoides (Fr.) Niessl, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 33: no. 3261, 1885 [Hedwigia **24**(6): 253, 1885].

≡ *Sphaeria rhytismoides* Bab., in Berk., Ann. Mag. Nat. Hist. **6**: 361, 1841, nom. illeg. (Art. 53.1), non Corda, 1840.

≡ ***Isothea rhytismoides*** Fr. [as "(Berk.) Fr."], Summa veg. Scand. 2: 421, 1849.
[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=154060; https://www.mycobank.org/MB/154060.]
Notes: This is a new combination validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3261 (fig. 64). Taxonomy and description, see Cannon (1996).



Rabenhorst-Winter, Fungi europaei.

3261. Hypospila rhytismoides (Berk.)

Synon.: Sphaeria rhytismoides Berk., Notices of Brit. Fungi Nr. 178. Isothea rhytismoides Fr., S. v. scand. p. 421. Laestadia rhyt. Sacc. Syll. I. p. 424. Sphaeria Dryadis Fckl. symb. p. 108?

In pagina sup. foliorum vivorum et emortuorum Dryadis octopetalae pr. Lofer Salisb., Strub Tirolis et Hirschbühel Bavariae. Septembr.

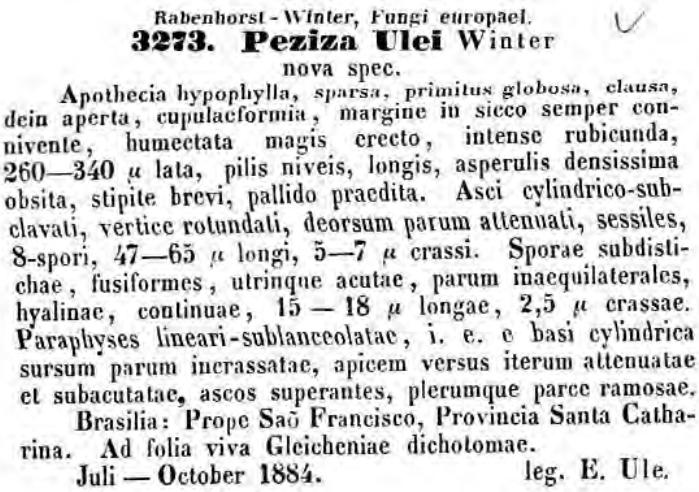
Dass dies die Art Berkeley's sei, bezweifle ich keinen Augenblick, dennoch ist, wie sich bei eingehender Untersuchung zeigt, das Merkmal „nucleus absque perithecio in folii substantia nidulans", auf welches hin Fries die Gattung Isothea von Hypospila sondert, nicht zutreffend, denn es sind wirklich Perithecien vorhanden, welche nur von dem in der Epidermis nistenden stromaartigen Stratum völlig bedeckt sind.

Mit den gemeiniglich als Laestadia angeführten Arten scheint mir vorliegende wenig Verwandtschaft zu besitzen.

Niessl.

Fig. 64

Peziza ulei G. Winter, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 33: no. 3273, 1885 [Hedwigia **24**(6): 258, 1885].
≡ *Dasyscyphus ulei* (G. Winter) Sacc. [as "*Dasyscypha*"], Syll. fung. **8**: 452, 1889.
≡ *Atractobolus ulei* (G. Winter) Kuntze, Revis. gen. pl. **3**(3): 446, 1898.
≡ ***Lachnum ulei*** (G. Winter) S.A. Cantrell & J.H. Haines, Mycol. Res. **101**(9): 1081, 1997.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3273 (fig. 65).



Rabenhorst-Winter, Fungi europaei.

3273. Peziza Ulei Winter

nova spec.

Apothecia hypophylla, sparsa, primitus globosa, clausa, dein aperta, cupulaeformia, margine in sicco semper connivente, humectata magis erecto, intense rubicunda, 260—340 μ lata, pilis niveis, longis, asperulis densissima obsita, stipite brevi, pallido praedita. Asci cylindrico-subclavati, vertice rotundati, deorsum parum attenuati, sessiles, 8-spori, 47—65 μ longi, 5—7 μ crassi. Sporae subdistichae, fusiformes, utrinque acutae, parum inaequilaterales, hyalinae, continuae, 15 — 18 μ longae, 2,5 μ crassae. Paraphyses lineari-sublanceolatae, i. e. e basi cylindrica sursum parum incrassatae, apicem versus iterum attenuatae et subacutatae, ascos superantes, plerumque parce ramosae.

Brasilia: Prope Saõ Francisco, Provincia Santa Catharina. Ad folia viva Gleicheniae dichotomae.

Juli — October 1884. leg. E. Ule.

Fig. 65

Fusisporium rubi G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 33: no. 3280, 1885 [Hedwigia **24**(6): 258, 1885].
≡ *Ramularia rubi* (G. Winter) Wollenw., Fusaria Autogr. Delin. **1**: no. 470, 1916.
≡ *Cercosporella rubi* (G. Winter) Plakidas, J. Agric. Res., Washington **54**: 283, 1937.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3280 (fig. 66). The affinity and taxonomic status of this species is still unclear (see Braun 1995: 114). The duplicate of Winter, Fungi Eur. Extraeur. Exs. 3280, deposited at HAL, was designated as lectotype by Braun (1995: 114).

Rabenhorst-Winter, Fungi europaei.

3280. Fusisporium (?) Rubi Winter nova spec.

Hyphae densissime stipatae, partes florales, praecipue filamenta obducentes, erectae, breves, plerumque simplices, rarius parcissime ramulosae, hyalinae. Sporae fusiformes, utrinque acutae, saepe parum curvatae seu inaequilaterales, 1—3-septatae, ad septa non constrictae, hyalinae, 14—30 μ longae, 3—3,5 μ crassae.

America borealis: Prope Cobden, Illinois, ad Ruborum cultorum flores.

Vere 1882. leg. F. S. Earle.

Fig. 66

Cercospora missouriensis G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 33: no. 3292, 1885 [Hedwigia **24**(6): 258, 1885], nom. illeg. (Art. 52.1).

≡ *Cercospora pulvinulata* Sacc. & G. Winter, in Saccardo, Miscell. mycol. **2**: 18, 1885.

≡ ***Pseudocercospora pulvinulata*** (Sacc. & G. Winter) U. Braun, in Braun & Mel'nik, Trudy Bot. Inst. im. V.L. Komarova **20**: 84, 1997.

Notes: This is an superfluous name published on the label of Winter, Fungi Eur. Extraeur. Exs. 3280 (fig. 67). It was introduced by Winter due to the similarity with the older name *Cercospora pulvinula* Cooke & Ellis. However, the two names are not confusable (see discussion in Crous & Braun 2003: 342).

Rabenhorst-Winter, Fungi europaei.

3292. Cercospora missouriensis Winter.

Synon.: Cercospora pulvinulata Sacc., Miscellanea mycol. Series II. pag. 18.

America borealis: Prope Perryville, Missouri. In foliis vivis rubrae.

Aestate 1883. leg. C. H. Demetrio.

Observ.: Nach der Beschreibung kann diese Art nicht identisch sein mit Cercospora moricola Cke., Grevillea XII. p. 30. Mein Exemplar dieser Species in Ravenel, Fungi americ. Nr. 387 ist leider unbrauchbar. — Der von Saccardo gegebene Name kann nicht beibehalten werden, da es eine Cercospora pulvinula Cooke et Ellis giebt. G. W.

Fig. 67

Cephalosporium tumefaciens G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 33: no. 3295, 1885 [Hedwigia **24**(6): 259, 1885].

≡ ***Botryoconis tumefaciens*** (G. Winter) Syd. & P. Syd., Ann. Mycol. **16**(3/6): 248, 1919.

≡ *Drepanoconis tumefaciens* (G. Winter) Viégas, Bragantia **6**: 371, 1946.

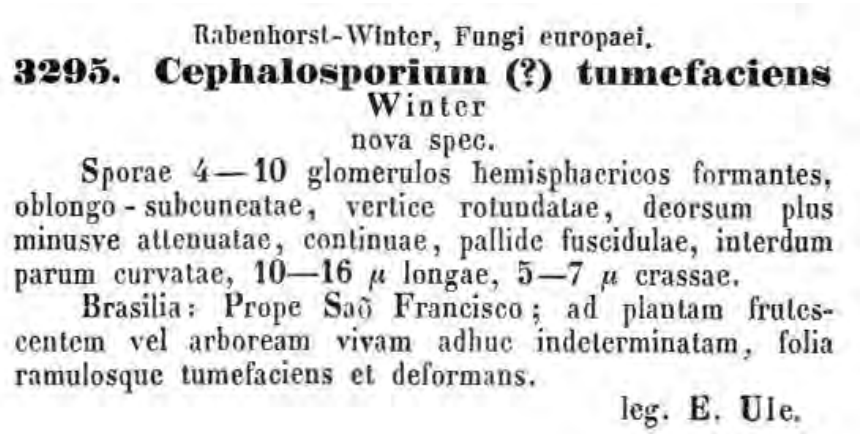
≡ *Hyalopus tumefaciens* (G. Winter) Maia, Publicações Inst. Micol. Recife **267**: 18, 1960.

= *Botryoconis saccardoi* Syd. & P. Syd., Ann. Mycol. **4**(4): 344, 1906.

= *Botryoconis pallida* Syd. & P. Syd., Ann. Mycol. **5**(4): 340, 1907.

= *Cryptobasidium ocoteae* Lendn., Bull. Soc. Bot. Genève, 2 Sér., **12**: 125, 1921.

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3295 (fig. 68). Description, synonymy and taxonomy, see Hendrichs et al. (2003).



Rabenhorst-Winter, Fungi europaei.

3295. Cephalosporium (?) tumefaciens Winter

nova spec.

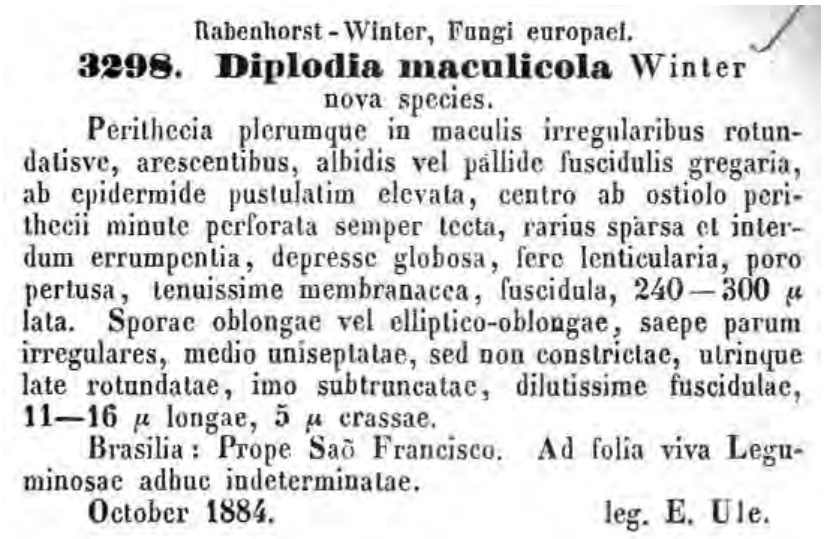
Sporae 4—10 glomerulos hemisphaericos formantes, oblongo-subcuneatae, vertice rotundatae, deorsum plus minusve attenuatae, continuae, pallide fuscidulae, interdum parum curvatae, 10—16 μ longae, 5—7 μ crassae.

Brasilia: Prope Saõ Francisco; ad plantam frutescentem vel arboream vivam adhuc indeterminatam, folia ramulosque tumefaciens et deformans.

leg. E. Ule.

Fig. 68

Diplodia maculicola G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 33: no. 3298, 1885 [Hedwigia **24**(6): 259, 1885].
≡ *Ascochytella maculicola* (G. Winter) Tassi, Bull. Lab. Orto Bot. Reale Univ. Siena **5**: 27, 1902.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3298 (fig. 69).



Rabenhorst-Winter, Fungi europaei.

3298. Diplodia maculicola Winter

nova species.

Perithecia plerumque in maculis irregularibus rotundatisve, arescentibus, albidis vel pallide fuscidulis gregaria, ab epidermide pustulatim elevata, centro ab ostiolo perithecii minute perforata semper tecta, rarius sparsa et interdum errumpentia, depresse globosa, fere lenticularia, poro pertusa, tenuissime membranacea, fuscidula, 240—300 μ lata. Sporae oblongae vel elliptico-oblongae, saepe parum irregulares, medio uniseptatae, sed non constrictae, utrinque late rotundatae, imo subtruncatae, dilutissime fuscidulae, 11—16 μ longae, 5 μ crassae.

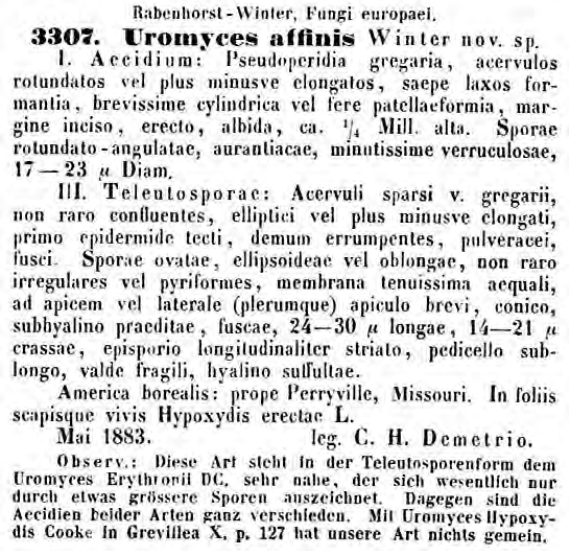
Brasilia: Prope Saõ Francisco. Ad folia viva Leguminosae adhuc indeterminatae.

October 1884. leg. E. Ule.

Fig. 69

Cent. 34
[Notes: Descriptions and diagnoses published in Cent. 34 were repeated in Hedwigia 24(6): 259–264, [Nov./Dec.] 1885.]

Uromyces affinis G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 34: no. 3307, 1885 [Hedwigia **24**(6): 259, 1885].
≡ *Coeomurus affinis* (G. Winter) Kuntze [as "*Caeomurus*"], Revis. gen. pl. **3**(3): 449, 1898.
≡ *Uromycopsis affinis* (G. Winter) Arthur, Résult. Sci. Congr. Bot. Wien 1905: 345, 1906.
≡ *Nigredo affinis* (G. Winter) Arthur, N. Amer. Fl. **7**(11): 755, 1926.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3307 (fig. 70).



Rabenhorst-Winter, Fungi europaei.

3307. Uromyces affinis Winter nov. sp.

I. Aecidium: Pseudoperidia gregaria, acervulos rotundatos vel plus minusve elongatos, saepe laxos formantia, brevissime cylindrica vel fere patellaeformia, margine inciso, erecto, albida, ca. 1/4 Mill. alta. Sporae rotundato-angulatae, aurantiacae, minutissime verruculosae, 17—23 μ Diam.

III. Teleutosporae: Acervuli sparsi v. gregarii, non raro confluentes, elliptici vel plus minusve elongati, primo epidermide tecti, demum errumpentes, pulveracei, fusci. Sporae ovatae, ellipsoideae vel oblongae, non raro irregulares vel pyriformes, membrana tenuissima aequali, ad apicem vel laterale (plerumque) apiculo brevi, conico, subhyalino praeditae, fuscae, 24—30 μ longae, 14—21 μ crassae, episporio longitudinaliter striato, pedicello sublongo, valde fragili, hyalino sulfultae.

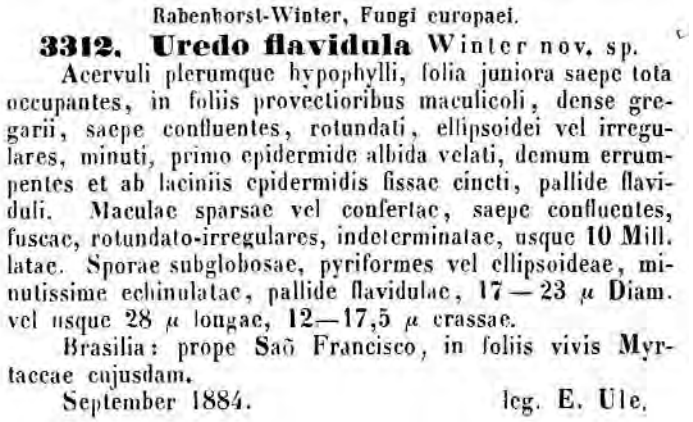
America borealis: prope Perryville, Missouri. In foliis scapisque vivis Hypoxydis erectae L.

Mai 1883. leg. C. H. Demetrio.

Observ.: Diese Art steht in der Teleutosporenform dem Uromyces Erythronii DC. sehr nahe, der sich wesentlich nur durch etwas grössere Sporen auszeichnet. Dagegen sind die Aecidien beider Arten ganz verschieden. Mit Uromyces Hypoxydis Cooke in Grevillea X. p. 127 hat unsere Art nichts gemein.

Fig. 70

Uredo flavidula G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 34: no. 3312, 1885 [Hedwigia **24**(6): 260, 1885].
= *Puccinia psidii* G. Winter, Hedwigia **23**: 171, 1884.
≡ *Bullaria psidii* (G. Winter) Arthur & Mains, N. Amer. Fl. **7**(7): 488, 1922.
≡ *Dicaeoma psidii* (G. Winter) Kuntze, Revis. gen. pl. **3**(3): 470, 1898.
≡ ***Austropuccinia psidii*** (G. Winter) Beenken, Phytotaxa **297**(1): 55, 2017.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3312 (fig. 71). The complete synonymy and a discussion of the nomenclature of *Austropuccinia psidii* are listed in this work above under "*Puccinia psidii*" (p. 22).



Rabenhorst-Winter, Fungi europaei.

3312. Uredo flavidula Winter nov. sp.

Acervuli plerumque hypophylli, folia juniora saepe tota occupantes, in foliis provectioribus maculicoli, dense gregarii, saepe confluentes, rotundati, ellipsoidei vel irregulares, minuti, primo epidermide albida velati, demum errumpentes et ab laciniis epidermidis fissae cincti, pallide flavidi. Maculae sparsae vel confertae, saepe confluentes, fuscae, rotundato-irregulares, indeterminatae, usque 10 Mill. latae. Sporae subglobosae, pyriformes vel ellipsoideae, minutissime echinulatae, pallide flavidulae, 17—23 μ Diam. vel usque 28 μ longae, 12—17,5 μ crassae.

Brasilia: prope Saõ Francisco, in foliis vivis Myrtaceae cujusdam.

September 1884. leg. E. Ule.

Fig. 71

Aecidium alliicola G. Winter [as "*alliicolum*"] , in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 3317, 1885 [Hedwigia **24**(6): 260, 1885].
= ***Uromyces sporoboli*** Ellis & Everh., Proc. Acad. Nat. Sci. Philadelphia **45**: 155, 1893.
≡ *Coeomurus sporoboli* (Ellis & Everh.) Kuntze [as "*Caeomurus*"], Revis. gen. pl. **3**(3): 450, 1898.
≡ *Nigredo sporoboli* (Ellis & Everh.) Arthur, N. Amer. Fl. **7**(3): 227, 1920.
≡ *Puccinella sporoboli* (Ellis & Everh.) Syd., Ann. Mycol. **20**(3/4): 123, 1922.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3317 (fig. 72). Taxonomy, description and synonymy, see Cummins (1971: 454). *Aecidium alliicola* is older than *Uromyces sporoboli* and the epithet "*alliicola*" would be available in *Uromyces*, so that *U. sporoboli* is in need of conservation.

Rabenhorst-Winter, Fungi europaei.

3317. Aecidium Alliicolum Winter
nova spec.

Pseudoperidia dense stipata, acervulos elongatos, plerumque caulem ambientes saepeque cum parum tumefacientes formantia, breve cylindrica, sursum saepe parum dilatata, margine crenato, subinciso, erecto vel parum recurvato, albida, ca. 1/2 Mill. alta. Sporae rotundato-angulatae, aurantiacae, 21—26 μ Diam., minutissime et dense verruculosae.

Ad folia scaposque vivos Allii stellati Nutt.
Mai 1883. leg. C. H. Demetrio.

Fig. 72

Meliola niessliana G. Winter [as "*niessleana*"], Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 34: no. 3339, 1885 [Hedwigia **24**(6): 260, 1885].

and

Nectria aureola G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 33: no. 3339, 1885 [Hedwigia **24**(6): 261, 1885].

≡ *Cucurbitaria aureola* (G. Winter) Kuntze, Revis. gen. pl. **3**(3): 460, 1898.

≡ *Lasionectria aureola* (G. Winter) Petch, Trans. Brit. Mycol. Soc. **21**(3-4): 267, 1938.

Notes: These are two new species names validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3339 (fig. 73). Booth (1959: 105) published a comprehensive treatment of *Nectria aureola*.

Rabenhorst-Winter, Fungi europaei.

3339. Meliola Niessleana Winter
nova species.

Mycelium plagas amphigenas, subminutas, rotundatas vel angulato-irregulares, atras, opacas, 1/2—1 1/2 Millim. latas formans. Hyphae dense intertextae, ramosae, repentes, septatae, fuscae, hyphopodia plerumque alternantia, forma varia (rhomboidea, angulata, saepe tuberculata etc.), stipitata, 21—26 μ longa (cum stipite), 14—17 μ lata gerentes, setis rigidis, erectis, atris, obtusis, integris obsitae. Perithecia parca, superficialia, globosa, verruculosa, atra, 240—260 μ Diam., basi setis rigidis, subacutis, atris, divergentibus cincta. Asci oblongi (vel subclavati), in stipitem brevem, crassum attenuati, 2—4 spori, 87—100 μ longi, 26—32 μ crassi. Sporae conglobatae, elongato-oblongae, utrinque attenuatae et rotundatae, semper inaequilaterales vel curvulae, 3-septatae, badiae, ad septa perparum constrictae, 47—54 μ longae, 14—16 μ latae.

In foliis vivis Rhododendri Chamaecisti prope caponam „Hinterhorn" faucium „Strub" Salisburgi.

Augusto 1884. leg. G. von Niessl.

Observ.: Diese interessante Art — meines Wissens die einzige echte Meliola diesseits der Alpen — wächst sehr häufig in Gesellschaft des:

Dimerosporium maculosum (Spegazz.).
Saccardo, Michelia II. pag. 159. — Aplosporium maculosum Spegazz., Decades mycol. Nr. 85.

Spegazzini giebt die Sporen als hyalin, 8—10 mmm lang, 2 1/2—3 1/2 mmm dick, die Asci 30—35 mmm lang, 8 mmm dick an. Bei seinen eigenen Exemplaren aber, ebenso wie bei den vorliegenden sind die Sporen satt honigbraun, 12—14 mmm lang, 5 mmm dick, die Asci 44—52 (seltener bis 63) mmm lang, 9 bis 10,5 mmm breit. Spegazzini scheint demnach nur unreife Exemplare untersucht zu haben. — Ich habe auch von dieser Art Abbildung der Asci und Sporen beigefügt.

Auf der Meliola wächst noch eine Nectria parasitisch, wie wir auch auf den exotischen Meliola-Arten häufig Nectrien als Parasiten antreffen. Leider waren nicht genügend Exemplare zu finden, um auch diese mit auszugeben. Ich beschränke mich daher darauf, ihre Beschreibung mit anzufügen:

Nectria aureola Winter nov. spec.

Perithecia gregaria, globoso-brevissime conoidea, undique, praecipue autem in parte superiori pilis brevibus, rigidis, simplicibus, hyalinis, apice rotundatis obsita, pallide aureola, diaphana. Asci oblongo-fusiformes, stipite brevissime crassoque praediti, 8-spori, 47—53 mmm longi, 7 mmm crassi. Sporae fusiformes, utrinque parum attenuatae, anguste rotundatae, medio uniseptatae, sed non constrictae, hyalinae, 14 mmm longae, 2,5 mmm crassae.

W.

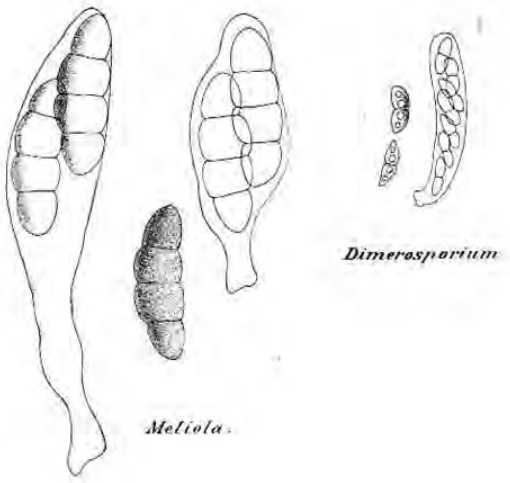


Fig. 73

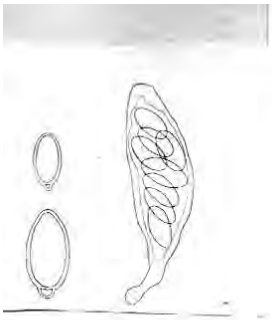
Lizonia inaequalis G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 34: no. 3346, 1885 [Hedwigia **24**(6): 261, 1885].

≡ *Munkiella inaequalis* (G. Winter) Speg., Bol. Acad. Nac. Ci. **11**(4): 547, 1889.

≡ ***Botryostroma inaequale*** (G. Winter) Höhn. [as "*inaequalis*"], Sitzungsber. Kaiserl. Akad. Wiss. Wien, Math.-Naturw. Cl., Abt. 1, **120**: 425, 1911.

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3346 (fig. 74). *Lizonia inaequalis* is the type species of *Botryostroma*, which is a currently recognised

genus (Wijayawardene et al. 2017). Description and illustration, see: https://www.dothideomycetes.org/dothideomycetes/dothideomycetes-genera-incertae-sedis/botryostroma/botryostroma-inaequale.html.



Rabenhorst-Winter, Fungi europaei.

3346. Lizonia? inaequalis Winter
nova species.

Perithecia amphigena, soros rotundatos vel irregulares, saepe compactos, 1/2—10 Mill. latos formantia, plerumque densissime stipata, superficialia, globosa, depressa, demum vertice impresso, umbilicato, verruculosa, atra, opaca, ostiolo minutissimo, pertuso, interdum brevissime papillaeformi, 210—240 μ Diam. Asci oblongi, sursum parum, deorsum magis attenuati, stipite sublongo, gracili praediti, membrana apice valde incrassata, 8-spori, 70—75 μ longi, 19—20 μ crassi. Sporae subdistichae, ellipticae, 2-cellulares, cellula superiori multo majori, elliptica, basi subtruncata, cellula inferiori apiculiformi, minutissima, primo hyalinae, demum pallide fuscidulae.

Brasilia: prope Saõ Francisco. In foliis vivis Compositae adhuc ignotae, scandentis (Mikaniae spec.?)
August 1884. leg. E. Ule.

Fig. 74

Pleospora pezizoides Ces., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 34: no. 3352, 1885 [Hedwigia **24**(6): 262, 1885].
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3352 (fig. 75).

Rabenhorst-Winter, Fungi europaei.

3352. Pleospora pezizoides Cesati
nov. spec.

Perithecia sparsa quippe sed passim distincte seriata, quia praecipue nervis foliorum prominentibus imposita, subcutanea, erumpentia, vertice ad maturitatem depressa fere patellari, poro pertuso, nigra, opaca, diametro millimetri, haud raro minora sterilescentia. — Ascos, facile diffluos, integros observare non licuit. — Sporidia primitus naviculari obsolete 3-septata, 15×4/500, dein leviter soleiformia, altero polo obtuso, altero breviter attenuato, viridula, pluri-septata, incomplete muriformia, 15×5-6/500.

Italia: in horto botanico Neapolitano. In foliis vetustis Dracaenae australis.
leg. Cesati.

Fig. 75

Massaria occulta Romell, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 34: no. 3354, 1885 [Hedwigia **24**(6): 262, 1885].
≡ *Pseudovalsa occulta* (Romell) Berl., Icon. fung. **1**(1): tab. 34, fig. 3, 1890.
≡ *Hymenopleella occulta* (Romell) Shoemaker & LeClair, Canad. J. Bot. **53**(15): 1587, 1975.
≡ ***Acrocordiella occulta*** (Romell) O.E. Erikss., Mycotaxon **15**: 189, 1982.
Notes: This is a new species name validly published on the label of Winter, Rabenh. Fungi Eur. Extraeur. Exs. 3354 (fig. 76). Taxonomy, phylogeny, description, illustration and typification, see Jaklitsch et al. (2016a).

Rabenhorst-Winter, Fungi europaei.

3354. Massaria occulta Romell
nova spec.

Perithecia sparsa vel subaggregata, cortice tota immersa, nigra, intus atra, minuta (circa 1/5 mm diam.), ostiola vix emersa, nudo oculo puncta alba in peridermio laevi (non elevato) offerentia. Asci cylindracei, breviter stipitati, paraphysati, octospori, 130—180 μ longi (pars sporif.), 10—12 μ crassi. Sporae monostichae, oblongae, obtusae, saepe nonnihil inaequilaterales, primo 4-guttulatae, guttulis globosis, deinde guttulis transverse ovalibus v. transverse fusiformibus, demum 3-septatae, fuliginco-olivaceae, 20—28 μ longae, 8—9 μ crassae, vix vel non hyalino-obvolutae. (An nov. genus?)

Suecia: prope Rumla, Nericia. Ad ramos emortuos Ribis Grossulariae.
Aestate 1885. leg. L. Romell.

Fig. 76

Valsaria stellulata Romell, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 34: no. 3357, 1885 [Hedwigia **24**(6): 263, 1885].
= *Sphaeria astroidea* Fr., Kongl. Svenska Vetensk. Akad. Handl., Ser. 3, **40**: 101, 1819.
≡ ***Endoxylina astroidea*** (Fr.) Romell, Fungi Exs. Suec., Praes. Scand.: no. 168, 1892.
≡ *Trematosphaeria astroidea* (Fr.) Ellis, Proc. Acad. Nat. Sci. Philadelphia **47**: 24, 1895.
≡ *Eutypa astroidea* (Fr.) Rappaz, Mycol. Helv. **2**(3): 378, 1987.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3357 (fig. 77). Taxonomy and synonymy, see Ju et al. (1996: 438).

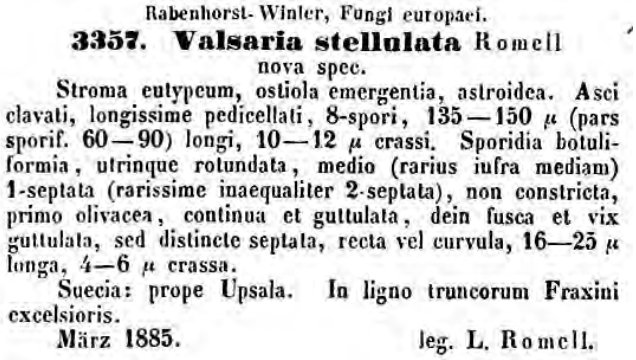

Rabenhorst-Winter, Fungi europaei.
3357. Valsaria stellulata Romell
nova spec.
Stroma eutypeum, ostiola emergentia, astroidea. Asci clavati, longissime pedicellati, 8-spori, 135—150 μ (pars sporif. 60—90) longi, 10—12 μ crassi. Sporidia botuliformia, utrinque rotundata, medio (rarius infra mediam) 1-septata (rarissime inaequaliter 2-septata), non constricta, primo olivacea, continua et guttulata, dein fusca et vix guttulata, sed distincte septata, recta vel curvula, 16—25 μ longa, 4—6 μ crassa.
Suecia: prope Upsala. In ligno truncorum Fraxini excelsioris.
März 1885. leg. L. Romell.

Fig. 77

Endoxyla populi Romell, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 34: no. 3358, 1885 [Hedwigia **24**(6): 263, 1885].
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3358 (fig. 78). Untereiner (1993) excluded this name from *Endoxyla* and stated that this fungus belongs to *Cryptosphaeria*.

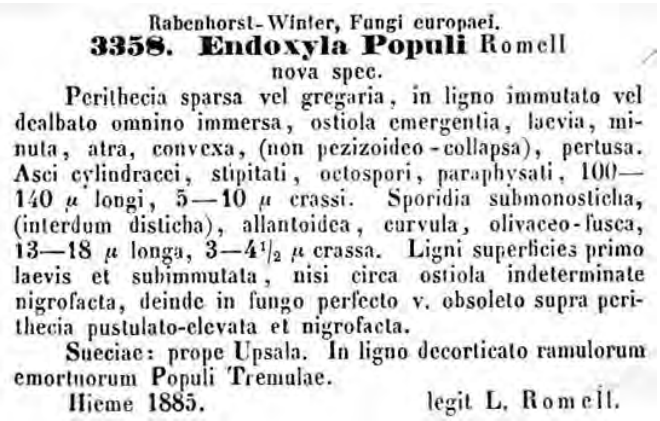
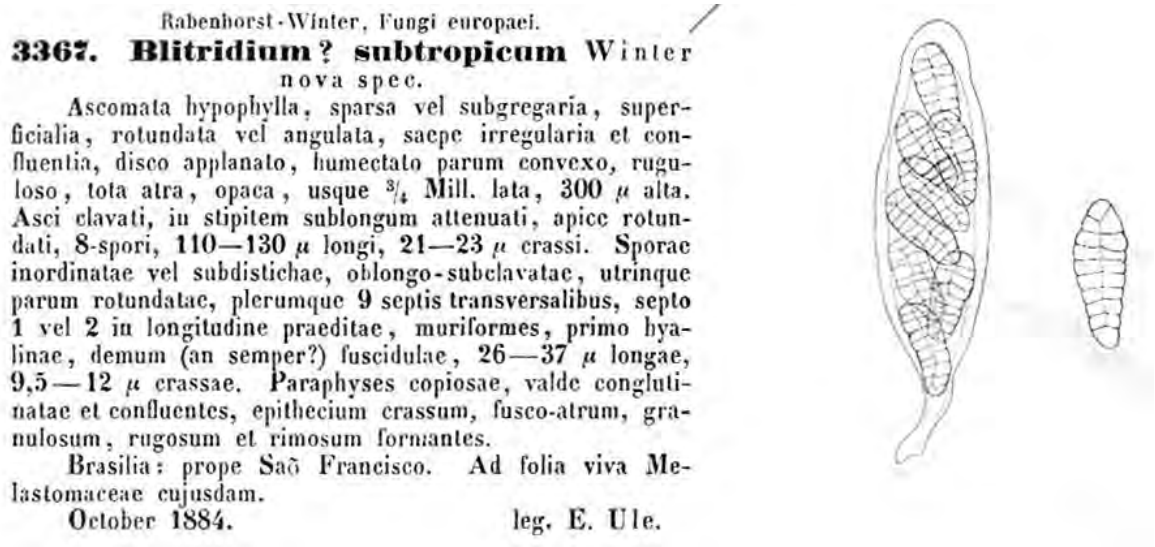

Rabenhorst-Winter, Fungi europaei.
3358. Endoxyla Populi Romell
nova spec.
Perithecia sparsa vel gregaria, in ligno immutato vel dealbato omnino immersa, ostiola emergentia, laevia, minuta, atra, convexa, (non pezizoideo-collapsa), pertusa. Asci cylindracei, stipitati, octospori, paraphysati, 100—140 μ longi, 5—10 μ crassi. Sporidia submonosticha, (interdum disticha), allantoidea, curvula, olivaceo-fusca, 13—18 μ longa, 3—4½ μ crassa. Ligni superficies primo laevis et subimmutata, nisi circa ostiola indeterminate nigrofacta, deinde in fungo perfecto v. obsoleto supra perithecia pustulato-elevata et nigrofacta.
Sueciae: prope Upsala. In ligno decorticato ramulorum emortuorum Populi Tremulae.
Hieme 1885. legit L. Romell.

Fig. 78

Blitridium subtropicum G. Winter, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 34: no. 3367, 1885 [Hedwigia **24**(6): 263, 1885].
≡ *Tryblidaria subtropica* (G. Winter) Rehm, Hedwigia **30**: 252, 1891.
≡ ***Protoscypha subtropica*** (G. Winter) Petr., Ann. Mycol. **32**(5/6): 363, 1934.
≡ *Dothiora subtropica* (G. Winter) J.H. Mill. & Burton, Mycologia **35**(1): 83, 1943.
= *Blitridium subtropicum* var. *microspermum* Henn., Hedwigia **41**: 304, 1902.
= *Protoscypha pulla* Syd., Ann. Mycol. **23**: 403, 1925.
= *Myrianginella costaricensis* F. Stevens, Illinois Biol. Monogr. **11**(2): 165, 1927.
= *Pittierodothis miconiae* Chardón, Bol. Soc. Venez. Ci. Nat. **5**(40): 346 [“246”], 1939, nom. inval. (Art. 39.1).
Notes: This is a new species name validly published on the label of Winter, Rabenh. Fungi Eur. Extraeur. Exs. 3367 (fig. 79). Taxonomy on generic level, see Petrak (1951). Synonymy, see Miller & Burton (1943).



Rabenhorst-Winter, Fungi europaei.

3367. Blitridium? subtropicum Winter nova spec.

Ascomata hypophylla, sparsa vel subgregaria, superficialia, rotundata vel angulata, saepe irregularia et confluentia, disco applanato, humectato parum convexo, ruguloso, tota atra, opaca, usque 3/4 Mill. lata, 300 μ alta. Asci clavati, in stipitem sublongum attenuati, apice rotundati, 8-spori, 110—130 μ longi, 21—23 μ crassi. Sporae inordinatae vel subdistichae, oblongo-subclavatae, utrinque parum rotundatae, plerumque 9 septis transversalibus, septo 1 vel 2 in longitudine praeditae, muriformes, primo hyalinae, demum (an semper?) fuscidulae, 26—37 μ longae, 9,5—12 μ crassae. Paraphyses copiosae, valde conglutinatae et confluentes, epithecium crassum, fusco-atrum, granulosum, rugosum et rimosum formantes.

Brasilia: prope Saõ Francisco. Ad folia viva Melastomaceae cujusdam.

October 1884. leg. E. Ule.

Fig. 79

Triblidium rufulum (Spreng.) G. Winter [as "*Tryblidium*"], Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 34: no. 3369, 1885.

≡ *Hysterium rufulum* Spreng., Kongl. Svenska Vetensk. Akad. Handl., Ser. 3, **41**: 50, 1820.

≡ ***Rhytidhysteron rufulum*** (Spreng.) Speg., Anal. Soc. Cient. Argent. **90**(3-6): 177, 1921.

[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=121714; ttps://www.mycobank.org/MB/121714.]

Notes: This is a new combination validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3369 (fig. 80).

Rabenhorst-Winter, Fungi europaei.

3369. Tryblidium rufulum (Spreng.).

Hysterium rufulum Spreng. in Acta holm. 1820. pag. 50.

America borealis: prope San Francisco, Californiae.

In ramis emortuis Rhois diversilobae.

Januar—Mai 1885. leg. H. W. Harkness.

Fig. 80

Leucoloma ustorum (Berk. & Broome) Rehm, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 34: no. 3376, 1885 [Hedwigia **24**(6): 227, 1885].

≡ *Peziza ustorum* Berk. & Broome, J. Linn. Soc., Bot. **14**: 105, 1875.

≡ ***Humaria ustorum*** (Berk. & Broome) Sacc., Syll. Fung. **8**: 119, 1889.

Notes: This is a new combination validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3376 (fig. 81). Recognised and described under *Humaria* by Rick (1931: 83).

Rabenhorst-Winter, Fungi europaei.

3376. Leucoloma ustorum (Berk. et Br.), Rehm in litt.

Peziza ustorum B. et Br. in Journ. of Linn. Soc. XIV. p. 105. sec. Rehm!

Borussia: in silva „Grunewald" prope Berolinum, in locis adustis.

September 1885. leg. P. Sydow.

Fig. 81

Cent. 35

[The descriptions published in Cent. 35 (1886) were repeated and annotated in Hedwigia 25(6): 257–263, 1886 (Nov./Dec.), only including *Ustilago kolaczekii* (on p. 260), and Hedwigia 26(1): 24–26, 1887 (Jan./Feb.), which encompassed all other descriptions.]

Ustilago kolaczekii J.G. Kühn, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 35: no. 3401, 1886 [Hedwigia **25**(6): 260, 1886].
= *Tilletia magnusiana* A.A. Fisch. Waldh., Apercu systématique des Ustilaginées: 47, 1877.
≡ ***Sporisorium magnusianum*** (A.A. Fisch. Waldh.) Vánky, Mycotaxon **99**: 9, 2007.
[Full synonymy, see: https://www.mycobank.org/MB/510388.]
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3401 (fig. 82). Synonymy of *Ustilago kolaczekii*, see Vánky (2007, 2012).

Rabenhorst-Winter, Fungi europaei.

3401. Ustilago Kolaczekii Jul. Kühn in lit. et per occas. exercit. in laborat. oeconomico-physiol. Univers. Halensis (adhinc duodeviginti annos).

Sporen rund und rundlich-eckig, seltener eiförmig oder länglich, braun, durchscheinend, glatt. Durchmesser meist von 8,8 — 11,2 Mikra schwankend, nur vereinzelt bis etwas unter 8 Mikra sinkend oder um ein Geringes 11,2 Mikra noch übersteigend. Das Mittel beträgt nahezu 10 Mikra. Die Länge der eiförmigen Sporen steigt von 12,0 bis zu 14,4 Mikra an.

Germania: In horto botanico Berolinensi, in Setariae geniculatae germinibus, e seminibus chilensibus cultae. Autumno 1884. leg. P. Hennings.

Obs.: Herr Geh. Rath Prof. Dr. Kühn, dem ich diesen Pilz zur Bestimmung zusandte, macht darüber folgende Mittheilungen:

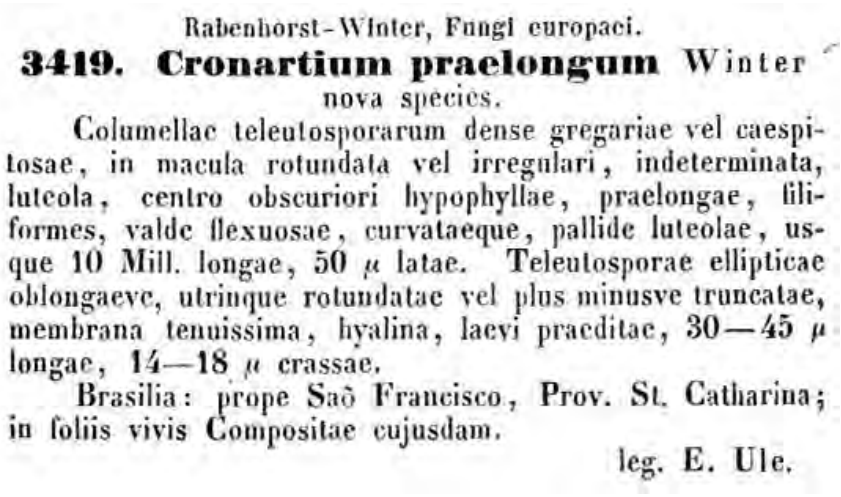
„Die vorliegende Form kommt überein mit einem im Jahr 1868 von meinem Schüler, Herrn Czilchert aus Ungarn auf Mohar (Panicum italicum pabularis Alf.) mir zugegangenen Brandpilz, den ich zu Ehren von Erwin Kolaczek, welchem wir ein für studirende Landwirthe berechnetes, recht gutes Lehrbuch der Botanik verdanken, mit obigem Namen bezeichnete und in dem Versuchsgarten des landwirthschaftlichen Instituts cultivirte. Diesen hiesigen Culturexemplaren entstammt das Material, welches Prof. Dr. v. Liebenberg bei seinen Versuchen über die Keimdauer der Brandsporen benutzte. In dem über diese Versuche im Oesterr. landw. Wochenblatt erschienenen Berichte ist obige Form bereits mit erwähnt. — Dieselbe unterscheidet sich von dem extrem vielgestaltigen Ustilago Crameri Körnicke durch die bei aller auch bei ihr vorhandenen Schwankung doch immerhin relativ grössere Gleichmässigkeit der Bildung und durch die durchschnittlich erheblich grösseren Sporen."

Halle, den 31. Juli 1886.

Prof. Dr. Julius Kühn.

Fig. 82

Cronartium praelongum G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 35: no. 3419, 1886 [Hedwigia **26**(1): 24, 1887].
≡ ***Cionothrix praelonga*** (G. Winter) Arthur, N. Amer. Fl. **7**(2): 124, 1907.
Notes: This is a new specis name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3419 (fig. 83).



Rabenhorst-Winter, Fungi europaei.

3419. Cronartium praelongum Winter
nova species.

Columellae teleutosporarum dense gregariae vel caespitosae, in macula rotundata vel irregulari, indeterminata, luteola, centro obscuriori hypophyllae, praelongae, filiformes, valde flexuosae, curvataeque, pallide luteolae, usque 10 Mill. longae, 50 μ latae. Teleutosporae ellipticae oblongaeve, utrinque rotundatae vel plus minusve truncatae, membrana tenuissima, hyalina, laevi praeditae, 30—45 μ longae, 14—18 μ crassae.

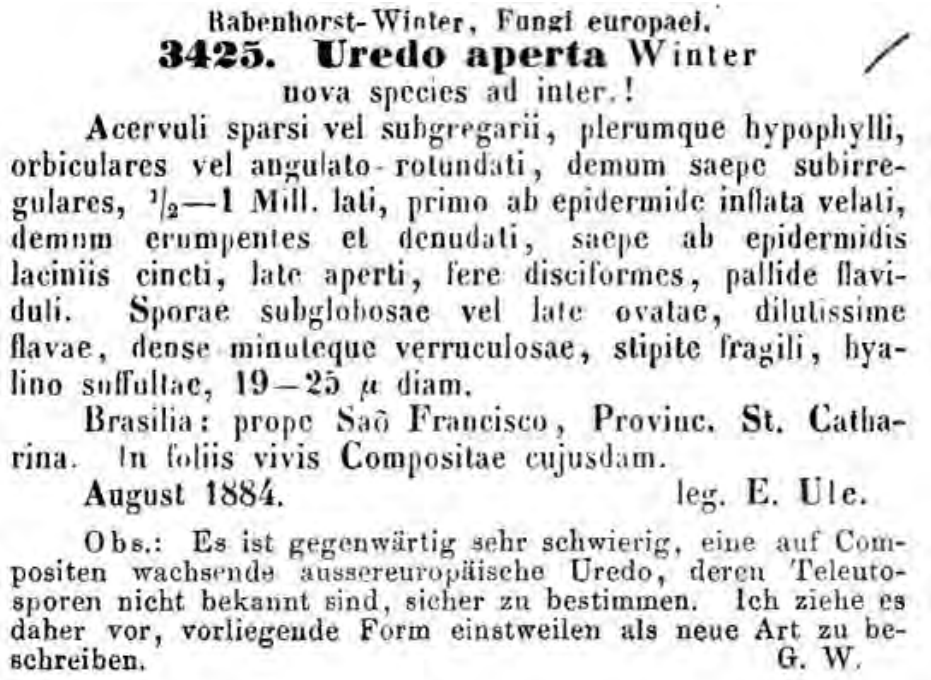
Brasilia: prope Saõ Francisco, Prov. St. Catharina; in foliis vivis Compositae cujusdam.

leg. E. Ule.

Fig. 83

Uredo aperta G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 35: no. 3425, 1886 [Hedwigia **26**(1): 24, 1887], nom. inval. (Art. 36.1).

Notes: This is an invalid new species name published on the label of Winter, Fungi Eur. Extraeur. Exs. 3425 (fig. 84). Saccardo (1888: 841) failed to validate this name. He copied Winter's description, but also added "ad int."



Rabenhorst-Winter, Fungi europaei.

3425. Uredo aperta Winter
nova species ad inter.!

Acervuli sparsi vel subgregarii, plerumque hypophylli, orbiculares vel angulato-rotundati, demum saepe subirregulares, $^1/_2$—1 Mill. lati, primo ab epidermide inflata velati, demum erumpentes et denudati, saepe ab epidermidis laciniis cincti, late aperti, fere disciformes, pallide flaviduli. Sporae subglobosae vel late ovatae, dilutissime flavae, dense minuteque verruculosae, stipite fragili, hyalino suffultae, 19—25 μ diam.

Brasilia: prope Saõ Francisco, Provinc. St. Catharina. In foliis vivis Compositae cujusdam.

August 1884. leg. E. Ule.

Obs.: Es ist gegenwärtig sehr schwierig, eine auf Compositen wachsende aussereuropäische Uredo, deren Teleutosporen nicht bekannt sind, sicher zu bestimmen. Ich ziehe es daher vor, vorliegende Form einstweilen als neue Art zu beschreiben. G. W.

Fig. 84

Asterina inaequalis f. *minor* G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 35: no. 3437, 1886.
Notes: This is a new forma published on the label of Winter, Fungi Eur. Extraeur. Exs. 3437 (fig. 85).

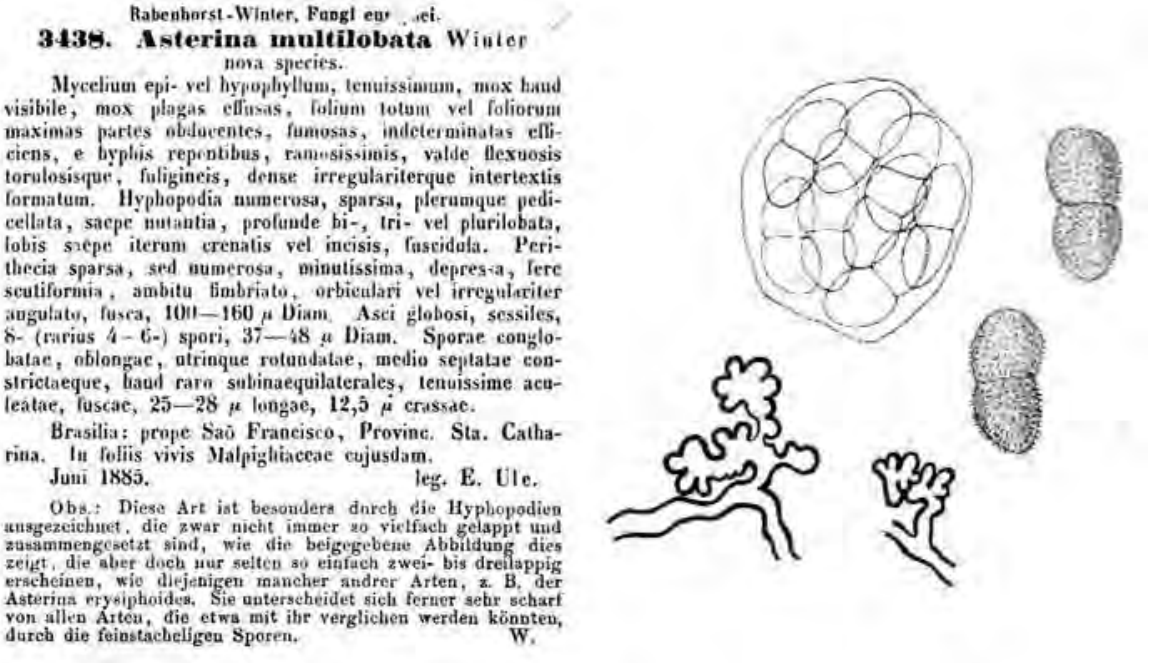
Rabenhorst-Winter, Fungi europaei.

3437. Asterina inaequalis Montagne,
VII. Cent. de Plant. cellul. No. 10. in Annales d. Sc. nat. Sér. IV. t. V. pag. 340.
Asterina Licaniae Cooke in Grevillea XII. pag. 85. sec. spec. orig.!
Forma minor: Sporae parum minores; Asci (an semper?) 4-spori.
Brasilia: prope Saõ Francisco, Provinc. St. Catharina. In foliis vivis Malpighiaceae cujusdam.
Aestate 1885. leg. E. Ule.

Obs.: Asterina inaequalis ist sehr ausgezeichnet durch ihr Mycel, das keine Hyphopodien besitzt, hingegen stellenweise knotige Anschwellungen zeigt, die nicht, wie bei anderen Asterina-Arten, nur einseitig ausgebildet sind, sondern ringsum die Hyphe nahezu gleichmässig umgeben. — Vorliegende Exemplare haben etwas kleinere Sporen und (ob immer?) 4sporige Asci, stimmen aber in allem Uebrigen mit den Montagne'schen Original-Exemplaren im Pariser Herbar überein. Asterina Licaniae, die ich ebenfalls in einem Original-Exemplare durch Güte Cooke's untersuchen konnte und die ich reichlich auch von Ule auf Licania erhielt, unterscheidet sich in keiner Weise von A. inaequalis. W.

Fig. 85

Asterina multilobata G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 35: no. 3438, 1886 [Hedwigia **26**(1): 25, 1887].
≡ *Asterinella multilobata* (G. Winter) Theiss., Brotéria, Sér. Bot., **10**(2): 119, 1912.
≡ ***Prillieuxina multilobata*** (G. Winter) R.W. Ryan, Illinois Biol. Monogr. **17**(2): 79, 1939.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3438 (fig. 86). Description and taxonomy, see Stevens & Ryan (1939: 79).



Rabenhorst-Winter, Fungi europaei.

3438. Asterina multilobata Winter
nova species.

Mycelium epi- vel hypophyllum, tenuissimum, mox haud visibile, mox plagas effusas, folium totum vel foliorum maximas partes obducentes, fumosas, indeterminatas efficiens, e hyphis repentibus, ramosissimis, valde flexuosis torulosisque, fuligineis, dense irregulariterque intertextis formatum. Hyphopodia numerosa, sparsa, plerumque pedicellata, saepe nutantia, profunde bi-, tri- vel plurilobata, lobis saepe iterum crenatis vel incisis, fuscidula. Perithecia sparsa, sed numerosa, minutissima, depressa, fere scutiformia, ambitu fimbriato, orbiculari vel irregulariter angulato, fusca, 100—160 μ Diam. Asci globosi, sessiles, 8- (rarius 4- 6-) spori, 37—48 μ Diam. Sporae conglobatae, oblongae, utrinque rotundatae, medio septatae constrictaeque, haud raro subinaequilaterales, tenuissime aculeatae, fuscae, 25—28 μ longae, 12,5 μ crassae.

Brasilia: prope Saõ Francisco, Provinc. Sta. Catharina. In foliis vivis Malpighiaceae cujusdam.
Juni 1885. leg. E. Ule.

Obs.: Diese Art ist besonders durch die Hyphopodien ausgezeichnet, die zwar nicht immer so vielfach gelappt und zusammengesetzt sind, wie die beigegebene Abbildung dies zeigt, die aber doch nur selten so einfach zwei- bis dreilappig erscheinen, wie diejenigen mancher andrer Arten, z. B. der Asterina erysiphoides. Sie unterscheidet sich ferner sehr scharf von allen Arten, die etwa mit ihr verglichen werden könnten, durch die feinstacheligen Sporen. W.

Fig. 86

Myxosporium hyalinum (Ellis) G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 35: no. 3479, 1886 [Hedwigia **25**(6): 258, 1886].
≡ *Melanconium hyalinum* Ellis, Bull. Torrey Bot. Club **9**(11): [133], 1882.

≡ *Discosporium hyalinum* (Ellis) Höhn., Z. Gärungsphysiol. **5**: 196, 1915.
= *Dothichiza populea* Sacc. & Briard, in Saccardo, Syll. fung. **3**: 672, 1884.
≡ *Chondroplea populea* (Sacc. & Briard) Kleb., Phytopathol. Z. **6**: 291, 1933.
= *Cryptospora populina* Fuckel, Fungi Rhen. Exs., Suppl., Fasc. 6: no. 2004, 1867.
≡ ***Plagiostoma populinum*** (Fuckel) L.C. Mejía, Stud. Mycol. **68**: 225, 2011.
[Full synonymy, see: https://www.mycobank.org/MB/515705.]
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3479 (fig. 87). Synonymy of *Myxosporium hyalinum* with *Chondroplea populea*, see Petrak (1957: 209–211).

Rabenhorst-Winter, Fungi europaei.
3479. Myxosporium hyalinum (Ellis).
Melanconium hyalinum Ellis in Bullet Torr. Club. IX. pag. 133.
Myxosporium Ellisii Sacc., Sylloge III. p. 724.
America borealis: Prope Decorah, Jowa. Ad ramulos aridos Populi dilatatae Ait.
1. Mai 1886. leg. E. W. D. Holway.

Fig. 87

Phoma lolii Pass., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 35: no. 3486, 1886 [Hedwigia **26**(1): 26, 1887].
= ***Ascochyta controversa*** Punith., Mycol. Pap. **142**: 65, 1979.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3486 (fig. 88).

Rabenhorst-Winter, Fungi europaei.
3486. Phoma Lolii Passerini nov. spec.
Perithecia in matrice dealbata sparsa vel subgregaria, epidermide tecta, subsphaeroidea, atra. Sporae cylindricae, rectae, utrinque obtusae, plurinucleolatae, hyalinae, 12—18 μ longae, 2 1/2 μ crassae.
Italia: Prope Parmam, in spicis aridis Lolii perennis, interdum cum Septoria Brachypodii Pass., Septoria Passerinii Sacc. et Hendersonia culmicola Sacc.
Aestate. leg. G. Passerini.

Fig. 88

Septoria westendorpii G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 35: no. 3500, 1886 [Hedwigia **26**(1): 26, 1887], nom. inval. (Art. 36.1).
≡ *Phyllosticta chenopodii* Westend., Bull. Acad. Roy. Sci. Belg., Cl. Sci., Sér. 2, **2**(7): 567, 1857, non *Septoria chenopodii* Westend., 1851.
≡ *Septoria westendorpii* G. Winter ex Sacc., Syll. fung. **10**: 380, 1892.
≡ ***Heterosporicola chenopodii*** (Westend.) Crous, Fungal Diversity **86**: 209, 2017.
[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=821708; https://www.mycobank.org/MB/821708.]
Notes: This is a new name not validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3500 (fig. 89). It was later validated by Saccardo (1892).

Rabenhorst-Winter, Fungi europaei.

3500. Septoria Westendorpii Winter ad int.!

Phyllosticta Chenopodii West., 5. Notice s. q. Hypoxylées etc. No. 56. in Bullet. d. l'Acad. royale d. Belg. II. Sér. tome II. No. 7.

America borealis: Prope Amanda, Ohio. In foliis vivis Chenopodii albi L.

Juni 1883. leg. W. A. Kellerman.

Obs.: Zu Phyllosticta kann vorliegender Pilz nicht gebracht werden; er kann aber auch nicht Septoria Chenopodii (Westd.) genannt werden, da es eine Art dieses Namens bereits giebt (cfr. Saccardo, Sylloge III. pag. 556). W.

Fig. 89

Cent. 36

[The descriptions published in Cent. 36 (1886) were repeated and annotated in Hedwigia 26(1): 26–35, 1887 (Jan./Feb.).]

Puccinia afra G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 36: no. 3506, 1886 [Hedwigia **26**(1): 26, 1887].

≡ *Dicaeoma afrum* (G. Winter) Kuntze, Revis. gen. pl. **3**(3): 467, 1898.

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3506 (fig. 90).

Rabenhorst-Winter, Fungi europaei.

3506. Puccinia Afra Winter nova species.

I. Pseudoperidia ad sepala pedunculosque incrassatos et valde curvatos s. tortuosos dense gregaria, subcylindrica, late aperta, margine valde prominulo profundeque inciso, laciniis plus minusve recurvis seu suberectis, pallide aurantiaca. Sporae rotundatae s. ellipsoideae, angulatae et irregulares, minutissime verruculosae, intense aurantiacae, 28—34 μ Diam., usque 48 μ longae, 21—24 μ latae.

II. et III. Acervuli in foliis amphigeni, rarius etiam ad sepala, sparsi s. gregarii, minuti, rotundati vel elliptici, saepe parum angulato-irregulares, interdum confluentes, errumpentes et valde prominuli, sed ab epidermidis fissae laciniis arrectis cincti, pulveracei, ca. $^1/_2$ Mill. lati. Uredosporae oblongae, deorsum plerumque parum attenuatae, utrinque rotundatae, fusco-luteae, membrana subcrassa, aculeis minutis dense, praecipue verticem versus obsita, ad basin plerumque laevi praeditae, stipite sublongo, crasso, hyalino suffultae, 52—66 μ longae, 20—28 μ crassae. Teleutosporae ellipsoideae, apice cuspidatae, plerumque apiculo conoideo coronatae, basi rotundatae, membrana crassa, amoene badia, dense grosseque verrucosa, stipite longo, crasso, supra medium vesiculose inflata et hic erose-crenato, ceterum aequaliter cylindrico, hyalino suffultae, 40—55 μ longae, 24—27 μ crassae.

Promontor. bon. spei: Prope Capetown. In foliis sepalisque Lycii Afri L.

Aestate 1886. leg. P. Mac Owan.

Obs.: Das Aecidium ist leider bisher nur erst in wenigen Exemplaren gefunden worden, doch wird es hoffentlich in einer der nächsten Centurien ausgegeben werden können. — Diese Art theilt mit den drei andern, ebenfalls Lycium bewohnenden Arten die Eigenthümlichkeit, dass der Stiel der Teleutosporen eine im Wasser stark quellende Partie zeigt. Ich kenne zwar die beiden von Peck (Bullet. of Torrey Botan. Club XII. p. 34) beschriebenen Arten auf Lycium: Puccinia tumidipes und P. globosipes nur aus der Beschreibung und Abbildung. Danach kann aber vorliegende Art nicht mit einer von diesen beiden identisch sein, wie sie auch von P. Lycii Kalchbr. sehr verschieden ist. Ich gebe zur leichteren Vergleichung Abbildungen aller 4 Arten.

Erklärung der Figuren: 1. Puccinia Lycii. 2. Puccinia Afra. 3. P. tumidipes. 4. P. globosipes; (letztere beiden Figuren nach Peck). W.

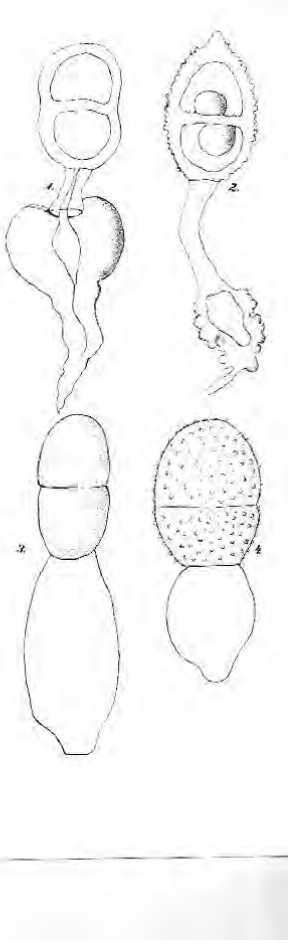
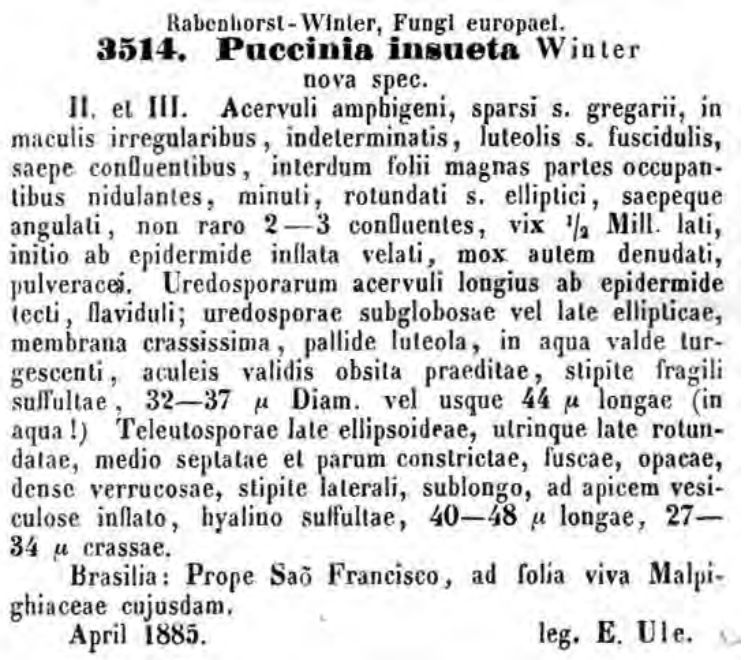


Fig. 90

Puccinia insueta G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 36: no. 3514, 1886 [Hedwigia **26**(1): 27, 1887].
≡ *Dicaeoma insuetum* (G. Winter) Kuntze, Revis. gen. pl. **3**(3): 469, 1898.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3514 (fig. 91).



Rabenhorst-Winter, Fungi europaei.

3514. Puccinia insueta Winter

nova spec.

II. et III. Acervuli amphigeni, sparsi s. gregarii, in maculis irregularibus, indeterminatis, luteolis s. fuscidulis, saepe confluentibus, interdum folii magnas partes occupantibus nidulantes, minuti, rotundati s. elliptici, saepeque angulati, non raro 2—3 confluentes, vix ½ Mill. lati, initio ab epidermide inflata velati, mox autem denudati, pulveracei. Uredosporarum acervuli longius ab epidermide tecti, flaviduli; uredosporae subglobosae vel late ellipticae, membrana crassissima, pallide luteola, in aqua valde turgescenti, aculeis validis obsita praeditae, stipite fragili suffultae, 32—37 μ Diam. vel usque 44 μ longae (in aqua!) Teleutosporae late ellipsoideae, utrinque late rotundatae, medio septatae et parum constrictae, fuscae, opacae, dense verrucosae, stipite laterali, sublongo, ad apicem vesiculose inflato, hyalino suffultae, 40—48 μ longae, 27—34 μ crassae.

Brasilia: Prope Saõ Francisco, ad folia viva Malpighiaceae cujusdam.

April 1885. leg. E. Ule.

Fig. 91

Calyptospora columnaris (Alb. & Schwein.) J.G. Kühn [as "*columnare*"], in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 36: no. 3521, 1886 [Hedwigia **26**(1): 28, 1887].
≡ *Aecidium columnare* Alb. & Schwein., Consp. fung. lusat.: 121, 1805.
≡ *Peridermium columnare* (Alb. & Schwein.) J.C. Schmidt & Kunze, Deutschl. Schwämme, Sechste Lieferung: 4, 1817.
≡ *Caeoma columnare* (Alb. & Schwein.) Link [as "*columneum*"], Sp. pl., Ed. 4, **6**(2): 66, 1825.
≡ *Uredo columnaris* (Alb. & Schwein.) Spreng., Syst. veg. **4**(1): 570, 1827.
≡ *Melampsora columnaris* (Alb. & Schwein.) Wettst., Verh. K. K. Zool.-Bot. Ges. Wien **35**: 551, 1886.
≡ *Thekopsora columnaris* (Alb. & Schwein.) Hirats., J. Soc. Agric. Forest. Sapporo **19**(85): 167, 1927.
= *Calyptospora goeppertiana* J.G. Kühn [as "*geoppertiana*"], Hedwigia **8**: 81, 1869.
≡ *Melampsora goeppertiana* (J.G. Kühn) G. Winter, in Rabenh. Krypt.-Fl., Ed. 2, **1**.1: 245, 1881.
≡ *Pucciniastrum goeppertianum* (J.G. Kühn) Kleb., Wirtswechselnde Rostpilze: 391, 1904.
Notes: This is a new combination validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3521 (fig. 92).

Rabenhorst-Winter, Fungi europaei.

3521. Calyptospora columnare Jul. Kühn in lit.

Calyptospora Göppertiana m. in Hedwigia 1869, pag. 81; Melampsora Göppertiana Winter, die Pilze Deutschlands etc. pag. 245.

I. Teleutosporenform.

a) aus dem Riesengebirge (Umgebung des Kynast) im zeitigen Frühjahr d. J. bezogen;

b) am westlichen Gehänge des Val de Morgin in der Nähe von Bad Morgin bei einer Höhe von ca. 1450 Meter, Ende August 1885 von mir gesammelt.

II. Aecidienform (Aecidium columnare Alb. et Schw. Consp. Fung. 1805 pag. 121, Tab. V, Fig. 4!).

a) forma nova: **Abietis Nordmannianae** †.
In dem Versuchsgarten des landwirthschaftlichen Instituts der Universität Halle auf der Kaukasischen Tanne, Abies Nordmanniana Lk. durch Infection mit den Sporidien des in Ia repräsentirten Materiales im Juni und Juli d. J. von mir erzogen.

b) forma **spontanea**
auf Abies alba Mill. westlich von Bad Morgin (Wallis) von demselben Baume Ende August 1885 gesammelt, unter dem die in Ib gelieferten Exemplare kranker Preisselbeeren sich entwickelt hatten.

Obs.: Die in Rabenhorst, Fungi europ. Ser. II. Cent. IX. s. Nr. 895a als Aec. columnare bezeichneten, von Abb. Carestia im Wallis gesammelten Exemplare gehören nicht zu dieser Art, sondern zu Aecidium abietinum Alb. & Schw. Dasselbe gilt von Nr. 895b und von dem in Klotschii herb. viv. myc. Ed. nova, Cent. I. sub Nr. 96 durch Cesati aus Oberitalien eingesandten Peridermium columnare (Alb. & Schw.) — Bei den in den Jahren 1885 und 1886 im hiesigen Versuchsgarten von mir ausgeführten Infectionen wurde das Aecidium columnare noch auf folgenden Abies sp. erzogen: **Abies nobilis** (Lindl.), **A. magnifica** (Murr.) und **A. concolor** Eng. aus Californien; **A. balsamea** (L.) aus Nordamerika; **A. Fraseri** Pursh aus Pennsylvanien; **A. Apollinis** Heldr., **A. Reginae Amaliae** Heldr. und **A. cephalonica** Endl. aus Griechenland; **A. cilicica** Kotsch. aus Kleinasien; **A. Pichta** (Forb.) aus Sibirien; **A. Pinsapo** Boiss. aus dem südl. Spanien und Nordafrika; **A. Veitchii** Lindl. aus Japan. — Bei Abies (Tsuga) canadensis L. und A. (Tsuga) Douglasii Lindl. gelang mir die Infection nicht.

Den ursprünglichen Gattungsnamen glaube ich aufrecht erhalten zu müssen, da Calyptospora columnare wesentlich von dem typischen Character der Gattung Melampsora abweicht durch die eigenthümliche Bildung der unter den Epidermis der Nährpflanze entwickelten Fruchtschicht und durch die Beschaffenheit der im Innern der Epidermiszellen entwickelten Sporen. Bei ersterer erweitern sich die Mycelienenden zu flaschenförmigen oder unregelmässig gestalteten Gebilden, wie bei a in Fig. 1. Von ihnen aus dringen Sterigmen durch die Membran der Zelle und erzeugen alsbald

Fig. 1.

Fig. 2

kugelige Anschwellungen, die sich zu den Sporen entwickeln. Die fertigen, durch Längswände meist kreuzweis getheilten Sporen lassen in dem inneren Winkel der Abtheilungen je eine Keimpore deutlich erkennen, wie in Fig. 2. Wo im seltenen Falle nur zwei Abtheilungen vorhanden sind, liegen die Poren ebenfalls deutlich erkennbar an analoger Stelle, seitlich der Mitte der Scheidewand. Diese Verhältnisse fehlen bei Melampsora, wie auch eine Vergleichung obiger Figuren und der Fig. 7 auf Taf. II in Robert Hartigs „Lehrbuch der Baumkrankheiten" mit der Abbildung von Melampsora betulina bei Tulasne (Ann. sc. nat. 1854) oder bei Winter, die Pilze etc. I. pag. 138 ergiebt. — Der von Winter l. c. pag. 237 für Beseitigung der Gattung Calyptospora angeführte weitere Grund dürfte nicht entscheidend sein, da es doch vielleicht gerade zweckmässig sein möchte, den Anfänger von vornherein möglichst zum recht exacten Untersuchen und Auffassen der thatsächlichen Verhältnisse zu nöthigen.

Bei der jetzt zur Geltung gekommenen strengen Durchführung des Prioritätsprincipes musste ich zu meinem grössten Leidwesen den früheren Speciesnamen durch die ältere Bezeichnung ersetzen.

Halle, den 6. October 1886.

Prof. Dr. Julius Kühn.

Fig. 92

Dacrymyces confluens P. Karst., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 36: no. 3522, 1886 [Hedwigia **26**(1): 29, 1887; Meddeland. Soc. Fauna Fl. Fenn. **14**: 83, 1887].

= *Dacrymyces paradoxus* P. Karst., Hedwigia **25**: 232, 1886.

= *Ceracea aureofulva* Bres., Ann. Mycol. **4**(1): 39, 1906.

≡ *Cerinomyces aureofulvus* (Bres.) Malysheva, Acta Mycol. **44**(1): 4, 2009.

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3522 (fig. 93). Taxonomy, synonymy and description, see Savchenko et al. (2021).

Rabenhorst-Winter, Fungi europaei.

3522. Dacrymyces confluens Karst.

nova spec.

Gregaria, confluens, subrotundato-applanata, immarginata, sublaevis, basi saepe in stipitem brevissimum, lignum intrantem, subinde villosum attenuata, pallescens, disco flavido, demum (siccitate) deliquescens diluteque aurantiaca vel subflava, usque ad 3 Mill. lata. Sporae oblongatae, simplices, raro uniseptatae, eguttulatae, dilute flavescentes, curvulae, longit. 10—24 μ, crassit. 6—7 μ.

Fennia: Prope Mustiala. In ligno vetusto mucido Pini.

September 1886. leg. P. A. Karsten.

Fig. 93

Physisporus lenis P. Karst., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 36: no. 3527, 1886 [Hedwigia **26**(1): 30, 1887; Meddeland. Soc. Fauna Fl. Fenn. **14**: 83, 1887].

≡ ***Sidera lenis*** (P. Karst.) Miettinen, in Miettinen & Larsson, Mycol. Progr. **10**(2): 136, 2011.

[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=516945; https://www.mycobank.org/MB/516945.]

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3527 (fig. 94).

Rabenhorst-Winter, Fungi europaei.

3527. Physisporus lenis Karsten

nova species.

Effusus, molliusculus, adhaerens, subiculo tenui e mycelio lignum intrante enato, ambitu indeterminato subbyssino, albus. Pori minuti, inaequales, rotundi, oblongi vel angulati, integri, 1—3 Mill. alti.

Fennia: prope Mustiala, ad ligna vetusta cariosa.

September 1886. leg. P. A. Karsten.

Obs.: Physisporus callosus mihi ignotus, forte statum resupinatum Trametis serialis sistit. P. A. Karsten.

Fig. 94

Trametes squalens P. Karst., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 36: no. 3528, 1886 [Hedwigia **26**(1): 30, 1887].

≡ ***Dichomitus squalens*** (P. Karst.) D.A. Reid, Revista Biol., Lisboa **5**(1-2): 150, 1965.

≡ *Favolus squalens* (P. Karst.) Zmitr., Mycena **1**(1): 92, 2001.

[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=312964; https://www.mycobank.org/MB/312964.]

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3528 (fig. 95).

Rabenhorst-Winter, Fungi europaei.

3528. Trametes squalens Karsten

nova spec.

Pilei stuppeo-suberosi, triquetri, seriatim elongati, confluentes, azoni, glabri, pallescentes, dein rufescentes, rufi vel brunnei, saepe resupinati. Pori vulgo rotundi, obtusi, minuti, subaequales, albidi, demum saepe rufo-fuscescentes, hinc inde stratosi.

Fennia: prope Mustiala, in truncis prostratis Pini sylvestris.

August 1886. leg. P. A. Karsten.

Fig. 95

Meliola palmicola P. Karst., in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 36: no. 3547, 1886 [Hedwigia **26**(1): 31, 1887].
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3547 (fig. 96).

Rabenhorst-Winter, Fungi europaei.

3547. Meliola palmicola Winter
nova species.

Synon.: Meliola furcata (Lév.) Martin l. c. p. 148 pr. p.

Mycelium plagas plerumque magnas, 1—15 Millim. latas, amphigenas, rotundato-irregulares, demum saepe effusas et longe lateque confluentes, aterrimas, opacas, velutinas formans, e hyphis repentibus, sublaxe ramosis, valde intertextis, fuscis, 10—11 μ crassis constans. Hyphopodia sparsa, capitata, irregularia, plerumque integra vel parum tantum crenata, saepe curvata, stipite cylindrico, sublongo suffulta, aliis ampullulaeformibus, multo rarioribus mixta. Setae erectae numerosae, strictae, apice plerumque di- vel trichotomae, ramulis saepe iterum bifidis, rarissime apicem versus ramulis brevibus 4—5 obsitae. Perithecia gregaria, globosa, tarde collabentia, rugosa, atra, 175—240 μ diam. Asci evanidi. Sporae cylindricae, utrinque rotundatae, 4-septatae, ad septa constrictae, fuscae, cellula media plerumque crassissima, 52—62 μ longae, 19—23 μ crassae.

America borealis: prope Green Cove Springs, Florida. Ad Sabalidis serrulatae folia viva.

März 1886. leg. G. Martin.

Obs.: Diese und die vorhergehende Art sind nicht nur unter sich, sondern besonders auch von der echten Meliola furcata Lév. sehr verschieden. Von letzterer unterscheiden sie sich sofort und in auffallendster Weise durch die ganz andere Theilungsweise der „setae erectae", abgesehen von anderen Merkmalen. Ich werde hierauf a. a. O. zurückkommen, bei welcher Gelegenheit ich auch die übrigen mit Setae dichotomae versehenen Arten in Vergleich ziehen werde: ich habe von allen diesen Originale untersuchen können. — Unter sich unterscheiden sich Meliola bidentata und M. palmicola nicht sowohl durch die Beschaffenheit der setae erectae, als vielmehr besonders durch die Hyphopodien, sowie auch durch die Sporen. Auch Meliola bicornis ist in der Theilungsweise ihrer Setae den beiden letztgenannten Arten sehr ähnlich; aber auch bei ihr sind die Hyphopodien durchaus charakteristisch geformt. — Ich bemerke noch, dass die in Fungi europaei No. 2846 als Meliola amphitricha ausgegebenen Exemplare ebenfalls zu M. palmicola gehören; nur sind bei ihnen die Setae im Allgemeinen etwas weniger getheilt, meist nur einfach dichotom gespalten, und die Sporen sind durchschnittlich etwas kleiner. Mit der sogenannten Meliola Palmarum Kunze et Fries hat unsere Art aber nichts zu thun; denn dies ist (nach Originalen in Herb. Kunze, Fries et proprio) gar keine Meliola, sondern eine typische Parodiella!

Ich gebe beifolgend zur Vergleichung die Abbildungen der Setae erectae und der Hyphopodien von Meliola palmicola (Fig. a. von No. 2846 der Fungi europ., Fig. b. und c. von vorliegender No.), von Meliola bidentata (Fig. e.) und Meliola bicornis (Fig. d.). W.

Fig. 96

Balansia pallida G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 36: no. 3549, 1886 [Hedwigia **26**(1): 32, 1887].
≡ *Claviceps pallida* (G. Winter) Henn., Beibl. Hedwigia **38**: (64), 1899.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3549 (fig. 97).

Rabenhorst-Winter, Fungi europaei.

3549. Balansia pallida Winter

nova species.

Stromata gregaria (ca. 4—6), e basi sclerotioidea, in graminum germine parasitica, eumque destruente, bulbosa, subglobosa, $^1/_2$—2 Mill. crassa, extus lutea, intus pallida, carnosa orta, sessilia vel stipite plus minusve, elongato, saepe curvato flexuosove, interdum subcompresso angulatoque, saepe longitudinaliter sulcato, luteo-albido praedita. Capitula perithecigera subglobosa, subtus excavata, supra saepe parum tuberculosa et inaequalia, pallide-lutcola, ab ostiolis peritheciorum prominulis punctulata, ca. $^1/_3$ — $^1/_2$ Mill. lata. Perithecia in capitulis peripherica, dense stipata, a stromatis substantia vix diversa, elongato-obovata, ostiolis papillaeformibus, rotundatis, intensius coloratis stromatis superficiem parum prominentia, 290—320 μ alta, 130—160 μ lata. Asci cylindracei, deorsum attenuati, apice late rotundati, tunica valde incrassata, 8-spori, 175—220 μ longi, 3,5—4 μ crassi. Sporae filiformes, ascorum longitudine, tenuissimae, ca. 0,8—0,9 μ crassae, hyalinae, septis multis, sed valde indistinctis. — Stylosporae in germinibus junioribus, superficiem fere totam tuberis sclerotioidei obducentes, e cellulis ejusdem superficialibus ortae, filiformes, plerumque curvatae flexuosaeque, hyalinae, utrinque acutiusculae, 44—62 μ longae, vix 2 μ crassae.

Brasilia: prope Saõ Francisco, Sta. Catharina. In germinibus vivis Luziolae peruvianae Juss.

Mai 1885. leg. E. Ule.

Fig. 97

Gibbera salisburgensis Niessl, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 36: no. 3550, 1886 [Hedwigia **26**(1): 33, 1887].
[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=206397; https://www.mycobank.org/MB/206397.]
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3550 (fig. 98).

Rabenhorst-Winter, Fungi europaei.

3550. Gibbera salisburgensis Niessl

nov. spec.

Perithecia in caespites minutos dense aggregata, subiculo insidentia limitato, tomentoso, atro-fusco e hyphis conidiferis formato, articulatis, ramosisque dense intertextis, globosa, minuta, fragilia, atra, ostiolo punctiforme, setis concoloribus rigidis simplicibus acutis divergentibus undique instructa; asci cylindracei vel elongate clavati, stipite brevi, 65—80 longi, 8—9 lati, paraphysibus copiosis obvallati, tetraspori (an semper?); sporae cuneate-oblongae, rectae vel curvatae, uniseptatae constrictaeque guttulis 4, loculo superiore breviori late rotundato, inferiore longiore parum attenuato, 18—21 longae, 5—6 latae, dilute olivaceae.

Austria: Prope Lofer, Salisburgi. In foliis vivis Ericae carneae.

August 1885. leg. G. von Niessl.

Obs.: In Sturm's Deutschl. Flora 33/34. Heft pag. 29 findet sich ein auf Erica carnea lebender Pilz beschrieben und abgebildet, welcher als Chaetomium pusillum Fries bezeichnet ist, und der habituell mit dem hier vorliegenden nahe übereinstimmt. Der Inhalt der Perithecien besteht jedoch nach der citirten Abbildung aus einem Bündel sehr kleiner sackförmiger Schläuche, welche je einige als Sporen bezeichnete rundliche Kerne enthalten. Hiernach ist es möglich, wenn auch nicht sicher, dass dieser Beschreibung ein ganz unreifes Exemplar unseres Pilzes zu Grunde lag. Fries schreibt seinem Chaetomium pusillum kugelige Sporen zu und erklärt, dass es dem Chaet. globosum sehr nahe stehe, so dass der Fries'sche Pilz mit unserem unmöglich identisch sein kann. N.

Fig. 98

Anthostomella vaga Niessl, in G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 36: no. 3551, 1886 [Hedwigia **26**(1): 33, 1887].
≡ ***Amphisphaerella vaga*** (Niessl) O.E. Erikss., Svensk Bot. Tidskr. **60**: 321, 1966.
Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3551 (fig. 99).

Rabenhorst-Winter, Fungi europaei.

3551. Anthostomella vaga Niessl

nova spec.

Perithecia in cortice vel ligno immersa nunc solitaria nunc gregaria, seriata, interdum dense confluentia, strato pseudostromatico mox limitato mox effuso lignum nigricante tecta, minuta fragilia globosa atra, ostiolo brevi saepe occulto; asci cylindracei, stipite brevi, octospori 78—88 longi, 7—8 lati; sporae monostichae ovoideae utrinque late rotundatae unicellulares 10—14 longae, 6—7 latae fuscae. Paraphyses simplices.

Austria: pr. Lofer, Salisburgi. In ramulis deciduis Clematidis Vitalbae.

Augusto. leg. G. von Niessl.

Obs.: Dieser Pilz kommt wie A. Xylostei in sehr verschiedenen Wachsthumsformen vor. Oft, besonders in der Rindensubstanz, stehen die Perithecien einzeln oder in kleinen Gruppen, manchmal, namentlich an entrindeten Stücken, wo sie im Holz nisten, sind sie dicht gesellig und das dieselben deckende Stratum fliesst zu einer mehr oder weniger ausgebreiteten papierdünnen, stromaähnlichen Kruste zusammen. In dieser Form ist vorliegender Pyrenomycet einem Anthostoma ähnlich, z. B. A. Schmidtii, mit dem die Dimensionen der Schläuche und Sporen, nicht aber die Perithecien übereinstimmen; es fehlt jedoch stets die characteristische Saumschicht des Stromas.

Anthostomella limitata Sacc., Syll. I. p. 284, welche mit der Rindenform in Vergleich käme, hat nach der Beschreibung Sporen, welche beiderseits oder an einem Ende spitzlich (acutiusculae), während sie hier breit abgerundet sind.

G. v. Niessl.

Fig. 99

Eutypa scoparia (Schwein.) G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 36: no. 3555, 1886 [Hedwigia **25**(6): 259, 1886].
≡ *Sphaeria scoparia* Schwein., Schriften Naturf. Ges. Leipzig **1**: 37, 1822.
≡ ***Peroneutypa scoparia*** (Schwein.) Carmarán & A.I. Romero, in Carmarán, Romero & Giussani, Fungal Diversity **23**: 84, 2006.
[Full synonymy, see: http://www.speciesfungorum.org/GSD/GSDspecies.asp?RecordID=500713; https://www.mycobank.org/MB/500713.]
Notes: This is a new combination validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3555 (fig. 100).

Rabenhorst-Winter, Fungi europaei.

3555. Eutpya scoparia (Schweinitz).

Sphaeria scoparia Schwein., Synops. Fungor. Carol. pag. 37. No. 101.

America borealis: Prope Perryville, Missouri. Ad truncos emortuos Ulmi fulvae Lin.

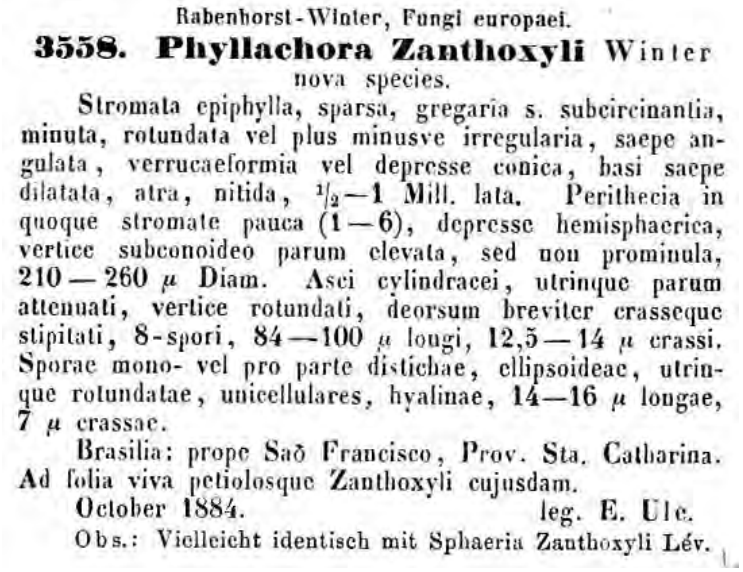
Januar 1884. leg. C. H. Demetrio.

Obs.: Es ist nicht ganz sicher, ob diese Bestimmung, die ich Ellis verdanke, richtig ist. Doch wird dies auch kaum festzustellen sein, da Ellis schreibt: „Sec. Stevenson in Supplement to Cooke's Valsei the specimen of Sphaeria scoparia in herb. Schweinitz is „barren". W.

Fig. 100

Phyllachora zanthoxyli G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 36: no. 3558, 1886 [Hedwigia **26**(1): 34, 1887], nom. illeg. (Art. 53.1), non *Phyllachora zanthoxyli* (Lév.) Cooke. 1885.
≡ ***Phyllachora winteri*** Sacc. & P. Syd., Syll. fung. **14**(2): 673, 1899.
= *Trabutia zanthoxyli* Chardón, in Seaver & Chardón, Scient. Surv. P. Rico **8**(1): 55, 1926.

Notes: This is an illegitimate new species name published on the label of Winter, Fungi Eur. Extraeur. Exs. 3558 (fig. 101).



Rabenhorst-Winter, Fungi europaei.

3558. Phyllachora Zanthoxyli Winter

nova species.

Stromata epiphylla, sparsa, gregaria s. subcircinantia, minuta, rotundata vel plus minusve irregularia, saepe angulata, verrucaeformia vel depresse conica, basi saepe dilatata, atra, nitida, ½—1 Mill. lata. Perithecia in quoque stromate pauca (1—6), depresse hemisphaerica, vertice subconoideo parum elevata, sed non prominula, 210—260 μ Diam. Asci cylindracei, utrinque parum attenuati, vertice rotundati, deorsum breviter crasseque stipitati, 8-spori, 84—100 μ longi, 12,5—14 μ crassi. Sporae mono- vel pro parte distichae, ellipsoideae, utrinque rotundatae, unicellulares, hyalinae, 14—16 μ longae, 7 μ crassae.

Brasilia: prope Saõ Francisco, Prov. Sta. Catharina. Ad folia viva petiolosque Zanthoxyli cujusdam.

October 1884. leg. E. Ule.

Obs.: Vielleicht identisch mit Sphaeria Zanthoxyli Lév.

Fig. 101

Fusicladium punctiforme G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 36: no. 3582, 1886 [Hedwigia **26**(1): 34, 1887].

≡ *Cercosporidium punctiforme* (G. Winter) Deighton, Mycol. Pap. **112**: 45, 1967.

≡ *Passalora punctiformis* (G. Winter) Poonam Srivast. [as "*punctiforme*"], J. Living World **1**(2): 117, 1994, nom. illeg. (Art. 53.1), non G.H. Otth, 1969.

≡ *Passalora winteriana* U. Braun, Nova Hedwigia **55**(1-2): 214, 1992.

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3582 (fig. 102). The generic affinity of this species is still unresolved and requires phylogenetic analyses.

Rabenhorst-Winter, Fungi europaei.

3582. Fusicladium punctiforme Winter

nova spec.

Caespituli hypophylli, minutissimi, plerumque dense gregarii, maculas minutas, angulatas, a nervis folii limitatas, ½—1 Mill. latas, sparsas s. gregarias et confluentes, fuligineas, demum cinerascentes formantes, punctiformes, atri. Hyphae fasciculatae, erectae, saepe flexuosae torulosaeque, denticulatae, remote septatae, fuscidulae, usque 150 μ longae, 7 μ crassae. Sporae numerosae, elongato-oblongae vel subcylindricae, utrinque parum attenuatae rotundataeque, medio uniseptatae, vix constrictae, hyalinae, demum dilutissime fuscescentes, 27—38 μ longae, 7—9 μ crassae.

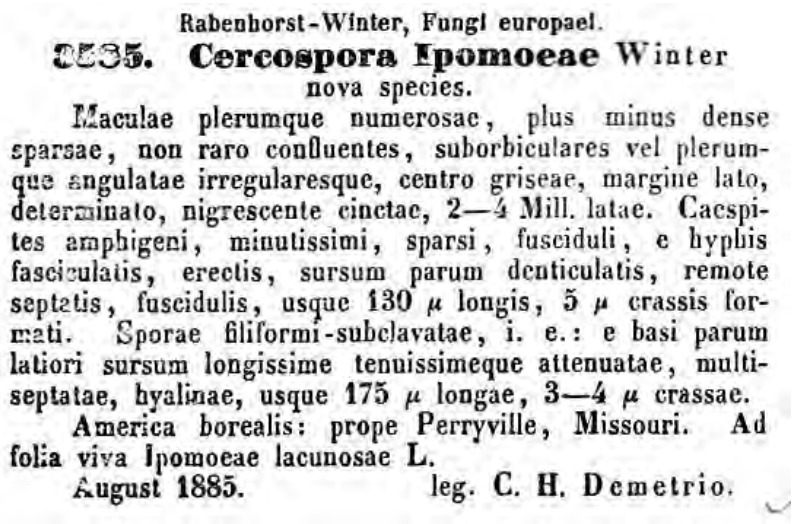
America borealis: Prope Perryville, Missouri. Ad folia viva Ziziae integerrimae DC.

Aestate 1885. leg. C. H. Demetrio.

Fig. 102

Cercospora ipomoeae G. Winter, Rabenh. Fungi Eur. Extraeur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 36: no. 3585, 1886 [Hedwigia **26**(1): 34, 1887].

Notes: This is a new species name validly published on the label of Winter, Fungi Eur. Extraeur. Exs. 3585 (fig. 103).



Rabenhorst-Winter, Fungi europaei.

2535. **Cercospora Ipomoeae** Winter
nova species.

Maculae plerumque numerosae, plus minus dense sparsae, non raro confluentes, suborbiculares vel plerumque angulatae irregularesque, centro griseae, margine lato, determinato, nigrescente cinctae, 2—4 Mill. latae. Caespites amphigeni, minutissimi, sparsi, fusciduli, e hyphis fasciculatis, erectis, sursum parum denticulatis, remote septatis, fuscidulis, usque 130 μ longis, 5 μ crassis formati. Sporae filiformi-subclavatae, i. e.: e basi parum latiori sursum longissime tenuissimeque attenuatae, multiseptatae, hyalinae, usque 175 μ longae, 3—4 μ crassae.

America borealis: prope Perryville, Missouri. Ad folia viva Ipomoeae lacunosae L.

August 1885. leg. C. H. Demetrio.

Fig. 103

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