

Annotated list of taxonomic novelties published in “Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda” Cent. 1 to 26 issued by G. L. Rabenhorst between 1859 and 1881 (first part – Cent. 1 to 10)

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Abstract: Braun, U. & Bensch, K. 2019: Annotated list of taxonomic novelties published in “Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda” Cent. 1 to 26 issued by G. L. Rabenhorst between 1859 and 1881 (first part – Cent. 1 to 10). *Schlechtendalia* **36**: 1–60.

New taxa and new combinations published by G. L. Rabenhorst in “Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum, Editio Nova, Series Secunda” Cent. 1 to 26 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 is discussed in more detail. The first part of this treatment comprises taxonomic novelties in Cent. 1 to 10. *Uredo tussilaginis* (= *Coleosporium tussilaginis*) is designated as lectotype species for the genus *Erannium*. This genus is a heterotypic synonym of *Coleosporium*.

Zusammenfassung: Braun, U. & Bensch, K. 2019: Kommentierte Liste taxonomischer Neuheiten publiziert in „Fungi Europaei Exsiccati, Klotzschii Herbarium Vivum Mycologicum Continuato, Editio Nova, Series Secunda“ Cent. 1 bis 26, herausgegeben von G. L. Rabenhorst zwischen 1859 und 1881 (erster Teil, Cent. 1 bis 10). *Schlechtendalia* **36**: 1–60.

Neue Taxa und Kombinationen publiziert von G. L. Rabenhorst in “Klotzschii Herbarium Vivum Mycologicum, Editio Nova” Cent. 1 bis 26 in der zweiten Hälfte des 19. Jahrhunderts werden aufgelistet und annotiert. Referenzangaben, Zitate und die Synonymie werden korrigiert falls notwendig. Die Nomenklatur einiger Taxa wird detaillierter besprochen. Der erste Teil dieser Bearbeitung umfasst Cent. 1 bis 10. *Uredo tussilaginis* (= *Coleosporium tussilaginis*) wird als Lectotypusart der Gattung *Erannium* ausgewählt. Diese Gattung ist ein heterotypisches Synonym von *Coleosporium*.

Key words: Fungi, nomenclature, exsiccata.

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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, followed by Cent. 27–36 (1881–1886) published by G. Winter. 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. 30.2 (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]. 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 base for the present nomenclatural study and reassessment of names. Cent. 10 is not preserved at HAL. Scans of labels with taxonomic novelties from Cent. 10 have been prepared on the basis of duplicates preserved at the herbarium in Berlin (B) and Munich (M). 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. 1

Polyporus nigricans Lasch, in Rabenh., *Fungi Eur. Exs.* (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 15, 1859 [*Bot. Zeitung* 17: 295, 1859; *Flora* 42: 433, 1859], nom. illeg. (Art. 53.1).

Notes: This name was published with a description, but it is a homonym of *Polyporus nigricans* Fr., 1821, and synonymous with *Trametes versicolor* (L.) Lloyd (fig. 1).



Fig. 1

Polyporus rugulosus Lasch, in Rabenh., *Fungi Eur. Exs.* (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 16, 1859 [*Bot. Zeitung* 17: 295, 1859; *Flora* 42: 434, 1859], nom. illeg. (Art. 53.1).

Notes: This name was published with a description, but it is a homonym of *Polyporus rugulosus* Lév., 1844 (fig. 2).



Fig. 2

Peziza avellanae Lasch, in Rabenh., *Fungi Eur. Exs.* (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 28, 1859 [*Bot. Zeitung* 17: 296, 1859; *Flora* 42: 434, 1859].

≡ *Pezizella avellanae* (Lasch) Fuckel, *Jahrb. Nassauischen Vereins Naturk.* 23-24: 299, [1869-70] 1870.

Notes: This is a valid species name with a description on the label of *Fungi Eur. Exs.* 28 (fig. 3).



Fig. 3

Peziza pineti var. *abietis* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 31, 1859 [Bot. Zeitung 17: 296, 1859; Flora 42: 434, 1859].
 Notes: This is a valid variety name with a diagnosis on the label of Fungi Eur. Exs. 31 (fig. 4).



Fig. 4

Sphaeria chlorospora Ces., Erb. Critt. Ital., Ser. 1, Fasc. 2: no. 296, 1859 [Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 48, 1859; Bot. Zeitung 17: 296, 1859; Flora 42: 434, 1859].
 = *Venturia chlorospora* (Ces.) P. Karst., Bidr. Känn. Finl. Nat. Folk 23: 189, 1873.
 Notes: This species name was published on the label of Fungi Eur. Exs. 48 with a description and illustration (fig. 5). However, until now it was not possible to clarify the exact dates when the two exsiccata were issued.



Fig. 5

Sphaeria schistostroma Duby ex Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 53, 1859 [Bot. Zeitung **17**: 303, 1859; Flora **42**: 435, 1859].

≡ *Fenestella schistostroma* (Duby ex Rabenh.) Cooke, Grevillea **14**(no. 70): 48, 1885.

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 53 (fig. 6).

Rabenhorst, Fungi europaei.
53. Sphaeria schistostroma (Dub. ined.)
 immersa demum erumpens epidermide cincta, receptaculis
 5–15 aggregatis ovatis verticalibus inclinatisve stromate
 nigro inaequali primum compacto demum in fragmenta
 plura difflisso tectis, ostioliis vix prominulis saepe obsoletis,
 thecis cylindrico-elongatis rigidis paraphyses filiformes tenuis-
 simas superantibus sporas 1-seriales ovoideo globosas hyali-
 nas primo 1-demum 3-septatas et tandem parenchymaticas
 et tum intensius lutescentes includentibus. — Ad ramos
 exsiccatos Ribis aurei, in hortis circa Genevam. — Nomen
 specificum a stromate et σχίζον fissum compositum.
 Inter Obvallatas Fr. et in vicinio S. tesseræ collocanda;
 leg. Duby.

Fig. 6

Dothidea lycii Duby ex Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 55, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 435, 1859].

≡ *Dothidea lycii* Duby, Mém. Soc. Phys. Hist. Nat. Genève **15**: 198, 1859.

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 55 (fig. 7). Rabenhorst (l.c.) published this species with the note “Dub. ined.” suggesting that his publication in the exsiccata appeared at first, before Duby’s publication in the journal.

Rabenhorst, Fungi europaei.
55. Dothidea Lycii (Dub. ined.) subcutanea
 minuta sparsa demum erumpens sphaerica aut ovata epi-
 dermide dilacerata cincta, primum aurantiaca, demum fus-
 cescens et etiam nigricans, ostioliis nullis; sparmogoniis e
 cellulis primo numero-is minutissimis compositis; pustulis
 thecasporis e cellulis parvis 4–6 compositis, thecis oblongo-
 clavatis sporas oblongas fuscas 3-septatas in parte superiori
 2-seriales foventibus paraphysibus longioribus circumdatis.
 — Ad ramos emortuos Lycii europaei in hortis Genevae,
 leg. Duby.

Fig. 7

Isaria sulphurea Fiedl., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 60, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 435, 1859].

≡ *Chrysosporium sulfureum* (Fiedl.) Oorschot & Samson, in Van Oorschot, Stud. Mycol. **20**: 28, 1980.

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 60 (fig. 8).

Rabenhorst, Fungi europaei.
60. Isaria sulphurea Fiedl. Mspt. et in litt.
 ad Rabenh.
 I. (ostophila) simplex erecta gregaria oblonga s. clavata,
 1–3''' longa, sulphurea, farinoso-floccosa; sporidia rotunda
 simplicia hyalina.
 Ad ossa putrida prope Doemitz (Flor. Megapol.) leg.
 Dr. Fiedler.

Fig. 8

Arthrobotryum broomei Rabenh. [as “broomii”], Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 65, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 435, 1859].

Notes: This is a valid species name with a diagnosis on the label of Fungi Eur. Exs. 65 (fig. 9).



Fig. 9

Fusarium betae Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 69, 1859 [Bot. Zeitung 17: 304, 1859; Flora 42: 435, 1859], nom. nud.

≡ *Fusarium betae* Rabenh. ex A.B. Frank, Krankh. Pflanz. (Breslau): 601, 1880.

≡ *Cercospora betae* (Rabenh. ex A.B. Frank) Sacc., Syll. fung. 10: 637, 1892.

= *Cercospora beticola* Sacc., Nuovo Giorn. Bot. Ital. 8(2): 189, 1876.

Notes: This species name is a nom. nud., published without description on the label of Fungi Eur. Exs. 69 (fig. 10). *Fusisporium betae* Desm. was cited with a question mark, i.e., it was not cited as “basonym” for a combination. Frank (1880: 601) cited Rabenhorst’s name, *Fusarium betae*, and added a diagnosis, i.e., he discussed differences between *Cercospora beticola* Sacc. and *F. betae*. Frank (l.c.) supposed that the latter species might belong to *Cercospora* [“Dagegen ist ein in dem Rabenhorstschen Exsiccaten unter dem Namen *Fusarium Betae* Rabenh. ausgegebener Pilz, wiewohl er eine *Cercospora* zu sein scheint, abweichend” (On the other hand, a fungus issued in Rabenhorst’s exsiccata under the name *Fusarium Betae* Rabenh., which seems to a *Cercospora*, is different)]. In any case, the name “*Cercospora betae*”, sometimes ascribed to Frank (l.c.), was not introduced in this work.



Fig. 10

Illosporium aurantiacum Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 74, 1859 [Bot. Zeitung 17: 304, 1859; Flora 42: 436, 1859].

≡ *Erythricium aurantiacum* (Lasch) D. Hawksw. & A. Henrici, Field Mycology 16(1): 16, 2015.

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 74 (fig. 11).



Fig. 11

Peronospora dentariae Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 86, 1859 [Bot. Zeitung 17: 304, 1859; Flora 42: 436, 1859].

≡ *Hyaloperonospora dentariae* (Rabenh.) Voglmayr, Mycol. Progr. 13(1): 140 [2014] 2013.

Notes: This is a valid species name published with a diagnosis on the label of Fungi Eur. Exs. 86 (fig. 12).



Fig. 12

Puccinia cirsii Lasch in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 89, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 89 (fig. 13).

Rabenhorst, Fungi europaei.
89. Puccinia Cirsii Lch.
P. sporis breviter pedicellatis, obtusis, atrobrunneis.
 Ad folia Cirsii oleracei pr. Driesen leg. Lasch.

Fig. 13

Uredo cirsii Lasch in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 90, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].

≡ *Puccinia cirsii* Lasch in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 89, 1859

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 90 (fig. 14).

Rabenhorst, Fungi europaei.
90. Uredo Cirsii Lch.
U. sporis globosis, saturate-cinnamomeo-fuscescentibus.
 Ad folia Cirsii oleracei pr. Driesen leg. Lasch.

Fig. 14

Uromyces inaequaltus Lasch in Rabenh. (as “*inaequalta*”), Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 94, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 94 (fig. 15).

Rabenhorst, Fungi europaei.
94. Uromyces inaequalta Lch.
acervis atrobrunneis, sporis subrotundis obovatisque, aliis sessilibus, aliis breviter v. elongato-pedicellatis.
 In foliis Silenes nutantis prope Driesen leg. Lasch.

Fig. 15

Gloeosporium veronicarum Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 97, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859], nom. inval. (Art. 36.1).

≡ *Gloeosporium veronicarum* Ces. ex Sacc., Syll. fung. **3**: 710, 1884.

≡ *Discogloeum veronicarum* (Ces. ex Sacc.) Petr., Ann. Mycol. **21**(3/4): 285, 1923.

Notes: This name was not validly published in Fungi Eur. Exs. 97 since it was not accepted in this publication (fig. 16, “pro inter.” = ad int.).

Rabenhorst, Fungi europaei.
97. Gloeosporium Veronicarum.
 Ces. hb. pro inter.
Ulterius examinandum; cirrhi nimis fugaces pro genere. Ex sporarum forma et compositione, ex cubiculo hypophleode etc. Gloeosporia propinquat; sed tenuissima videtur mucilago sporas adglutinans.
 In fol. adhuc vigentibus Veron. officinalis, in Valle Andurnensi (Pedem., prov. Bugellae): autumni tempore leg. Cesati.

Fig. 16

Gloeosporium andurnense Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 98, 1859 [Bot. Zeitung **17**: 304, 1859; Flora **42**: 436, 1859].

≡ *Marssonina andurnensis* (Ces.) Magnus, Hedwigia **45**: 89, 1906.

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 98 (fig. 17).



Fig. 17

Caeoma subapiculosum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 1: no. 99, 1859 [Bot. Zeitung 17: 304, 1859; Flora 42: 436, 1859].

Notes: This is a valid species name with a description on the label of Fungi Eur. Exs. 99 (fig. 18).



Fig. 18

Cent. 2

Sphaerella myriadea (DC.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 149, 1860 [Bot. Zeitung 18: 174, 1860; Flora 43: 746, 1860].

≡ *Sphaeria myriadea* DC., in de Candolle & Lamarck, Fl. franç., Edn 3 (Paris) 5/6: 145, 1815.

≡ *Sphaerulina myriadea* (DC.) Sacc., Michelia 1(4): 399, 1878.

Notes: This is a valid combination published in Fungi Eur. Exs. 149 (fig. 19).



Fig. 19

Sphaerella conglomerata (Wallr.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 150, 1860 [Bot. Zeitung 18: 174, 1860; Flora 43: 746, 1860].

≡ *Sphaeria conglomerata* Wallr., Fl. crypt. Germ. (Norimbergae) 2: 814, 1833.

≡ *Mycosphaerella conglomerata* (Wallr.) Lindau, in Engler & Prantl, Nat. Pflanzenfam., Teil. I (Leipzig) 1(1): 424, 1897.

Notes: This is a valid combination published in Fungi Eur. Exs. 150 (fig. 20).

Rabenhorst, Fungi europaei.
150. Sphaerella conglomerata (Wallr.)
 Rabenh.
 Forma: Alnicola!
Sphaeria conglomerata a) Alni Desmaz. Crypt. de Fr.
 N. 1449.
 Oestrich ad Rhenum in fol. Alni leg. L. Fuckel.

Fig. 20

Lophodermium laricinum Duby ex Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 158, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].

Notes: This species was validly published with a description in Fungi Eur. Exs. 158 (fig. 21).

Rabenhorst, Fungi europaei.
158 Lophodermium laricinum (Dub.
 mém. inéd.)
 Sparsum minutum emergens laeve sed epidermide matricis
 tenuissima subtilime lineolatum atro-nitidum ovatum con-
 vexo-cristatum, labiis tenuibus elavatis conniventibus sed
 lineam longitudinalem angustissimam convexam relinquen-
 tibus, thecis elongato-clavatis non pedicellatis, sporis fili-
 formibus sporulas globosas 6–7 foventibus post disruptionem
 rectiusculis paulo divergentibus.
 Ad folia sicca decolorata Laricis prope Cormayeur, ad radices
 australes Mont-blanc — Minutissimum ab $\frac{1}{2}$ – $\frac{1}{10}$ millimetrum
 longum.

Fig. 21

Combosira (Fr.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 159, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].

≡ *Asteroma* [unranked] *Combosira* Fr., Summa veg. Scand., Sectio posterior (Uppsala): 425, 1849.

Type species: *Sphaeria reticulata* DC. (≡ *Guignardia reticulata* (DC.) Aa).

= *Guignardia* Viala & Ravaz, Bull. Soc. Mycol. Fr. **8**(2): 63, 1892, nom. cons. (Art. 14).

Notes: Fries (l.c) introduced *Asteroma* [unranked] *Combosira* with a brief description. He listed three *Asteroma* spp. under *Asteroma* [unranked] *Combosira*, including *A. reticulata*. In Fungi Eur. Exs. 159 (fig. 22), Rabenhorst introduced the genus name *Combosira* as combination based on *Asteroma* [unranked] *Combosira* and confined it to *Combosira reticulata*, which represents an indirect typification.

Rabenhorst, Fungi europaei.
159. Combosira reticulata (De C.) Rabenh.
 Mspt. Fr. Summ. 425.
Sphaeria reticulata D. C. Flor. fr. 138. Rabenh. Handb.
 I. 188. *Asteroma reticul.* Chev. Desmaz. Crypt. de Fr.
 Ed. I. N. 1339. Ed. II. N. 739.
 In foliis Convall. multifi. ad Olaszinum (Wallendorf in der
 Zips) Septbr. 1859 leg. Kalchbrenner.

Fig. 22

Combosira reticulata (DC.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 159, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].

≡ *Sphaeria reticulata* DC., in de Candolle & Lamarck, Fl. franç., Edn 3 (Paris) **5/6**: 138, 1815.

≡ *Asteroma reticulata* (DC.) Chevall., Fl. gén. env. Paris (Paris) **1**: 447, 1826.

≡ *Guignardia reticulata* (DC.) Aa, Stud. Mycol. **5**: 23, 1973.

Notes: The combination *C. reticulata* was validly published in Fungi Eur. Exs. 159 (fig. 22).

Cryptosporium sorbi Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 160, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860], nom. nud.

≡ *Septoria sorbi* Lasch, in Rabenh., Klotzschii Herb. Viv. Mycol., Cent. 5: no. 459, 1843 [and Bot. Zeitung **2**: 172, 1844], nom. nud.

≡ *Septoria sorbi* Fuckel [as (Ces.) Fuckel], Jahrb. Nassauischen Vereins Naturk. **23–24**: 390, [1869–1870] 1870, nom. nud.

≡ *Phoma sorbi* Sacc. [as “(Lasch) Sacc.”], Syll. Fung. **3**: 529, 1884.

≡ *Septoria sorbi* (Sacc.) Sacc. [as “Sacc.”], Bull. Soc. Mycol. Fr. **5**(4): 121, 1890.

Pestalotia callunae Ces. (as “*Pestalozzia*”), in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 161, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].

Notes: This species was validly published with a description in Fungi Eur. Exs. 161 (fig. 23).



Fig. 23

Stilbum xanthopus Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 170, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].

≡ *Stilbella xanthopus* (Rabenh.) Lindau, Rabenh. Krypt.-Fl., Edn 2 (Leipzig) **1.9**: 300, 1908.

Notes: This species was validly published with a description in Fungi Eur. Exs. 170 (fig. 24).



Fig. 24

Hormodendrum farinosum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 173, 1860 [Bot. Zeitung **18**: 174, 1860; Flora **43**: 747, 1860].

≡ *Ramularia farinosa* (Bonord.) Sacc., Syll. fung. (Abellini) **4**: 206, 1886.

= *Ramularia calcea* Ces., in Rabenh., Klotzschii Herb. Viv. Mycol., Cent. 17: no. 1681, 1852.

Notes: This species was validly published with a description in Fungi Eur. Exs. 173, supplemented by a drawing (fig. 25 A, B). *Hormodendrum farinosum* is a synonymy of *Ramularia calcea* (see Braun 1998: 112).

Rabenhorst, Fungi europaei.
173. Hormodendrum Bonord. Allg. Mycol.
 p. 76.
H. farinosum nov. sp.
 Sporis ovatis simplicibus haud septatis, ramis primariis rudimentariis, secundariis articulatis, articulis oblongis bipunctatis.
 Acervuli farinoso-floccosi irregulares in foliis vivis Symphiti off.; in Guesthalia leg. Bonorden.

Fig. 25 A (text)



Fig. 25 B (illustration)

Torula bulbiger Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 175, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860].

Notes: This species was validly published with a description in Fungi Eur. Exs. 175 (fig. 26).

Rabenhorst, Fungi europaei.
175. Torula bulbiger Bonord.
 (Acrosporium bulbigerum Nees. Oidium Fries.)
 Sporis ovatis s. oblongo-ovatis, 4–6 concatenatis, hyalinis albis, hyphis triseptatis, basi bulbosis, suffultis; mycelio ramoso, septato et repente.
 Horford in foliis Graminum leg. Bonorden.
 Die Hyphen erheben sich im rechten Winkel von dem kriechenden Mycelium, haben an der Basis eine erweiterte Stelle (bulbillus), dann folgt eine, oft ganz cylindrische Strecke mit 2–3 Septen und auf dieser stehen 4–6 Sporen kettenförmig verbunden, welche oval, reif ganz durchsichtig, unreif mit kleinen Zellen oder Bläschen gefüllt sind. Die reifen Sporen enthalten einen festen Kern, welcher durch das Verschmelzen dieser kleinen Zellen entsteht.

Fig. 26

Erannium Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860, Abh. Naturf. Ges. Halle **5**: 182, 1860].

Type species (designated here, MycoBank, MBT385607): *Uredo tussilaginis* Pers. (= *Coleosporium tussilaginis* (Pers.) Tul.).

Notes: The genus name *Erannium* was at first validly published in Fungi Eur. Exs. 176 (fig. 27). Bonorden (1860: 182) repeated the description with reference to the earlier publication in the exsiccata. Bonorden's (l.c.) paper was at first published in the journal "Abhandlungen der

Naturforschenden Gesellschaft zu Halle” and later as separately distributed reprint. Bonorden (l.c.) already cited the publication in Rabenhorst’s exsiccatum, suggesting that the description in Fungi Eur. Exs. 176 appeared at first. The following species were assigned to *Erannium*:

Erannium aurantiacum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860, Abh. Naturf. Ges. Halle **5**: 183, 1860], nom. superfl., Art. 52.1 [*Uredo* (as “*Caeoma*”) *tussilaginis* Pers. (= *Coleosporium tussilaginis* (Pers.) Tul.) was cited as synonym; Bonorden (l.c.) cited “*Caeoma tussilaginis* Pers.” which represents an indirect reference to *Uredo tussilaginis* and constitutes the new combination: *Caeoma tussilaginis* (Pers.) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860].



Rabenhorst, Fungi europaei.
176. Erannium Bonord. nov. genus!
 Receptaculum sporis clavatis compositum, cystidiis haud cinctum, demersum; sporae exogae, primum pedicellatae dein secedentes et conglutinatae; acervi primum epidermide tecti, tremellosi, subconvexi, aggregati, saepe confluentes, dein denudati granulosi, medio depressi; mycelio ramoso laete colorato.
Erannium aurantiacum Bonord.
 (*Caeoma Tussilaginis* Pers.)
 Sporis ovatis irregularibus saepe pleurogynis, obscure aurantiis, primum pedicellatis, dein secedentibus; acervis primum clausis, convexis aurantiis, dein nudis, tremellosis.
 Hab. in foliis Sonchi et Tussilaginis.
 Bei dieser Art fallen die Sporen, meist mit kurzen Stielen, welche dick, unten rund abgestumpft sind, ab. Die Stiele verschwinden bei den reifen Sporen, werden zum Episorium verwendet, so daß die reifen Sporen stiellos und größer sind. Es ist dies Eigenthümlichkeit der Gattung. Ich kenne noch 3 andere Arten: *E. segetum* Myk. F. 50. *E. aureum* mihi und *E. miniatum* (*Caeoma miniatum* aut. p. p.), welcher letztere Pilz mit *Coleosporium miniatum* mihi und mit *Physonema aureum* mihi zusammengeworfen wird.
 Bonorden.

Fig. 27

Erannium aureum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860], nom. nud.

≡ *Erannium aureum* Bonord., Abh. Naturf. Ges. Halle **5**: 183, 1860, nom. superfl., Art. 52.1 [*Uredo tremellosa* F. Strauss and *Caeoma rhinanthacearum* (DC.) Schldtl. were cited as synonyms].

Erannium miniatum (Pers.) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860, Abh. Naturf. Ges. Halle **5**: 183, 1860].

≡ *Uredo miniata* Pers., Syn. meth. fung. (Göttingen) **1**: 216, 1801.

≡ *Physoderma miniatum* (Pers.) Bonord., Handb. Mykol.: 53, 1851.

Erannium segetum (Bonord.) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860, Abh. Naturf. Ges. Halle **5**: 183, 1860].

≡ *Physoderma segetum* Bonord., Handb. Mykol.: 53, 1851.

The description and illustration of *Erannium* in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 refers to *E. aurantiacum*, a superfluous name based on *Uredo tussilaginis* (= *Coleosporium tussilaginis*), which is proposed to serve as type of the genus.

Puccinia maydis Poetsch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 176, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860], nom. nud.

Cystopus sphaericus (Wallr.) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 186, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 748, 1860].

≡ *Erysibe sphaerica* Wallr., Fl. crypt. Germ. (Norimbergae) **2**: 193, 1833.

Notes: The combination *C. sphaericus* was validly published in Fungi Eur. Exs. 186 (fig. 28).

Rabenhorst, Fungi europaei.
186. Cystopus sphaericus Bonord.
 Syn. *Erysibe sphaerica* Wallr.
 Sporis globosis primum concatenatis haud raro stylo brevissimo interceptis, dein liberis; sporisoriis curtis subcylindricis; acervis irregularibus albis nitidis.
 In *Thlaspi bursa p.* in Guestphalia leg. Bonorden.

Fig. 28

Coleosporium aureum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 187, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].

Notes: This is a validly published species with a description in Fungi Eur. Exs. 287 (fig. 29).

Rabenhorst, Fungi europaei.
187. Coleosporium aureum Bonord.
 Syn. *Caeoma Compransor* Schlecht.?
 Sporis majoribus globosis aureis; acervis parvis rotundis hypogenis et epidermide tectis aurantiacis, dein denudatis aureis; maculis oppositis viride-flavis.
 Hab. in foliis *Sonchi* et *Tussilaginis* in Guestphalia; leg. Bonorden.

Fig. 29

Aecidium candidum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 188, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860], nom. illeg. (Art. 52.1), non Pers., 1792.

Notes: This is a homonym. Furthermore, Bonorden (in Rabenhorst, l.c.) cited *Aecidium phaseolorum* Wallr. as synonym.

Epitea fenestrata Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 189, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].

= *Melampsora ribesii-epitea* Kleb., Krypt.-Fl. Brandenburg (Leipzig) **5**: 798, 1914.

Notes: This is a validly published species with a description in Fungi Eur. Exs. 189 (fig. 30). Type material of this species has been examined, agrees well with *Melampsora ribesii-epitea*, and represents an older name for this species.

Rabenhorst, Fungi europaei.
189. Epitea Leveille.
 Char. gen. Sporae simplices primum pedicellatae mox liberae, ex hypostromate celluloso-carnoso provenientes, cystidiis pedicellatis cinctae, primum epidermide tectae, dein denudatae.
Epitea fenestrata Bonord. (nov. sp.)
 (*Uredo gyrosa* Reb.?)
 Sporis globosis s. ovato-globosis (aqua superfusus sub microscopio punctato-umbrinis, siccis luteo-umbrinis) breviter pedicellatis; cystidiis hyalinis, magnis, longe pedicellatis, ampullaeformibus, cavis, quasi fenestratis; hypostromate (mycelio) emergente; acervis rotundis saepe confluentibus et gyrosis.
 Hab. in foliis *Salicis capreae* in Guestphalia; leg. Bonorden.

Fig. 30

Epitea oblonga Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 190, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].

= *Melampsora laricis-populina* Kleb., Z. Pflanzenkrankh. **12**: 43, 1902.

Notes: This is a validly published species with a description in Fungi Eur. Exs. 190 (fig. 31). Type material of this species has been examined, agrees well with *Melampsora laricis-populina*, and represents an older name for this species.

Rabenhorst, Fungi europaei.
190. Epitea oblonga Bonord. nov. sp.
 Sporis oblongis s. oblongo-sphaeroideis, luteo-viridibus, breviter pedicellatis; pedicellis albis; cystidiis hyalinis solidis aut intus moleculis viridibus nonnullis praeditis, ampullaeformibus, mediocribus; acervis rotundis planis pallide flavis, epidermide cinctis, gregariis.
 In fol. Populi in Guesphalia leg. Bonorden.

Fig. 31

Uredo obconica Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 191, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].

Notes: This is a validly published species with a description in Fungi Eur. Exs. 191 (fig. 32).

Rabenhorst, Fungi europaei.
191. Uredo obconica Bonord. (Sp. nova).
 Uredo Lev. Fries. Ch. G.
 Sporae inaequales saepe cohaerentes, in mycelio tenuissimo celluloso sessiles, sub epidermide plantarum nidulantes, eaque rupta diffusae.
 Uredo obconica Bonord.
 Sporis obconicis utrinque obtusis flavidis; acervis minutis, flavis, hypogenis, subplanis; maculis pallidis.
 In foliis Populor. in Guesphalia leg. Bonorden.

Fig. 32

Uredo fusca Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 190, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860], nom. illeg. (Art. 52.1).

Notes: Several *Caecoma* species were cited as synonyms.

Caecoma rufum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 194, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].

Notes: This is a valid species published with a description in Fungi Eur. Exs. 194 (fig. 33).

Rabenhorst, Fungi europaei.
194. Caecoma rufum Bonord. (Sp. nova.)
 (Trichobasis Lev.)
 Sporis globosis et ovatis cohaerentibus rufis (sub microsp. pallide rufis), furfuraceo-granulosis, subpellucidis; pedicellis brevibus deorsum attenuatis; acervis rotundis sparsis, convexis, amphigenis, rufis, macula haud cinctis.
 Hab. in foliis Phaseoli vulgaris, Convolvuli arvensis etc. saepius in consortio cum Caecomate apiculoso, in Guesphalia leg. Bonorden.
 (Hypostromate emergente —)

Fig. 33

Caecoma fuscum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 196, 1860 [Bot. Zeitung **18**: 175, 1860; Flora **43**: 749, 1860].

Notes: This is a valid species published with a description in Fungi Eur. Exs. 196 (fig. 34).

Rabenhorst, Fungi europaei.

196. *Caecoma fuscum* Bonord. (Sp. sejunct.)
(Trichobasis Lev.)

Sporis plerumque ovatis s. ovato-globosis, primum luteo-fuscis, dein fuscis, subfarinaceis; pedicellis cylindricis brevibus, tenuibus; acervis rotundis, sparsis, fuscis, epidermide cinctis.

Hab. in foliis Astragali etc. prope Bielefeld; leg. Bonorden.

Fig. 34

Caecoma rubiginosum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 197, 1860 [Bot. Zeitung 18: 175, 1860; Flora 43: 750, 1860].

Notes: This is a valid species published with a description in Fungi Eur. Exs. 197 (fig. 35).

Rabenhorst, Fungi europaei.

197. *Caecoma rubiginosum* Bonord. (Sp. nov.)
(Trichobasis Lev.)

Sporis subglobosis s. ovatis, laevibus, rubiginosis, magnis, punctatis; pedicellis crassis, deorsum attenuatis; acervis rotundis, amphigenis; hypostromate emergente.

Hab. in foliis Tabae vulgaris, Rumicis, Lithospermi etc. in consortio cum Puccinia clavuligera Wallr. in Guestphalia.

Bei dieser Species wie bei *C. rufum* kann man am leichtesten den Bau des hypostroma untersuchen und erkennen. Bonorden.

Fig. 35

Caecoma flavum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 198, 1860 [Bot. Zeitung 18: 175, 1860; Flora 43: 750, 1860, Abh. Naturforsch. Ges. Halle 5: 228, 1860].

Notes: This is a valid species published with a description in Fungi Eur. Exs. 198 (fig. 36).

Rabenhorst, Fungi europaei.

198. *Caecoma flavum* Bonord. (Sp. nov.)
(Trichobasis Lev.)

Sporis globosis flavis, inaequalibus; episporio crasso hyalino; pedicellis longis deorsum incrassatis; acervis longis s. ellipticis, flavis, pulvinatis, subaurantiis.

Hab. in foliis Graminum in Guestphalia, ubertim.

Gehört zu den wenigen Arten des *Caecoma*, welche mit Wasser benetzt, meist kugliche Sporen haben. Trocken sind die Sporen mehr oval, etwas rauh, gelb durchscheinend, frisch und reif erscheinen sie punctirt und glatt. Von *Caecoma Rubigo* unterscheidet sich diese Art wesentlich dadurch, daß *Rubigo* reiche stachelige und eckig runde Sporen hat, welche nur in sehr kleinen rundlichen oder viereckigen Häufchen vorkommen, dicht gelagert sind und immer rostfarben erscheinen. Benetzt mit Wasser werden die Sporen des *C. Rubigo* dem *C. flavum* ähnlicher, trocken sind sie am Rande dunkel undurchsichtig, in der Mitte gelblich. Bonorden.

Fig. 36

Caecoma phaeum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 2: no. 199, 1860 [Bot. Zeitung 18: 175, 1860; Flora 43: 750, 1860].

Notes: This is a valid species published with a description in Fungi Eur. Exs. 199 (fig. 37).



Fig. 37

Cent. 3

Cantharellus coemansii Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 209, 1860 [Bot. Zeitung **19**: 101, 1861; Flora **44**: 140, 1861].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 209 (fig. 38).

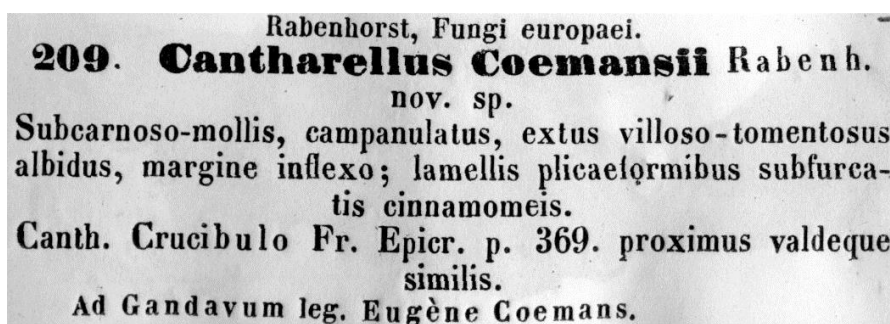


Fig. 38

Peziza rubi var. *herbicola* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 218, 1860 [Bot. Zeitung **19**: 101, 1861; Flora **44**: 141, 1861].

Notes: This is a validly published variety with a description on the label of Fungi Eur. Exs. 218 (fig. 39).



Fig. 39

Peziza retincola Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 225, 1860 [Bot. Zeitung **19**: 101, 1861; Flora **44**: 141, 1861].

= *Trichobelonium kneiffii* (Wallr.) J. Schröt., in Cohn, Krypt.-Fl. Schlesien (Breslau) **3.2**(1-2): 103 [1908] 1893.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 225 (fig. 40).

Rabenhorst, Fungi europaei.
225. *Peziza retincola* Rabenh. nov. sp.
P. tomento late effuso nigro reticulato insidens, sparsa, adpresso-sessilis valde fragilis; cupula ex hemisphaerico-applanata sed marginata, margine flexuosa, extus nigrotomentosa, intus hymenio ceraceo flavo-ochroleuco, carne floccosa alba, ascis clavato-gracilibus, sporis cylindraceis plus minusve curvatis septatis hyalinis. — Stirps junior tota nigra.
 Ad Phragm. communis culmorum emortuorum basin prope Petrocz (Zips) Majo 1860 leg. Kälchbrenner.

Fig. 40

Phacidium minutissimum Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 228, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 141, 1861].

= *Naevula perexigua* (Roberge ex Desm.) K. Holm & L. Holm, Bot. Notiser **131**(1): 100, 1978.
 Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 228 (fig. 41).

Rabenhorst, Fungi europaei.
228. *Phacidium minutissimum* Awd. n. sp.
 Syn. *Sphaeria punctiformis* Auct. p. p.
Peritheciis gregariis minutissimis, innatis, rotundato-angulatis, fuscis, mox in lacinias 3—4 a centro dehiscentibus discumque albidum offerentibus; ascis minutis, clavatis, 8 sporis; sporis ovalibus simplicibus.
 In *Quercus foliorum putrescentium pagina inferiore* prope Ponickau ad Grossenhain (Saxoniae) leg. Auerswald.

Fig. 41

Dermatea cerasi [as "*cerati*"] f. *pycnidifera* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 232, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 141, 1861].

Notes: This is a valid forma published on the label of Fungi Eur. Exs. 232 (fig. 42).

Rabenhorst, Fungi europaei.
232. *Dermatea cerati*. Fr. Sum.
Forma pycnidifera!
Pycnides irregulariter tubulosae vel lageniformes, plures adnatae, eodem Stromate pulvinate insidentes; basidiis tenuibus stylosporio brevioribus: stylosporibus linearibus, utrinque acute attenuatis, curvis, 2—3 vel pluriseptatis, long 0 mm, 04—5. cras. 0 mm., 0035.
 Ad Gandavum leg. Eugène Coemans.

Fig. 42

Dermatea cerasi f. *spermogonifera* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 233, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 142, 1861].

Notes: This is a valid forma published on the label of Fungi Eur. Exs. 233 (fig. 43).



Fig. 43

Cordyceps alutacea (Pers.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 246, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 142, 1861].

≡ *Sphaeria alutacea* Pers., Comm. fung. clav. (Lipsiae): 12, 1797.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 246 (fig. 44).

Cordyceps alutacea var. *albicans* (Pers.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 246, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 142, 1861].

≡ *Sphaeria alutacea* var. *albicans* Pers., Syn. meth. fung. **1**: 2, 1801.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 246 (fig. 44).



Fig. 44

Sphaeria curreyi Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 250, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 142, 1861], nom. illeg. (Art. 53.1), non A. Bloxam ex Curr., 1859.

≡ *Sphaeria apiculata* Curr., Trans. Linn. Soc. London **22**: 326, 1859, nom. illeg. (Art. 53.1), non Wallr., 1833.

≡ *Valsaria apiculata* Sacc. (as "(Curr.) Sacc."), Syll. fung. (Abellini) **1**: 752 1882.

≡ *Apiorhynchostoma apiculata* (Sacc.) Petr., Ann. Mycol. **21**(3-4): 185, 1923.

≡ *Apiorhynchostoma curreyi* E. Müll. (as "(Rabenh.) E. Müll."), in Müller & von Arx, Beitr. Kryptfl. Schweiz **11**(2): 706, 1962.



Fig. 45

Microstoma Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 253, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 143, 1861], nom. illeg., Art. 53.1, non Bernstein, 1852.

= *Cytospora* Ehrenb., Sylv. mycol. berol. (Berlin): 28, 1818.

Notes: The genus name *Microstoma* was published in Fungi. Eur. Exs. 253 (fig. 46), with *Sphaeria microstoma* Pers. as type species. This name is illegitimate and is a heterotypic synonym of *Cytospora*.

Microstoma vulgare Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 253, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 143, 1861].

= *Sphaeria microstoma* Pers., Syn. meth. fung. (Göttingen) **1**: 40, 1801.

= *Valsa microstoma* (Pers.) Fr., Summa veg. Scand., Sectio Post. (Stockholm): 411, 1849.

= *Cytospora populina* (Pers.) Rabenh., Deutschl. Krypt.-Fl. (Leipzig) **1**: 148, 1844.



Fig. 46

Ceratostoma rostratum (Tode) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 256, 1860 [Bot. Zeitung **19**: 102, 1861; Flora **44**: 143, 1861].

= *Sphaeria rostrata* Tode, Fung. mecklenb. sel. (Lüneburg) **2**: 14, 1791 [Fr., Syst. mycol. **2**(2): 473, 1823].

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 256 (fig. 47).

Rabenhorst, Fungi europaei.
256. Ceratostoma rostratum (Tode) Rabenh.
 Mscr.
Sphaeria rostrata Fr. Syst. II. 473. Rabenh. Handb. I. 186.
 In ramulis siccis ad Gandavum leg. Eugène Coemans.
 Obs. Gregarie; ostiolis 2—5 aggregatis, rarius solitariis,
 elongato-cylindraceutis, subcornutis, rectiusculis vel curvatis, apice
 truncatis sporis generis profluentibus numerosissimis in glebulam
 subglobosam sordide flavicantem conglutinatis coronatis. L. R.

Fig. 47

Massaria amblyospora (Berk. & Broome) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 257, 1860 [Bot. Zeitung 19: 102, 1861; Flora 44: 143, 1861].

≡ *Sphaeria amblyospora* Berk. & Broome, Ann. Mag. Nat. Hist., Ser. 2, 9: 322, 1852.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 257 (fig. 48).

Rabenhorst, Fungi europaei.
257. Massaria amblyospora (Berk. in Annals
 and Mag. of Nat. Hist. for April and May 1852 T. X.
 F. 10.) Ries in Fres. Beitr. II. p. 60. T. VII. F. 24.
 Rabenh. Herb. mycol. Ed. I. N. 1830.
 Dresdae, ad ramos dejectos in nemorosis (Gross. Garten)
 Octbr. 1859 leg. ipse.
 Obs. Asci obovato-clavati octospori, sporis subcuneato-brevi
 clavatis trilocularibus fusciscentibus, loculo super. maximo. L. R.

Fig. 48

Sphaeria herbarum f. *euphrasiae* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 258, 1860 [Bot. Zeitung 19: 103, 1861; Flora 44: 143, 1861].

Notes: This is a valid forma published on the label of Fungi Eur. Exs. 258 (fig. 49).

Rabenhorst, Fungi europaei.
258. Sphaeria herbarum Rabenh. Conf.
 Herb. myc. Ed. II. N. 541 et sq.
Forma: Euphrasiae!
Sphaeria herbarum Pers. ex parte!
S. sparsa, minuta, nitida; ostiolo brevi, ascis gracilibus
 octosporis, sporis oblongis v. ellipsoideis, monoblastis, hya-
 linis 9—11 m.m. longis.
 Ad Euphrasiae caules siccos pr. Driesen leg. Lasch.

Fig. 49

Bilimbiospora Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 261, 1860 [Bot. Zeitung 19: 103, 1861; Flora 44: 143, 1861], nom. rej. (Art. 14.6/7).

≡ *Leptosphaeria* Ces. & De Not., Comm. Soc. Crittog. Ital. 1(4): 234, 1863.

Notes: This is a rejected genus name published with a description on the label of Fungi Eur. Exs. 261 (fig. 50).

Bilimbiospora doliolum (Pers.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 261, 1860 [Bot. Zeitung 19: 103, 1861; Flora 44: 143, 1861].

≡ *Sphaeria doliolum* Pers., Icon. Desc. Fung. Min. Cognit. (Leipzig) 2: 39, 1800.

≡ *Leptosphaeria doliolum* (Pers.) Ces. & De Not., Comm. Soc. Crittog. Ital. 1(4): 234, 1863.
 Notes: This is a combination published on the label of Fungi Eur. Exs. 261 (fig. 50).



Fig. 50

Macrosporium atrum (Corda) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 273, 1860 [Bot. Zeitung 19: 103, 1861; Flora 44: 158, 1861].

≡ *Septosporium atrum* Corda, in Sturm, Deutschl. Fl., 3 Abt. (Pilze Deutschl.) 3(12): 33, 1831.
 Notes: This is a valid combination published on the label of Fungi Eur. Exs. 273 (fig. 51).



Fig. 51

Torula rubella Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 281, 1860 [Bot. Zeitung 19: 103, 1861; Flora 44: 158, 1861].

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 273 (fig. 52).



Fig. 52

Cryptosporium viride Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 287, 1860 [Bot. Zeitung 19: 103, 1861; Flora 44: 158, 1861, Abh. Naturforsch. Ges. Halle 8: 129, 1864].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 287 (fig. 53).



Fig. 53

Phacellium Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 288, 1860 [Bot. Zeitung **19**: 103, 1861; Flora **44**: 159, 1861].
 Notes: This is a valid genus name published with a description on the label of Fungi Eur. Exs. 288 (fig. 54).

Phacellium dishonestum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 288, 1860 [Bot. Zeitung **19**: 103, 1861; Flora **44**: 159, 1861].

= *Stysanus alborosellus* Desm., Ann. Sci. Nat., Bot., Sér. 3, **20**: 217, 1853.

≡ *Phacellium alborosellum* (Desm.) U. Braun, Nova Hedwigia **50**(3-4): 509, 1990.

Notes: This is a valid species name published with a description on the label of Fungi Eur. Exs. 288 (fig. 54). Full synonymy, see Braun (1998: 323).



Fig. 54

Peronospora obovata Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 289, 1860 [Bot. Zeitung **19**: 104, 1861; Flora **44**: 159, 1861].

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 289 (fig. 55).



Fig. 55

Peronospora effusa var. *hyoscyami* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 291, 1860 [Bot. Zeitung **19**: 104, 1861; Flora **44**: 159, 1861].

= *Peronospora hyoscyami* de Bary, Ann. Sci. Nat., Bot., Sér. 4, **20**: 123, 1863.

Notes: This is a valid variety published with a description on the label of Fungi Eur. Exs. 291 (fig. 56).

Rabenhorst, Fungi europaei.
291. *Peronospora effusa* Rabenh. ✓
 var. ***Hyoscyami* Rabenh. Mspt.**
 In foliis *Hyoscyami* autumnno provenientius, virentibus, in pagina eorum inferiore maculas tenuiter tomentosas cinereo-fuscas, parum conspicuas formans.
 In pascuis convallium sylvaticorum passim prope Olaszinum Scepusii Septbr. 1859 leg. Kalchbrenner.

Fig. 56

Epitea obovata Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 294, 1860 [Bot. Zeitung **19**: 104, 1861; Flora **44**: 160, 1861].

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 294 (fig. 57).

Rabenhorst, Fungi europaei.
294. *Epitea obovata* Bonord. Mspt.
 Sporibus mixtis plerumque obovatis s. cuneiformibus (saepe deorsum in petiolum quasi prolongatis) aureis, nonnullis subglobosis; cystidiis clavatis curtis, introrsum flexis; acervis minimis aggregatis aureis.
 In foliis Rosarum in Guestphalia leg. Bonorden.

Fig. 57

Caecoma rubrum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 299, 1860 [Bot. Zeitung **19**: 104, 1861; Flora **44**: 160, 1861].

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 299 (fig. 58).

Rabenhorst, Fungi europaei.
299. *Caecoma rubrum* Bonord. Sp. nov. Mspt.
 Sporibus vesiculosis globosis cohaerentibus, extus punctato-granulosis, sordide rubris; pedicellis tenuissimis cylindricis; acervis clausis viride-rubris nitidisque, apertis sordide rubris, convexis, epidermide rupta cinctis.
 Hab. in foliis Mentharum in Guestphalia.
 Die Stiele kann man bei dieser Species, deren Sporen wie eine Uredo erscheinen, nur dann wahrnehmen, wenn man einen geschlossenen acervulus mit einem Messer fein zerhackt; die mit einem Messer abgestreiften Sporen sind immer ohne Stiel.

Fig. 58

Crocysporium fallax Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 3: no. 300, 1860 [Bot. Zeitung **19**: 104, 1861; Flora **44**: 160, 1861].

≡ *Ovularia fallax* (Bonord.) Sacc., Syll. fung. **4**: 141, 1886.

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 300 (fig. 59). It represents an asexual morph of a powdery mildew (Erysiphales), probably *Erysiphe baeumleri* (Magnus) U. Braun & S. Takam. (see Braun 1998: 287).



Fig. 59

Cent. 4

Agaricus typhae Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 306, 1861 [Bot. Zeitung **19**: 294, 1861].

≡ *Psathyrella typhae* (Kalchbr.) A. Pearson & Dennis, Trans. Brit. Mycol. Soc. **31**(3-4): 185, [1947] 1948.

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 306 (fig. 60).



Fig. 60

Cucurbitaria rhamni (Nees) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 339, 1861 [Bot. Zeitung **19**: 295, 1861].

≡ *Sphaeria rhamni* Nees, Syst. Pilze (Würzburg): 299, [1816-17] 1816.

≡ *Neocucurbitaria rhamni* (Nees) Jaklitsch & Voglmayr, in Jaklitsch et al., Stud. Mycol. **90**: 99, 2017.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 339 (fig. 61).



Fig. 61

Cucurbitaria elongata var. *simplex* (Fr.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 340, 1861 [Bot. Zeitung **19**: 295, 1861].

≡ *Sphaeria elongata* var. (γ) *simplex* Fr., Syst. mycol. **2**(2): 423, 1823.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 340 (fig. 62).



Fig. 62

Phoma complanata (Tode) Desm. (as “*complanatum*”), in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 343, 1861 [Bot. Zeitung **19**: 295, 1861].

≡ *Sphaeria complanata* Tode, Fung. mecklenb. sel. (Lüneburg) **2**: 21, 1791.

≡ *Calophoma complanata* (Tode) Qian Chen & L. Cai, Stud. Mycol. **82**: 194, 2015.

Notes: This is a valid combination (with indirect reference to *Sphaeria complanata*, Art. 41.3) published on the label of Fungi Eur. Exs. 343 (fig. 63).

Phoma complanata var. *acuta* Auersw. (as “*acutum*”), Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 343, 1861 [Bot. Zeitung **19**: 295, 1861].

Notes: This is a valid variety published with a description on the label of Fungi Eur. Exs. 343 (fig. 63).



Fig. 63

Vermicularia schoenoprasi Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 346, 1861 [Bot. Zeitung **19**: 295, 1861].

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 346 (fig. 64).



Fig. 64

Dothidea rimosa var. *depauperata* Desm., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 349, 1861 [Bot. Zeitung **19**: 295, 1861].

Notes: This is a valid variety published with a description on the label of Fungi Eur. Exs. 349 (fig. 65).

349. Dethidea rimosa Fr. Summ. 386.
Sphaeria rimosa Alb. Schw. Consp. fung. p. 13. t. 3.
 fig. 1.; et auct. aliis.
 β. **depauperata** Desmaz. in litt. sic. a div. Wall-
 roth in Comp. fl. germ. 4. 813., indicata.
 «Ad folia plerumque in monstra erysiboidea desciscens.»
 In limbo foliorum Phragmitis communis, St. Romani - ad-
 Vignnam, mart. 1861 leg. T. de Lacroix Pter.

Fig. 65

Tympanis crataegi Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 353, 1861 [Bot. Zeitung **19**: 295, 1861].

≡ *Ocellaria aurantiaca* var. *crataegi* (Lasch) Rehm, Rabenh. Krypt.-Fl., Edn 2 (Leipzig) 1.3(Lief. 30): 135 [1896] 1888.

≡ *Dermatea crataegi* (Lasch) Jaap, Fung. Sel. Exs.: no. 413, 1910.

= *Peziza sepium* Desm., Ann. Sci. Nat., Bot., Sér. 3, **14**: 111, 1850.

≡ *Helotium sepium* (Desm.) Sacc., Syll. fung. (Abellini) **8**: 229, 1889.

≡ *Calycina sepium* (Desm.) Kuntze, Revis. gen. pl. (Leipzig): **3**(2): 449, 1898.

≡ *Pezicula sepium* (Desm.) Dennis, Persoonia **3**: 65, 1964.

= *Pezicula crataegi* Auersw. ex Fuckel, Jahrb. Nassauischen Ver. Naturk. **27-28**: 56, [1873-74] 1874, nom. nud.

≡ *Pezicula crataegi* Auersw. ex Hazsl., Mag. Szab. Disc.: 220, 1886.

= *Dermatea crataegicola* Durand, J. Mycol. **10**: 100, 1904.

≡ *Pachydisca crataegicola* (Durand) Boudier, Hist. Class. Disc. Eur. (Paris): 93, 1907.

= *Dermatea olivascens* Rehm, Ann. Mycol. **5**: 80, 1907.

Notes: This is a valid species published on the label of Fungi Eur. Exs. 353 (fig. 66). Dennis (1974) reduced *T. crataegi* to synonymy with *Pezicula sepium*.

Rabenhorst, Fungi europaei.
353. Tympanis Crataegi Lasch nov. spec.
 erumpens, simplex v. subcespitosa, turbinata pallide-fusca,
 intus obscure-flava, disco subviridi-nigrescente; asci cla-
 vati, sporis oblongo-ovoideis.
 In ramis Crataegi pr. Driesen leg. Lasch.

Fig. 66

Raphidospora ononidis Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 359, 1861 [Bot. Zeitung **19**: 295, 1861], nom. nud.

Notes: In addition, *Sphaeria fruticum* Roberge ex Desm. was cited as synonym, i.e., *R. ononidis* would also be a superfluous new name (Art. 52.1).

Spilosphaeria vincetoxici Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 362, 1861 [Bot. Zeitung **19**: 295, 1861].

= *Depazea vincetoxici* Ficinus & C. Schub., Fl. Geg. Dresd. **2**: 352, 1823.

≡ *Sphaeria vincetoxici* (Ficinus & C. Schub.) Fr., Elench. fung. (Greifswald) **2**: 109, 1828.

≡ *Septoria vincetoxici* (Ficinus & C. Schub.) Sacc. (as "Auersw."), Syll. fung. **3**: 542, 1884.

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 362 (fig. 67). Saccardo (l.c.) assigned the combination *Septoria vincetoxici* to Auerswald ("F. Eur." = Fungi Europaei). However, there is only a single collection in the whole series of this exsiccata under the name *Septoria vincetoxici*, viz., Fungi Eur., Cent. 18, no. 3787, 1891. Saccardo's (l.c.) citation of Auerswald in Fungi Europaei probably referred to *Spilosphaeria vincetoxici*.

Rabenhorst, Fungi europaei.
362. Spilosphaeria Vincetoxici Awd.
 herb. et litt.
 Cirrhi albidi sporis bacillaribus rectis v. curvatis hyalinis
 repleti.
 Bienitz prope Lipsiam ad folia Cynanchi Vincet. Septbr.
 1860 leg. Auerswald.

Fig. 67

Didymium praecox de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 367, 1861 [Bot. Zeitung **19**: 295, 1861], nom. nud.

≡ *Didymium praecox* de Bary ex Rostaf., Śluzowce monogr. (Paryz): 163, [1874] 1875.

= *Didymium squamulosum* (Alb. & Schwein.) Fr., in Fries & Nordholm, Symb. gasteromyc. (Lund) **3**: 19 [1817] 1818.

Notes: This name was not validly published by de Bary in Fungi Eur. Exs. 367 (fig. 68). It was just mentioned that the “new species” is allied to *Didymium candidum*, but different. However, details were not given. The name *Didymium praecox* was later validated by Rostafiński (1875: 163), who added a Polish description. Saccardo (1888: 380) listed this name with reference to Rostafiński (1875: 163) and added a Latin description.

Rabenhorst, Fungi europaei.
367. Didymium praecox D. By Mspt.
 Didymio candido Schrad. Nov. gen. affine sed diversum
 videtur.
 Pertinet ad Didymii Sect. II., Diderma, De By Mspt.
 Inter folia coacervata in horto botanico Friburgensi
 April 1859 et 1860 leg. De Bary.

Fig. 68

Peronospora macrocarpa f. *elongata* de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 374, 1861 [Bot. Zeitung **19**: 295, 1861].

= *Plasmopara pygmaea* (Unger) J. Schröt., in Cohn, Krypt.-Fl. Schlesien (Breslau) **3.1**(9–16): 239, [1889] 1886.

Notes: This is a valid forma published on the label of Fungi Eur. Exs. 374 (fig. 69) as substrate (host) forma. Constantinescu (1991: 58) classified this name as “invalid” which is not correct.

Rabenhorst, Fungi europaei.
374. Peronospora macrocarpa Corda
 Icon.
Forma elongata!
 Freiburg im Br., in Anemone nemorosa April 1860 leg.
 De Bary.

Fig. 69

Peronospora grisea f. *trifolii* de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 375, 1861 [Bot. Zeitung **19**: 295, 1861].

≡ *Peronospora trifoliorum* de Bary, Ann. Sci. Nat., Bot., Sér. 4, **20**: 117, 1863.

Notes: This is a valid forma published on the label of Fungi Eur. Exs. 374 (fig. 70) as substrate (host) forma.

Rabenhorst, Fungi europaei.
375. Peronospora grisea Unger in bot. Zeit.
 1847. p. 315.
Forma: Trifolii!
 Freiburg, in Trifolio medio, Majo 1859 leg. De Bary.

Fig. 70

Fusidium pteridis Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 389, 1861 [Bot. Zeitung **19**: 296, 1861].

≡ *Cryptomycella pteridis* (Kalchbr.) Höhn., Mitt. Bot. Inst. Tech. Hochsch. Wien **2**(3): 48, 1925.

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 389 (fig. 71).



Fig. 71

Puccinia graminis var. *avenae* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 392, 1861 [Bot. Zeitung **19**: 296, 1861].

Notes: This is a valid variety published with a description on the label of Fungi Eur. Exs. 392 (fig. 72).



Fig. 72

Urocystis colchici (Schltdl.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 4: no. 396, 1861 [Bot. Zeitung **19**: 296, 1861], nom. inval. (Art. 35.1).

≡ *Caecoma colchici* Schltdl., Linnaea **1**: 241, 1826.

≡ *Urocystis colchici* (Schltdl.) A.A. Fisch. Waldh., Bull. Soc. Imp. Nat. Moscou **40**: 258, 1867.

Notes: The genus name *Urocystis* was introduced by Rabenhorst in Fungi Eur. Exs. 396 (fig. 73) as illegitimate (superfluous) nom. nov. to replace *Polycystis* Lév., 1846, with reference to *Polycystis* (Kützing) Kützing, 1849. *Urocystis* Rabenh. ex Fuckel is now a conserved name, and *Polycystis* Lév. has been rejected.



Fig. 73

Cent. 5

Thelephora laciniata var. *vaccinii* Kalchbr. (as “*Telephora*”), in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 410, 1862 [Bot. Zeitung **20**: 198, 1862].

Notes: This is a validly published variety with a description on the label of Fungi Eur. Exs. 410 (fig. 74).



Fig. 74

Hypochnus michelianus Caldesi, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 413, 1862 [Bot. Zeitung 20: 198, 1862].

≡ *Septobasidium michelianum* (Caldesi) Pat., Essai Tax. Hyménomyc. (Lons-le-Saunier): 10, 1900.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 413 (fig. 75).



Fig. 75

Clavaria pruinella Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 414, 1862 [Bot. Zeitung 20: 198, 1862].

= *Ramaria stricta* (Pers.) Quéf., Fl. mycol. France (Paris): 464, 1888.

Notes: This is a validly published species with a descriptions on the label of Fungi Eur. Exs. 414 (fig. 76).



Fig. 76

Typhula gilva Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 419, 1862 [Bot. Zeitung 20: 198, 1862].

= *Pistillaria gilva* (Lasch) Corner, Monograph of *Clavaria* and allied Genera, (Ann. Bot. Mem. 1): 482, 1950.

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 419 (fig. 77).

Rabenhorst, Fungi europaei.
419. Typhala gilva Lech. herb. et in litt.
 T. simplex, glabra, gilva; clavula ex obovato-oblonga; stipite medioeri dilutiore; sporis ovoideis (Tuberculo radicali nullo).
 In solo lutoso inter Polytricha pr. Driesen leg. Lasch.

Fig. 77

Ascobolus solms-laubachii Rabenh. [as “*solms-laubachi*”], Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 420, 1862 [Bot. Zeitung **20**: 198, 1862].

≡ *Ascozonus solms-laubachii* (Rabenh.) Brumm., Persoonia **16**(4): 432, 1998.

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 420 (fig. 78).

Rabenhorst, Fungi europaei.
420. Ascobolus Solms-Laubachi Rabenh. Mspt.
 Laubach pr. Giessen leg. Com. Fr. Solms Laubach.
 Diff. ab omnibus mihi notis: ascis amplis, sporis 32 repletis, paraphysibus destitutis, operculo conico!

Fig. 78

Peziza obvelata Lacroix, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 422, 1862 [Bot. Zeitung **20**: 198, 1862].

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 422 (fig. 79).

Rabenhorst, Fungi europaei.
422. Peziza obvelata De Lacr.
 Ascomatibus sub epidermide nidulantibus, inter nervos foliorum serialis, approximatis, rarissime confluentibus, ceraceo-mollibus, minutissimis, ore subconstrictis, parum apertis, primo rubellis, dein fusciscentibus, disco concolore thecas octosporas 0,04 mm. longas, 0,005 mm. latis fovente; sporis ovalis, obtusis, biocellatis, 0,008 mm. longis, 0,002 mm. latis. Hypophylla, subepidermoidea, ad Caricem hirtam Sti Romani ad Vigennam in territorio pictav. legebat de Lacroix, pater.

Fig. 79

Peziza stitzenbergeri Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 427, 1862 [Bot. Zeitung **20**: 198, 1862].

≡ *Peziza umbonata* var. *epiphylla* Alb. & Schwein., Conspectus fung. (Leipzig): 339, 1805 [Fr., Syst. mycol. **2**(1): 146, 1822].

≡ *Niptera umbonata* (Pers.) Fuckel, Jahrb. Nassauischen Vereins Naturk. **23-24**: 292 [1869-70] 1870.

Notes: This species was validly published as new species name based on *Peziza umbonata* var. *epiphylla* on the label of Fungi Eur. Exs. 427 (fig. 80).

Rabenhorst, Fungi europaei.
427. Peziza Stitzenbergeri Rabenh. Mspt.
 Pez. umbonata $\beta\beta$ epiphylla Alb. et Schw. Conspectus. 339.
 Constanza, in foliis dejectis Fagi sylvaticae leg. Stitzenberger. — A *Peziza umbonata* Pers. icon. T. 9. F. 5. sat diversa.
 L. R.

Fig. 80

Reticularia carestiana Rabenhorst, Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 436, 1862 [Bot. Zeitung **20**: 198, 1862].

≡ *Lepidoderma carestianum* (Rabenh.) Rostaf., Śluzowce monogr. (Paryz): 188 [1874] 1875.

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 436 (fig. 81).

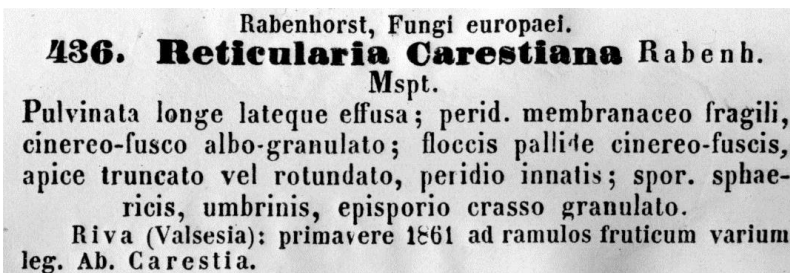


Fig. 81

Sphaeria vepris Lacroix, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 443, 1862 [Bot. Zeitung **20**: 199, 1862].
 ≡ *Sphaeria rubi* Currey, Trans. Linn. Soc. London **22**: 325, 1859, nom. illeg. (Art. 53.1), non Mart., 1817.
 ≡ *Anisogramma vepris* (Lacroix) Merezko, in Smitskaya, Smyk & Merezko, Opredelitel' Pirenomitsetov USSR (Kiev): 258, 1986.
 Notes: The new name *Sphaeria vepris*, based on *Sphaeria rubi* Currey, 1859, non Mart., 1817, was validly published on the label of Fungi Eur. Exs. 443 (fig. 82).



Fig. 82

Pleospora dianthi Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 451, 1862 [Bot. Zeitung **20**: 199, 1862].
 ≡ *Sphaeria dianthi* Ces., in Rabenh., Klotzschii Herb. Viv. Mycol., Ed. Nova, Cent. 18: no. 1734, 1853, nom. illeg. (Art. 53.1), non Alb. & Schwein, 1805.
 Notes: *Pleospora dianthi* is a new name based on *Sphaeria dianthi* Ces., 1853, non Alb. & Schwein., 1805, validly published on the label of Fungi Eur. Exs. 451 (fig. 83). *Pleospora dianthi* De Not., Sfer. Ital.: 74, 1863, nom. illeg. (Art. 53.1) is a younger homonym.



Fig. 83

Sphaeronaema spinella Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 456, 1862 [Bot. Zeitung **20**: 199, 1862].
 ≡ *Cytonaema spinella* (Kalchbr.) Höhn., Sitzungsber. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl., Abt. 1, **123**: 84, 1914.
 Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 456 (fig. 84).

Lophodermium rhododendri Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 458, 1862 [Bot. Zeitung **20**: 199, 1862], nom. nud.
 ≡ *Lophodermium rhododendri* Ces. ex Rehm, Ber. Naturhist. Vereins Augsburg **26**: 34, 1881.
 ≡ *Lophomerum rhododendri* (Ces. ex Rehm) Remler, Biblioth. Mycol. **68**: 179, [1979] 1980.



Fig. 84

Cosmospora Rabenh. and *Cosmospora coccinea* Rabenh., Hedwigia 2: 59, 1862 [Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 459, 1862; Bot. Zeitung 20: 199, 1862].

Helminthosporium fructigenum Rabenh. (as “*frunctigenum*”), Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 468, 1862 [Bot. Zeitung 20: 199, 1862].

≡ *Brachysporium fructigenum* (Rabenh.) Sacc., Syll. fung. (Abellini) 4: 429, 1886.

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 468 (fig. 85).



Fig. 85

Epicoccum dispersum Ces. & Mont., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 472, 1862 [Bot. Zeitung 20: 199, 1862].

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 472 (fig. 86).



Fig. 86

Bactridium album (Riess) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 473, 1862 [Bot. Zeitung 20: 199, 1862].

≡ *Mastigosporium album* Riess, in Fresenius, Beitr. Mykol. 2: 56, 1852.

Notes: This is a valid combination published by Bonorden in Rabenh., Fungi Eur. Exs. 473 (fig. 87).



Fig. 87

Physonema vulgare (Fr.) Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 474, 1862 [Bot. Zeitung 20: 199, 1862].

≡ *Epitea vulgaris* Fr., Summa veg. Scand., Sectio Post. (Stockholm): 512, 1849.

Notes: This is a valid combination published by Bonorden in Rabenh., Fungi Eur. Exs. 474 (fig. 88).

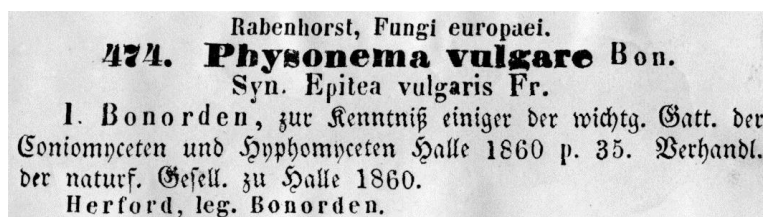


Fig. 88

Cystopus spinulosus de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 479, 1862 [Bot. Zeitung 20: 199, 1862].

≡ *Pustula spinulosa* (de Bary) Thines, Mycotaxon 92: 455, 2005.

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 479 (fig. 89).



Fig. 89

Cystopus lepigoni de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 483, 1862 [Bot. Zeitung 20: 200, 1862; Ann. Sci. Nat., Bot., Sér. 4, 20: 132, 1863].

≡ *Albugo lepigoni* (de Bary) Kuntze, Revis. gen. pl. (Leipzig) 2: 658, 1891.

Notes: This species was validly published with a description on the the label of Fungi Eur. Exs. 483 (fig. 90). The description was later repeated in de Bary (1863: 132), who referred to earlier publications of the new taxa in Rabenhorst's exsiccata (see *Cystopus spinulosus* on page 133). *Erysibe arenariae-marinae* Wallr. was cited as synonym. However, this name has never been validly published. Rabenhorst (1844: 13) just cited this name (as "Wallr., in litt.") as synonym (pro. syn.) of *Uredo candida* d. *caryophyllacearum*.

Rabenhorst, Fungi europaei.
483. Cystopus Lepigoni de Bary Mspt.
 Erysibe Arenariae marinae Wallr. Rab. Handb.
 Er. Sphaerica β . Wallr. fl. germ. cr.
 Zoosporangia globosa, membrana ubique aequali. Oosporae
 fuscae, tenuissime tuberculatae.
 In Lepigono medio Wahlb. ad Salinas prope Kreuznach leg.
 L. Fuckel.

Fig. 90

Coleosporium cacaliae (DC.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 484, 1862 [Bot. Zeitung **20**: 200, 1862].

≡ *Uredo cacaliae* DC., Encycl. Méth. Bot. **8**: 223, 1808.

≡ *Coleosporium cacaliae* (DC.) Lév., Ann. Sci. Nat., Bot., Sér. 3, **8**: 375, 1847, nom. inval., Art. 35.2.

≡ *Coleosporium cacaliae* (DC.) Fuckel, Jahrb. Nassauischen Vereins Naturk. **23-24**: 43, [1869-1870] 1870, isonym (Art. 6.3, Note 2).

= *Coleosporium cacaliae* G.H. Otth, Mitt. Naturf. Ges. Bern **580-602**: 179, [1865] 1866, nom. illeg. (Art. 53.1), non (DC.) Rabenh., 1862.

Notes: This is a validly published combination introduced on the the label of Fungi Eur. Exs. 484 (fig. 91). Otth (1866) published *Coleosporium cacaliae* as new species, i.e., *Uredo cacaliae* was not cited as basionym of a combination.

Rabenhorst, Fungi europaei.
484. Coleosporium Cacaliae (D. C.)
 Tatra in foliis Adenostylis alpinae frequentissime.
 Kalchbrenner.

Fig. 91

Puccinia rumicis Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 5: no. 496, 1862 [Bot. Zeitung **20**: 200, 1862], nom. illeg. (Art. 53.1), non Bellynck, 1852.

Notes: This species was published with a description on the label of Fungi Eur. Exs. 496 (fig. 92), but the name is illegitimate (younger homonym).

Rabenhorst, Fungi europaei.
496. Puccinia Rumicis Lich.
 Cum Uromyce Rumicum flavido-fusca mixta!
 Acervulis subrotundis nigro-fuscis, sporis ovalibus utrinque
 obtusis, medio uniseptatis, basi breviter hyalino-pedicellatis.
 In foliis R. Acetosa pr. Driesen rarius. Lasch.

Fig. 92

Cent. 6

Agaricus laccatus var. *perpusillus* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 503, 1863 [Bot. Zeitung **21**: 229, 1863].

Notes: This variety was validly published with a description on the label of Fungi Eur. Exs. 503 (fig. 93).

Rabenhorst, Fungi europaei.
503. Agaricus (Clitocybe) **laccatus** Scop.
Var. perpusillus Rabenh. pileo umbilicato, lamellis
 passim decurrentibus v. leviter adnatis, latissimis.
 In locis sterilibus pr. Reichenberg in Bohemia boreali leg.
 Wilhelm Sigmund junior.

Fig. 93

Marasmius karlii Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 506, 1863 [Bot. Zeitung **21**: 229, 1863].

Notes: This species was validly published with a brief diagnosis on the label of Fungi Eur. Exs. 506 (fig. 94), emphasizing that this species is intermediate between *M. androsaceus* (L.) Fr. and *M. rotula* (Scop.) Fr.

Rabenhorst, Fungi europaei.
506. Marasmius Karlii Rabenh. Mspt.
 M. forma, quae inter *M. androsaceum* et *M. Rotulam*
 medium tenet.
 Gregarie ad Pini truncos mucidos vetustos pr. Mariae
 balneum Bohemiae, Junio 1862 leg. Karl.

Fig. 94

Peziza infarciens Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 515, 1863 [Bot. Zeitung **21**: 229, 1863].

≡ *Helotium infarciens* (Ces.) Ces. & De Not., Comm. Soc. Crittog. Ital. **1**(4): 378, 1863.

≡ *Hymenoscyphus infarciens* (Ces.) Dennis, Persoonia **3**(1): 74, 1964.

Notes: *Peziza infarciens* was validly published with a description on the label of Fungi Eur. Exs. 515 (fig. 95). *Helotium infarciens* is a combination based on *Peziza infarciens*, which was cited as synonym by Cesati & de Notaris (1863).

Rabenhorst, Fungi europaei.
515. Peziza infarciens Ces. hb. et mss.
 Ad ramos ramulosque Cytisi alpini encortuos, subcutanea,
 dice tecta, et nisi maturitati proxima per rimas longitudinales
 erumpens. Laete flava, e stipite plus minus compresso dilutiori
 in cupulam obtuse marginatam dilatata, nunc sparsa, nunc sae-
 piusque caespitosa. Pro *P. citrinae* forma abnormi e situ mox
 habui; sed analysis microscopica de specie propria hic agi mihi
 suasit. In *P. citrina* ex Rabh. hb. mycol. Ed. I. N. 333. et
 speciminibus nostratibus, asci e cylindraceo clavati, pro tertia
 parte in pedicellum angustati, $2\frac{2}{500}$ mm. longi, $2\text{--}3\frac{3}{500}$ mm. lati, spo-
 ridia navicularia utrinque acuta foventes. Illi fungilli nostri, e
 contra, perfecte cylindracei, etsi maturitatem perfectam non ad-
 tinxerint, longitudinem $5\frac{50}{500}$ mm., latitudinem $6\frac{6}{500}$ mm. metiuntur;
 sporae ovals obtusae mihi visae.
 St. Giovanni di Campiglia (vallis d'Andorno, ditionis
 Bugellensis in Pedemontio). — Sept. 1861. Cesati.

Fig. 95

Peziza cyanoderma de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 516, 1863 [Bot. Zeitung **21**: 229, 1863].

= *Caloscypha fulgens* (Pers.) Boud., Hist. Class. Discom. Eur. (Paris): 54, 1907.

Notes: *Peziza cyanoderma* is a valid species published with a description on the label of Fungi Eur. Exs. 516 (fig. 96). This species is a synonym of *Caloscypha fulgens* (see Fraiture & Notte 2001)

Rabenhorst, Fungi europaei.
516. Peziza cyanoderma de By.
 Humariis Friesii, e. gr. *Pez.* ollari affinis sed diversa ab
 omnibus speciebus mihi cognitis videtur: Cupula carnosa
 extus semper fere aeruginea, disco saturate aurantiaco.
 stipite brevi, irregulari in mycelium ramosissimum radici-
 forme, albido-coeruleum soluto.
 Gregarie crescit vere in silvis montanis, tam acerosis quam
 frondosis, ad terram muscosam.
 Cupula primum obconica, tum subhemisphaerica, tandem
 explanata margine flexuoso. Hyphae faciem exteriorem
 constituenter membrana caerulea, contentis aurantiacis mu-
 nitae sunt ita ut colorem aerugineum oculo undo praebeant.
 Saepissime tota cupula extus aeruginea, rarius pro parte,
 rarissime omnino luteo-aurantiaca est. Cupulae diameter
 plerumque semiuncialis, nonnunquam unciam superans.
 Stipes in terra absconditur, 1—2 lineas longus, mycelio
 per humum late effuso quasi radicans. Stipitis myceliique
 hyphae contenta alba, membranas partim coeruleas partim
 hyalinas praebent, unde color albido-caeruleus.
 Asci angusti sporas 8 exacte globosas, hyalinas, laevissi-
 mas foventes.
 Innumera hujus fungi multitudo provenit mense Aprili 1862
 in silvis montium Freiburgensium. A. de Bary.

Fig. 96

Hysterographium eupatorii Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 530, 1863 [Bot. Zeitung **21**: 229, 1863].

≡ *Glonium eupatorii* (Lasch) Sacc., Syll. fung. (Abellini) **11**: 386, 1895.

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 530 (fig. 97).

Babenhorst, Fungi europaei.
530. Hysterographium Eupatorii Lsch.
 Peritheciis erumpentibus oblongis nigris, dein longitudina-
 liter apertis; disco albido; ascis distinctis, sporis ovatis
 uniseptatis.
 In caulib. emort. Eup. cannabini pr. Driesen leg. Lasch.

Fig. 97

Sphaeria luzulae Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 533, 1863 [Bot. Zeitung **21**: 229, 1863].

≡ *Phyllachora luzulae* (Rabenh.) Cooke, Grevillea **13**(67): 64, 1885.

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 533 (fig. 98).

Rabenh., Fungi europaei.
533. Sphaeria Luzulae Rabenh. Mspt.
 Stromate substriaeforme atro carnoso, nucleo atro, ascis
 fasciculato-aggregatis clavatis octosporis paraphysibus des-
 titutis, sporis ovoideis monoblastis hyalinis.
 Dothideae spec. proxima!
 In foliis Luzulae pilosae prope Giessen leg.
 H. Hoffmann.

Fig. 98

Hendersonia conorum Lacroix, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 540, 1863 [Bot. Zeitung **21**: 229, 1863].

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 540 (fig. 99).



Fig. 99

Diplodia mori (Chaillat ex Fr.) Auersw. Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 544, 1863 [Bot. Zeitung **21**: 230, 1863], nom. illeg. (Art. 53.1), non Berk., 1847.

≡ *Sphaeria mori* Chaillat ex Fr., Syst. mycol. (Lundae) **2**(2): 494, 1823, nom. inval. (Art. 38.1, a).

Notes: This is an illegitimate name (combination), based on an invalid basionym (fig. 100).

Rabenhorst, Fungi europaei.
544. Diplodia Mori A w d.
 Sphaeria Mori albae Chaillet sec. spec. orig.!
 (cl. Fries in syst. myc. II. p. 494. Sphaerium Mori Chail.
 pro Sphaeriae [Diplodiae] Juglandis variet. habet.)
 Leipzig, ad ramulos Mori, Mart. 1862 leg. Auerswald.

Fig. 100

Nodulosphaeria dolioloides Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 547, 1863 [Bot. Zeitung **21**: 230, 1863].

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 547 (fig. 101).

Rabenhorst, Fungi europaei.
547. Nodulosphaeria dolioloides A w d.
 Sporae fusiformes, suboctoblastes, melleae; cellula ab apice
 quarta leniter turgida.
 (Sporae omnino eadem ac in Nodulosphaeria hirta Rbh.
 herb. myc. ed. II. n. 725.)
 Gross-Drebnitz pr. Bischofswerda (Saxoniae) ad caules
 Tanacetii officinalis. Mai 1862. Auerswald.

Fig. 101

Depazea sorbicola Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 548, 1863 [Bot. Zeitung **21**: 230, 1863].

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 548 (fig. 102). Laibach (1920) examined syntype material, but could not trace any conidia. Nevertheless, he considered *Depazea sorbicola* a probable synonym of *Septoria sorbi* Lasch [current valid name – *Septoria sorbi* Sacc. (see Braun 2018a: 6, as “*S. sorbi* (Sacc.) Sacc.”)]. Syntype material preserved at HAL has been re-examined, but this sample is also sterile. Rabenh. (l.c.) just mentioned the formation of acrogenous conidia, but, in contrast to many other descriptions published in his exsiccata, he did not give any further details, suggesting that the whole material or at least almost all duplicates were immature when collected and distributed. However, the conidiomata in this sample are rather small (50–75 µm diam.). Pycnidia of *Septoria sorbi* are much larger, about 90–200 µm diam. (see Teterevnikova-Babayana, 1987: 376), and ascomata of the putative sexual morph of *S. sorbi* (see Laibach 1920) are 80–120 µm diam. The leaf spots of *Depazea sorbicola* and the size of the conidiomata agree well with a modern description of “*Asteromella trautmanniana* (Moesz) Moesz” in Ruszkiewicz-Michalska (2016: 96), based on collections from Poland on *Sorbus aucuparia*. However, the Polish collections on *S. aucuparia* (conidia cylindrical, (3–)4.5–7.5 × (0.6–)1–1.5 µm) do not agree with the original description of *A. trautmanniana* (conidia ellipsoid, 7–8 × 2–4 µm), a species described from Hungary on *Torminalis glaberrima* (= *Sorbus torminalis*). Furthermore, the generic affinity of the genuine *A. trautmanniana* is not yet clear. The ellipsoid conidia are not in favour of *Asteromella*. According to van der Aa & Vanev (2002), the original description and illustration of the latter species rather suggest an affinity to the genus *Leptodothiorella*, but a species of *Phoma* can also not be ruled out (there are several common *Phoma* species known from species of *Sorbus s. lat.*, see Aa & Vanev 2002). The species on *Sorbus aucuparia*, belonging in *Asteromella*, seems to be rather common, at least in Poland. *Depazea sorbicola* seems to refer to this species, but due to the absence of conidia in type material it would be necessary to determine the application of this name by epitypification, which will be proposed elsewhere.

Rabenhorst, Fungi europaei.
548. Depazea Sorbicola Rabenh. Mspt.
 Perith. minutis aggregatis semiinnatis, nucleo celluloso al-
 hido, sporis acrogenis monoblastis, absque ascis et para-
 physibus.
 Doemitz (Flor. megapolit.) in fol. Sorbi leg. Dr. Fiedler.

Fig. 102

Phyllosticta sagittariae Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 553, 1863 [Bot. Zeitung **21**: 230, 1863], nom. nud.

Notes: This is a nom. nud., published without description or diagnosis. Van der Aa & Vanev (2002: 409) mentioned that they could not find any pycnidial fungi in the syntype collections examined. The syntype preserved in HAL has been examined. *Phyllosticta sagittariae* is probably a synonym of *Doassansia sagittariae* (Fuckel) J.C. Fisch.

Spilosphaeria comari Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 554, 1863 [Bot. Zeitung **21**: 230, 1863], nom. nud.

≡ *Septoria comari* Sacc. (as “(Lasch) Sacc.”), Syll. fung. (Abellini) **10**: 363, 1892, nom. nud.

Notes: *Spilosphaeria comari* was published without description or diagnosis. Saccardo (l.c.) allocated this species to *Septoria*, but he failed to validate this species by adding a description.

Stemonitis friesiana de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 568, 1863 [Bot. Zeitung **21**: 230, 1863], nom. illeg. (Art. 52.1).

Notes: de Bary (l.c.) included in the original description two previously published valid species (as varieties): *Stemonitis oblonga* Fr. and *St. obtusata* (Fries 1829: 150–160), see fig. 103.



Fig. 103

Arthrimum sporophlaeum Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 576, 1863 [Bot. Zeitung **21**: 230, 1863], nom. nud.

Cladosporium caespiticium Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 579, 1863 [Bot. Zeitung **21**: 230, 1863], nom. nud.

= *Cladosporium herbarum* (Pers. : Fr.) Link, Ges. Naturf. Freunde Berlin Mag. Neuesten Entdeck. Gesamnten Naturk. **7**: 37, 1816. See Bensch et al. (2012: 154).

Sporotheca pannosa Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 580, 1863 [Bot. Zeitung **21**: 230, 1863].

Notes: This species was validly published with a descriptions on the label of Fungi Eur. Exs. 580 (fig. 104).



Fig. 104

Atractium rigidum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 581, 1863 [Bot. Zeitung **21**: 230, 1863; Abh. Naturforsch. Ges. Halle **8**: 96, 1864].

≡ *Epidochium rigidum* (Bonord.) Sacc., Syll. fung. (Abellini) **4**: 748, 1886.

Notes: This species was validly published with a descriptions on the label of Fungi Eur. Exs. 581 (fig. 105).



Fig. 105

Scolicotrichum venosum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 6: no. 582, 1863 [Bot. Zeitung 21: 230, 1863; Abh. Naturforsch. Ges. Halle 8: 96, 1864].

= *Fusicladium pomi* (Fr.) Lind, Danish Fungi (Copenhagen): 521, 1913.

= *Venturia inaequalis* (Cooke) G. Winter, in Thümen, Mycoth. Univ., Cent. 3: no. 261, 1875.

Notes: This species was validly published with a description on the label of Fungi Eur. Exs. 582 (fig. 106). It is a synonym of *Venturia inaequalis* (see Schubert et al. 2003).



Fig. 106

Cent. 7

Peziza leineri Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 617, 1864 [Bot. Zeitung 22: 173, 1864], nom. nud.

≡ *Peziza leineri* Rabenh. & Gonn., Myc. Europ. (Dresden): tab. 5, fig. 4, 1870.

Peziza trachycarpa Curr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 620, 1864 [Bot. Zeitung 22: 173, 1864; Hedwigia 3: 71, 1864; Trans. Linn. Soc. London 24: 493, 1864].

≡ *Lamprospora trachycarpa* (Curr.) Seaver, Mycologia 6(1): 19, 1914.

Notes: This is a valid species published with a description on the label of Fungi Eur. Exs. 620 (fig. 107).



Fig. 107

Peziza leiocarpa Curr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 622, 1864 [Bot. Zeitung 22: 173, 1864; Hedwigia 3: 71, 1864; Trans. Linn. Soc. London 24: 493, 1864].

= *Plicaria endocarpoides* (Berk.) Rifai, Verh. K. Ned. Akad. Wet., Tweede Sect. 57(3): 255, 1968.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 622 (fig. 108).



Fig. 108

Naevia lauri Caldesi, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 626, 1864 [Bot. Zeitung 22: 173, 1864], nom. nud.

≡ *Naevia lauri* Caldesi, Erb. critt. Ital., Ser. 1, fasc.: no. 491 [1863] 1864.

≡ *Hysterostegiella lauri* (Caldesi) B. Hein, Nova Hedwigia 38: 689, 1983.

Sphaerella euonymi (Kunze ex Fr.) Rabenh. (as "*evonymi*"), Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 657, 1864 [Bot. Zeitung 22: 174, 1864].

≡ *Sphaeria euonymi* Kunze ex Fr., in Fries, Syst. mycol. (Lundae) 2(2): 439, 1823.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 657 (fig. 109).



Fig. 109

Capnodium nerii Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 662, 1864 [Bot. Zeitung 22: 174, 1864; Hedwigia 3: 73, 1864].

≡ *Microxyphiella nerii* (Rabenh.) Speng., Physis, B. Aires, C 4(17): 294, 1918.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 662 (fig. 110).

Rabenhorst, Fungi europaei.
662. Capnodium Nerii Rabenh. herb. et Mspt.
 Mycelio moniliformi ramoso-reticulato, illo Capnodii Citri
 simillimo; peridiis elongatis subconicis, sporis oblongis
 uniseptatis.
 In foliis Nerii prope Mentone Galliae leg. Böttcher.
 NB. Specimina non omnia bene evoluta.

Fig. 110

Capnodium rhamnicola Rabenh. (as "*rhamnicolum*"), Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 666, 1864 [Bot. Zeitung 22: 174, 1864; Hedwigia 3: 73, 1864].

≡ *Microxyphiella rhamnicola* (Rabenh.) Speg., Physis, B. Aires, C 4(17): 294, 1918.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 666 (fig. 111).

Rabenhorst, Fungi europaei.
666. Capnodium Rhamnicolum Rabenh.
 Mspt.
 C. mycelio moniliformi vage ramoso, peridio brevi e basi
 dilatata subconico, sporis elliptico-oblongis hyalinis uniseptatis. Socio Coniothecio quodam.
 In foliis Rhamni prope Carlsbad Bohemiae leg. ipse.

Fig. 111

Depazea sambucicola Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 668, 1864 [Bot. Zeitung 22: 174, 1864; Hedwigia 3: 73, 1864].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 668 (fig. 112).

Rabenhorst, Fungi europaei.
668. Depazea Sambucicola Kalchbr. Mspt.
 D. maculis sat amplis subangulatis griseis, purpureo-fusco
 limitatis; peritheciis crebris, sparsis, subprominulis, minutis,
 fusco-atris, sporis acrogenis minutissimis hyalinis globosis.
 Prope Wallendorf Hungariae leg. C. Kalchbrenner.

Fig. 112

Isaria hypoxyli Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 670, 1864 [Bot. Zeitung 22: 174, 1864; Hedwigia 3: 73, 1864].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 670 (fig. 113).

Rabenhorst, Fungi europaei.
670. Isaria Hypoxyli Kalchbr. Mspt.
 I. clavulis estipitatis, ramosis, cervinis in caespitulos, am-
 bitu radiantes collectis, ramis divisis, apice subdilatis
 undique floccoso-pulverulentis.
 Hab. super Hypoxyllo coccineo ad corticem lig-
 norum focalium, in sylva coacervatorum, ibique putrescentium;
 raro. Vere. (28. Mart 1863.) Hungar. boscal. ad
 Olaszinum Scepusii.
 Rosen, 3—4''' im Durchmesser, finden sich stets an ein
 Hypoxylon geheftet, dessen Basis von einem Kranze dendritisch
 verzweigter Keulchen umgeben wird, welche der Rinde dicht an-
 liegen. Oft auch findet sich das Hypoxylon selbst von der
 Isaria überzogen, welche dann im Centrum staubig-lappig oder
 knollig verzweigt erscheint. Die Farbe schwebt zwischen lichtbraun
 und bräunlich-fleischroth. Basidien zahlreich, hervorragend, bogig
 gekrümmt, an der Spitze je eine kugliche farblose Spore absetzend.
 C. Kalchbrenner.

Fig. 113

Leptothyrium cylindrospermum Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 678, 1864 [Bot. Zeitung **22**: 174, 1864; Hedwigia **3**: 74, 1864].

≡ *Gloeosporium cylindrospermum* (Bonord.) Sacc., Fungi italica autogr. del. 17-28: tab. 1027 [1881] 1882.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 678 (fig. 114).



Fig. 114

Dacrymyces succineus Sprée, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 680, 1864 [Bot. Zeitung **22**: 175, 1864; Hedwigia **3**: 74, 1864].

≡ *Pseudocenangium succineum* (Sprée) Dyko & B. Sutton, Canad. J. Bot. **57**(4): 372, 1979.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 680 (fig. 115).



Fig. 115

Stemphylium sphaeropodium Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 689, 1864 [Bot. Zeitung **22**: 175, 1864; Hedwigia **3**: 74, 1864].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 689 (fig. 116).



Fig. 116

Fusicladium macrosporium Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 690b, 1864 [Bot. Zeitung **22**: 175, 1864; Hedwigia **3**: 74, 1864].

≡ *Monotospora ovata* Sacc., Syll. fung. (Abellini) **4**: 299, 1886, nom. illeg. (Art. 52.1).

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 690b (fig. 117).



Fig. 117

Puccinia typhae Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 695, 1864 [Bot. Zeitung 22: 175, 1864; Hedwigia 3: 75, 1864].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 695 (fig. 118).



Fig. 118

Urocystis pompholygodes (Schltdl.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 697, 1864 [Bot. Zeitung 22: 175, 1864; Hedwigia 3: 75, 1864], nom. inval. (Art. 35.1).

≡ *Caeoma pompholygodes* Schltdl., Linnaea 1: 248 (1826).

≡ *Urocystis pompholygodes* (Schltdl.) A.A. Fisch. Waldh., Byull. Mosk. Obsch. Ispyt. Prir. 40: 257, 1867.

= *Urocystis anemones* (Pers.) G. Winter, Hedwigia 19: 160, 1880.

Notes: This is an invalid combination published on the label of Fungi Eur. Exs. 697 (fig. 119).



Fig. 119

Tilletia caries var. *agrostidis* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 7: no. 700, 1864 [Bot. Zeitung **22**: 175, 1864; Hedwigia **3**: 75, 1864].

≡ *Erysibe sphaerococca* Wallr., Fl. crypt. Germ. (Norimbergae) **2**: 213, 1833.

≡ *Uredo sphaerococca* (Wallr.) Rabenh., Deutschl. Krypt-Fl. **1** (Pilze): 4, 1844.

≡ *Tilletia sphaerococca* (Wallr.) A.A. Fisch. Waldh., Byull. Mosk. Obshch. Ispyt. Prir. **40**: 255, 1867.

Notes: This is a validly published new variety name, based on *Erysibe sphaerococca*. This variety was introduced with a reference to the latter name as basionym, see Rabenh., Fungi Eur. Exs. 700 (fig. 120). Fischer von Waldheim (l.c.) introduced the name *Tilletia sphaerococca* as “(Rabenh.)” (this is a reference to *Uredo sphaerococca* (Wallr.) Rabenh. and thus an indirect reference to *Erysibe sphaerococca* Wallr. as basionym).



Fig. 120

Cent. 8

Polyporus osseus Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 706, 1865 [Bot. Zeitung **23**: 250, 1865; Hedwigia **4**: 141, 1865; Mathem. Természettud. Közlem. **3**: 217, 1865].

≡ *Osteina obducta* (Berk.) Donk, Schweiz. Z. Pilzk. **44**: 86, 1966.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 706 (fig. 121).



Fig. 121

Pyronema marianum var. *ochraceum* Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 708, 1865 [Bot. Zeitung **23**: 250, 1865; Hedwigia **4**: 141, 1865].

Notes: This is a validly published variety with a description on the label of Fungi Eur. Exs. 708 (fig. 122).



Fig. 122

Boletus fusipes Heufl., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 712, 1865 [Bot. Zeitung **23**: 250, 1865; Hedwigia **4**: 142, 1865].

= *Suillus placidus* (Bonord.) Singer, Farlowia **2**(1): 42, 1945.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 712 (fig. 123).

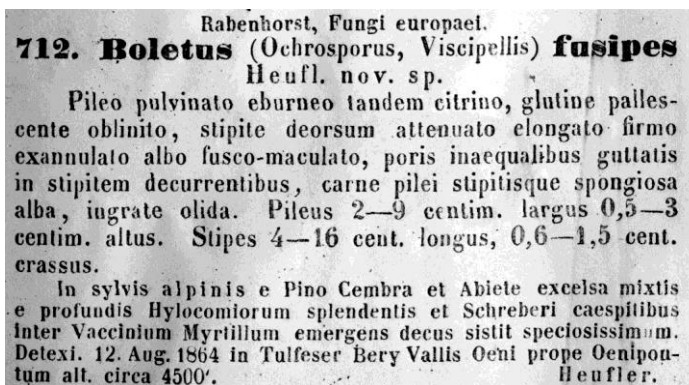


Fig. 123

Helotium rubi (Lib.) Sprée, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 717, 1865 [Bot. Zeitung **23**: 250, 1865; Hedwigia **4**: 143, 1865].

≡ *Patellaria rubi* Lib., Pl. crypt. Arduenna, fasc. (Liège) **3**(nos 201-300): no. 231, 1834.

≡ *Pezicula rubi* (Lib.) Niessl, in Rabenhorst, Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 22: no. 2122, 1876.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 717 (fig. 124).

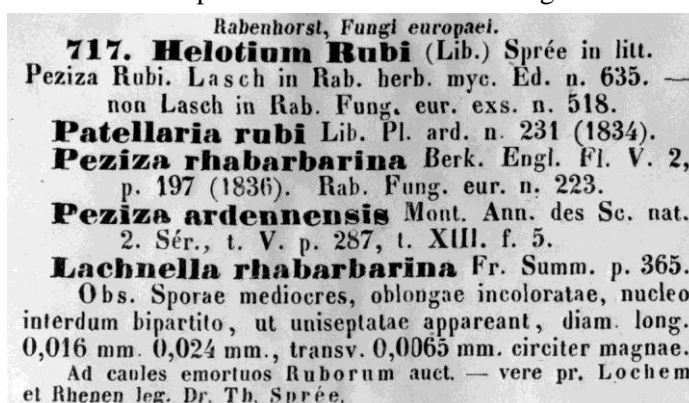


Fig. 124

Wuestneia monadelpha (Fr.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 734, 1865 [Bot. Zeitung **23**: 251, 1865; Hedwigia **4**: 143, 1865].

≡ *Sphaeria monadelpha* Fr., Syst. mycol. (Lundae) 2(2): 382, 1823.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 734 (fig. 125).



Fig. 125

Wuestneia sphinctrina (Fr.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 735, 1865 [Bot. Zeitung 23: 251, 1865; Hedwigia 4: 143, 1865].

≡ *Sphaeria sphinctrina* Fr., in Kunze & Schmidt, Mykologische Hefte (Leipzig) 2: 48, 1823 [Fr., Syst. mycol. (Lundae) 2(2): 400, 1823].

≡ *Valsa sphinctrina* (Fr.) Fr., Summa veg. Scand., Sect. Post. (Stockholm): 412, 1849.

≡ *Lopadostoma sphinctrinum* (Fr.) P.M.D. Martin, J. S. Afr. Bot. 35: 400, 1969.

= *Sphaeria dryophila* Curr., Trans. Linn. Soc. London 22: 269, 1859, nom. illeg. (Art. 53.1), non Schwein., 1832.

≡ *Anthostoma dryophilum* Sacc. (as "(Curr.) Sacc."), Syll. fung. (Abellini) 1: 308, 1882.

≡ *Diatrype dryophila* (Sacc.) Sacc., Syll. fung. (Abellini) 1: 308, 1882.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 735 (fig. 126). The valid name *Sphaeria sphinctrina* Fr. has priority for the species concerned. This is a sanctioned name and therefore not illegitimate as homonym of *Sphaeria sphinctrina* Sowerby, 1803.



Fig. 126

Sphaeria juncina Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 748, 1865 [Bot. Zeitung 23: 251, 1865; Hedwigia 4: 154, 1865].

≡ *Phaeosphaeria juncina* (Auersw.) L. Holm, Symb. Bot. Upsal. 14(3): 127, 1957.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 748 (fig. 127).



Fig. 127

Rosellinia thelena (Fr.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 757, 1865 [Bot. Zeitung 23: 251, 1865; Hedwigia 4: 154, 1865].

≡ *Sphaeria thelena* Fr., in Kunze & Schmidt, Mykologische Hefte 2: 36, 1823 [Fr., Syst. mycol. 2(2): 441, 1823].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 757 (fig. 128).

Rabenhorst, Fungi europaei.
757. Rosellinia thelena (Fr.) Awd. Mspt.
 Sphaeria thelena Fr. Syst. II. p. 441. Sl. Suec. N. 49!
 Curr. Sphaer. simpl. N. 222! (minime Desmaz. Pl. cr. de
 Fr. N. 271, quae Rosellinia aquila De Not.); Rosellinia
 andurnensis Ces. sec. De Not. Sfer. ital. N. 17!
 Asci anguste tubulosi, membrana duplici non visibili, octo-
 spori; sporae uniseriales, fuscae, impellucidae, oblique ob-
 longae, utrinque acutiusculae, hyaline mucronatae.
 In truncis vetustis prope Salem legit Jack.

Fig. 128

Cucurbitaria rabenhorstii Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 758, 1865 [Bot. Zeitung 23: 251, 1865; Hedwigia 4: 155, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 758 (fig. 129).

Rabenhorst, Fungi europaei.
758. Cucurbitaria Rabenhorstii Awd. Mspt.
 et in litt.
 Peritheciis gregariis, initio summa corticis pellicula obfectis,
 mox denudatis, superficialibus aterrimis, primum globosis,
 mox (more Nectriae Pezizae) collapsis, ostiolo minuto
 papillaeformi; paraphysibus filiformibus subconglutinatis;
 ascis anguste tubulosis, 8-sporis; sporis uniseriatis, pellu-
 cide fuscis, oblongis, triseptatis, loculis utrinque ultimis
 dilutioribus, subhyalinis, loculis mediis majoribus hic illic
 longitudinaliter septatis.
 Facie externa, excepto colore, Nectriam Pezizam
 exacte referens, forma vero sporarum cum Sphaeria pul-
 vis pyrius omnino quadrat.
 Ad cortices prope Turicum leg. Dr. Hepp.

Fig. 129

Pleospora herbarum f. *lychnidearum* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 768, 1865 [Bot. Zeitung 23: 251, 1865].

Notes: This is a validly published forma with a description on the label of Fungi Eur. Exs. 768 (fig. 130).

Rabenhorst, Fungi europaei.
768. Pleospora herbarum Rabenh.
 Forma: Lychnidearum, peritheciis elliptico-innatis, ap-
 planatis, nigris, ostiolo papillato, sporis maturis $\frac{1}{8}''' =$
 $0,00133''$ longis.
 In caulibus emortuis Lychn. Viscariae ad Dresdam legi ipse.

Fig. 130

Septonema concentricum Berk. & Broome, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 777, 1865 [Bot. Zeitung 23: 251, 1865; Hedwigia 4: 155, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 777 (fig. 131).

Rabenhorst, Fungi europaei.
777. Septonema concentricum B. & B. Mss.
 Sessile, superficiale, sparsum aut confluens, orbiculare,
 primo totum candidum, dein centro, seu disco, ochraceum,
 0,01 ad 0,035 unciae latum. Floccis concatenatis, e
 stromate pulvinato, compacto, fibroso, pallido, undique irra-
 dianibus. Sporis rectis, continuis, albis, 0,0007 unciae
 longis, 0,00015 unciae latis, guttulis oleosis repletis. Sporis
 majoribus, nempe 0,001 unciae longis; 0,0003 unciae latis,
 heterogeneis (?) aliquando intermixtis.
 Ad assulas laricinas et pineas prope Lucknam, Willshire,
 Dec. 1864 leg. C. E. Broome.

Fig. 131

Ascobolus depauperatus Berk. & Broome, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 780, 1865 [Bot. Zeitung **23**: 252, 1865; Hedwigia **4**: 156, 1865; Ann. Mag. Nat. Hist., Ser. 3, **15**: 448, 1865].

≡ *Saccobolus depauperatus* (Berk. & Broome) E.C. Hansen, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn **59**: 293 [1876] 1877.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 780 (fig. 132).



Fig. 132

Oidium succisae Karl, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 8: no. 791, 1865 [Bot. Zeitung **23**: 252, 1865], nom. nud.

= *Podosphaera dipsacacearum* (Tul. & C. Tul.) U. Braun & S. Takam. [as “*dipsacearum*”], Schlechtendalia **4**: 28, 2000.

Notes: The duplicate deposited at HAL has been re-examined and turned out to be *Podosphaera dipsacacearum* (conidia in chains with crenate outline).

Cent. 9

Valsa megas Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 815, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 157, 1865].

Notes: This is a validly published species with a brief diagnosis on the label of Fungi Eur. Exs. 815 (fig. 133), comparing *V. megas* with *V. turgida* (Pers.) Fr.



Fig. 133

Mamiana ciliata (Pers.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 816, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 157, 1865].

≡ *Sphaeria ciliata* Pers., Observ. mycol. (Lipsiae) **2**: 67 [1799] 1800.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 816 (fig. 134).



Fig. 134

Valsaria taleola (Fr.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 821, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 157, 1865].

≡ *Sphaeria taleola* Fr., Syst. mycol. (Lundae) **2**(2): 391, 1823.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 821 (fig. 135).

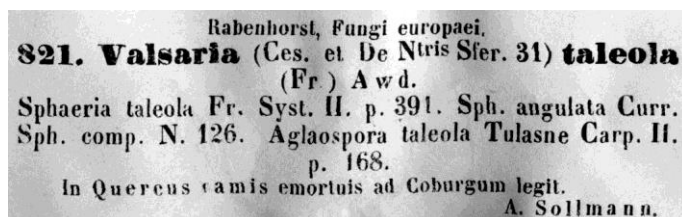


Fig. 135

Rhaphidospora oenotherae Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 823, 1865 [Bot. Zeitung **23**: 288, 1865], nom. nud.

≡ *Rhaphidospora oenotherae* Auersw., in Zopf & Sydow, Mycoth. March., Cent. 1: no. 79, 1880.

Notes: Auerswald (in Rabenh., Fungi Eur. Exs. 823, see fig. 136) introduced this name without any description, but with a reference to "*Sphaerolina xantholeuca* (Kunze) Fuckel, Jahrb. Nassauischen Vereins Naturk. **15**: 77, 1860" (excl. syn.). However, this cannot be seen as reference to a previous description since Fuckel (l.c.) does not contain any description.



Fig. 136

Sphaerella suspecta Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 833, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 157, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 833 (fig. 137).



Fig. 137

Capnodium corni Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 835, 1865 [Bot. Zeitung **23**: 288, 1865].

Notes: This is a validly published species with a diagnosis on the label of Fungi Eur. Exs. 835 (fig. 138).



Fig. 138

Asteroma hyperici Lasch, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 836, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 158, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 836 (fig. 139).

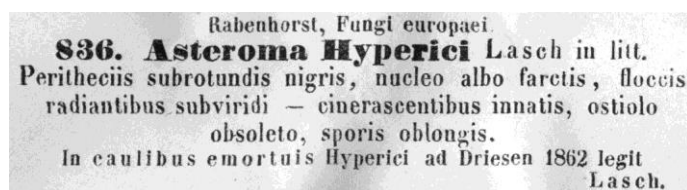


Fig. 139

Sphaerella cinerascens Rabenh. (as “(Fuckel) Rabenh.”), Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 845, 1865 [Bot. Zeitung **23**: 288, 1865].

≡ *Sphaeria cinerascens* Fuckel, Fungi Rhen. Exs., Fasc. 9: no. 824, 1863, nom. illeg. (Art. 53.1), non Schwein., 1832.

= *Venturia inaequalis* (Cooke) G. Winter, in Thümen, Mycoth. Univ., Cent. 3: no. 261, 1875.

Notes: This is a new name based on *Sphaeria cinerascens* Fuckel, 1863, non Schwein., 1832 (fig. 140).



Fig. 140

Peronospora filicum Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 848, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 158, 1865], nom. nud.

Notes: This species was published without any description. A downy mildew is not present in the original material, but the rust *Hyalopsora aspidiotus* (Peck) Magnus has been found (see Constantinescu 1991).

Septoria badhami var. *fraxini* Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 852, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 158, 1865], nom. nud.

≡ *Septoria badhami* var. *fraxini* Auersw. ex Sacc., Syll. fung. **3**: 495, 1884.

= *Septoria fraxini* Desm., Pl. Crypt. Nord France, Edn 1, 1: no. 1086, 1840, nom. illeg. (Art. 53.1), non (DC.) Fr., 1829.

Notes: Auerswald (in Rabenh., Fungi Eur. Exs. 852, see fig. 141) failed to give a diagnosis or description for var. *fraxini*, and there is no reference to the name *Septoria fraxini* Desm., which was later added as synonym by Saccardo (1884: 495).



Fig. 141

Septoria euphorbiae Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 854, 1865 [Bot. Zeitung **23**: 288, 1865; Hedwigia **4**: 158, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 854 (fig. 142).

Rabenhorst, Fungi europaei.
854. Septoria Euphorbiae Kalchbr.
 Sporidiis tenuissimis, flexuosis, granulosis!
 In foliis Euphorbiae sylvaticae, autumnno legit
 C. Ralchbrenner.

Fig. 142

Libertella punicea Hoffm., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 861, 1865 [Bot. Zeitung 23: 295, 1865; Hedwigia 4: 158, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 861 (fig. 143).

Rabenhorst, Fungi europaei.
861. Libertella punicea (Hoffm.).
 Forma quaedam spermogonifera, ab affinibus colore puniceo
 et spermatis minutissimis sat diversa!
 Giessen, in quercibus americanis horti botanici legit
 H. Hoffmann.

Fig. 143

Lamyella nigra Bonord., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 868, 1865 [Bot. Zeitung 23: 295, 1865; Hedwigia 4: 159, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 868 (fig. 144).

Rabenhorst, Fungi europaei.
868. Lamyella Fries. S. v. S. p. 410.
 Ch. gen. emend.: Conceptaculum parvum erumpens globulare, subgelatinosum, loculosum; loculamentis intus hyphis virgato-ramosis vestitis; sporis subtilissimis, apicibus ramulorum innatis, ex ostioliis minutissimis globuli gelatinosi instar prorumpentibus; mycelio intra corticem repente.
Lamyella nigra Bonord.
 Syn. Sphaeria sphaerocephala? Fr. Syst. II. p. 497.
 Conceptaculis nigris rotundatis, intus hyalinis griseis epidermide cinctis; loculamentis difformibus numerosis; ostioliis minutissimis globosis; sporis minimis hyalinis oblongo-cylindricis.
 Hab. in ramis junioribus Mori albae et nigrae in Guestphalia C. Bonorden.
 Anmerk. Das Conceptaculum besteht aus kleinen eckigen Zellen, enthält keine besonderen Perithezien, sondern nur Solucamente, welche mit ruthenförmigen, kurzen, sehr feinen Hyphen ausgekleidet sind.

Fig. 144

Helminthosporium salisburiae Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 875, 1865 [Bot. Zeitung 23: 295, 1865; Hedwigia 4: 159, 1865].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 875 (fig. 145).

Rabenhorst, Fungi europaei.
875. Helminthosporium Salisburiae
 Rabenh. Mspt.
 Hyphae torulosae, diam. $\frac{2}{17}$ — $\frac{1}{85}$ mm. = $\frac{4}{91}$ — $\frac{1}{419}$ '''
 modo regulariter articulatis (articulis diam. 2—3 plo longioribus), modo irregulariter articulatis (articulis diam. ad 30 plo longioribus), luteo-fuscis, in caespites minutos olivaceo-atros aggregatis, sporis initio ovoideis hyalinis biguttatis, postea majoribus, bi-triseptatis, fusciscentibus.
 In Salisburia adiantifolia in horto arcis prope Salem legit Jack.

Fig. 145

Phyllosticta coluteae Fiedler, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 9: no. 877, 1865 [Bot. Zeitung **23**: 295, 1865; Hedwigia **4**: 159, 1865], nom. nud.

Notes: This name was introduced as spermatial morph of “*Sphaeria coluteae* Rabenh.” but without any description or diagnosis (fig. 146). Spermogonia and immature mycosphaerella-like ascomata are present in the original material (see van der Aa & Vanev 2002: 156).



Fig. 146

Cent. 10

Notes: Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10, 1866 is lacking at HAL. Therefore, copies of the labels concerned have been prepared on the basis of duplicates deposited in the herbaria in Berlin (B) and München (M).

Peziza delitschiana Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 912, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 189, 1866].

≡ *Coronellaria delitschiana* (Auersw.) P. Karst., Not. Sällsk. Fauna Fl. Fenn. Förh. **11**: 248, [1871] 1870.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 912 (fig. 147).



Fig. 147

Peziza carestiana Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 913, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 189, 1866].

≡ *Unguicularia carestiana* (Rabenh.) Höhn., Sitzungsber. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl., Abt. 1, **118**: 391, 1909.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 913 (fig. 148).



Fig. 148

Sporormia fleischhakii Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 921, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 189, 1866].

≡ *Gnomonia fleischhakii* (Auersw.) Auersw., in Gonnermann & Rabenhorst, Myc. Europ. Pyren. 5-6: 26, 1869.

≡ *Preussia fleischhakii* (Auersw.) Cain, Canad. J. Bot. 39: 1640, 1961.

≡ *Diaporthe fleischhakii* (Auersw.) M. Monod, Beih. Sydowia 9: 219, 1983.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 921 (fig. 149).

Rabenhorst, Fungi europaei.
921. Sporormia Fleischhakii Awd.
 in litt. et sched.
 Pyrenia sparsa v. gregaria, carbonacea, tenuia, fragilia, nitidula, globosa v. hemisphaerica, pleraque absque ullo ostiolo, variae magnitudinis, $\frac{1}{5}$ – $\frac{1}{2}$ millim. aequantibus; ascis creberrimis, obovatis v. subglobosis tenerimis, stipitatis, 8-
 sporis; sporularum catenis densissime parallele stipatis, trameris, sed facillime diffluentibus.
 Hungaria, in lignis putrescentibus rejectamentorum leg.
 C. Kalchbrenner.

Fig. 149

Nectria rosellinii Carestia, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 923, 1866 [Bot. Zeitung 24: 299, 1866; Hedwigia 5: 190, 1866].

≡ *Thyronectria rosellinii* (Carestia) Jaklitsch & Voglmayr, Persoonia 33: 204, 2014.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 923 (fig. 150).

Rabenhorst, Fungi europaei.
923. Nectria Rosellinii Carest. in litt.
 Pyrenia obovata, collabescentia, in vivo vitellino-coccinea, laevia; contextu minute vesiculoso. — Asci polyspori (? specim. immatur.), cylindricei, apice rotundato, $\frac{3}{5}$ – $\frac{4}{5}$ millim. longi, $\frac{5}{8}$ – $\frac{5}{6}$ millim. lati. — Paraphyses gelatinosae, crassiusculae, filiformes. — Quadantenus refert N. decolorantem.
 Riva: 1864. In ramis Abietis pectinatae dejectis leg.
 Abb. Carestia.

Fig. 150

Rosellinia obliquata (Sommerf.) Rabenh., Bot. Zeitung 24: 299, 1866.

≡ *Sphaeria obliquata* Sommerf., Suppl. Fl. lapp. (Oslo): 213, 1826.

Notes: This is a valid combination published by Rabenhorst in Bot. Zeitung 24: 299, 1866, with reference to Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 926, 1866. However, no. 926 occurs twice in Hedwigia on page 299, but in the exsiccata, no. 926 contains *Pleosporopsis strobilorum* (fig. 151). Therefore, the combination *Rosellinia obliquata* was first published in Rabenhorst's publication in Botanische Zeitung, 1866.

Rabenhorst, Fungi europaei.
926. Pleosporopsis strobilorum Oerst.
 Bidrag til Svampenes Udviklingshist. in Naturh. Foren. Vidensk. Meddelelser 1865 p. 28 Tab. V. et VI.
 In squamis strobilorum Pini montanae ad Hafniam leg.
 A. S. Oersted.

Fig. 151

Gnomonia fimbriata (Pers.) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 928, 1866 [Bot. Zeitung 24: 299, 1866; Hedwigia 5: 190, 1866].

≡ *Sphaeria fimbriata* Pers., Observ. mycol. (Lipsiae) 1: 70, 1796 [: Fr., Syst. mycol. 2(2): 436, 1823].

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 928 (fig. 152).

Rabenhorst, Fungi europaei.

928. Gnomonia fimbriata Awd.

Sphaeria fimbriata Pers., Fr. syst. II. p. 436 cum synonymis. *Mamiania fimbriata* Ces. & DeNot. Schem. Sf. p. 37! *Pyrenia sparsa* v. *conferta* epidermide nigresceta tecta, libera, neutiquam in stroma connata v. stromate tecta, ut ell. Ces. et DeN. opinati videatur, qui *Gnomoniam* typicam inter *Mamianas* suas (*Valsarias* meas) e grege *Valsacearum* enumeraverunt. — Asci tenerrimi clavati 8-spori, sporis biserialibus hyalinis lacrymaeformibus, apicem versus, uniseptatis.

Fig. 152

Valsaria bitorulosa (Berk. & Broome) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 932, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 190, 1866].

≡ *Valsa bitorulosa* Berk. & Broome, Ann. Mag. Nat. Hist., Ser. 3, **3**: 367, 1859.

≡ *Melanconis chrysostroma* (Fr.) Tul. & C. Tul., Select. fung. carpol. (Paris) **2**: 125, 1863.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 932 (fig. 153).

Rabenhorst, Fungi europaei.

932. Valsaria bitorulosa (Berk. et Br.)

De Ntrs.

Valsa bitorulosa Berk. et Br. Brit. Fung. N. 861.

T. X. F. 15.

Ad Carpini Betuli ramos. Stighgate, London, leg. 1866
M. C. Cooke.

Fig. 153

Valsaria stilbostoma (Berk. & Broome) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 933, 1866 [Bot. Zeitung **24**: 299, 1866].

≡ *Sphaeria stilbostoma* Fr., K. Svenska Vetensk-Akad. Handl., Ser. 3, **39**: 102, 1818 [Fr., Syst. mycol. **2**(2): 403, 1823].

≡ *Melanconis stilbostoma* (Fr.) Tul. & C. Tul., Select. fung. carpol. (Paris) **2**: 115, 1863.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 933 (fig. 154).



Fig. 154

Ptilidium fuliginosum (Pers. : Fr.) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 938, 1866 [Bot. Zeitung **24**: 299, 1866; Hedwigia **5**: 191, 1866].

≡ *Sphaeria fuliginosa* Pers., Observ. mycol. (Lipsiae) **2**: 68, 1800 [Fr., Syst. mycol. **2**(2): 423, 1823].

≡ *Tympanis fuliginosa* (Pers.) Wallr., Fl. crypt. Germ. (Norimbergae) **2**: 429, 1833.

≡ *Godronia fuliginosa* (Pers.) Seaver, Mycologia **37**(3): 344, 1945.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 938 (fig. 155).

Rabenhorst, Fungi europaei.
938. *Pilidium fuliginosum* Awd. Mpt.
Tympanis fuliginosa Wallr. Comp. II. p. 429. *Pilidium carbonaceum* Lib. sec. B. B. n. 442. (nomen ineptum, quum peridium minime carbonaceum, imo membranaceum!)
 Ascis nullis (!), sporidiis fusiformibus, 3-septatis, hyalinis, plus minusve curvulis. *Sphaeria fuliginosa* P. syn. p. 52!
 Fr. syst. II. p. 423; Rabenh. herb. myc. ed I. n. 1240.
Cenangium fuliginosum Fr. S. Veg. Sc. p. 364. (cf. Fr. El. I. p. 86, ubi cl. Fries *Cenangii* naturam opinatur. Monasterii in ramis Salicis fragilis, April 1864. leg. Nitschke.

Fig. 155

Hendersonia mori Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 939, 1866 [Bot. Zeitung 24: 300, 1866; Hedwigia 5: 191, 1866].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 939 (fig. 156).

Rabenhorst, Fungi europaei.
939. *Hendersonia Mori* Kalchbr.
 Pyreniis minutis dense gregariis, sporidiis oblongis, quadrilocularibus (loculo secundo plerumque transversim septato), ad dissepimenta haud constrictis, fuscidulis hyalinis. — In ramulis Mori gelu necatis ad pagum Haraslocz Scepusii.
 Ist nicht etwa eine weiter entwickelte *Diplodia Mori*, wie ich anfänglich vermuthete. Diese findet sich gleichzeitig mit ihr an den dickeren Zweigen, hat aber größere, stets nur zweikammrige, im Alter sehr dunkle, fast undurchsichtig werdende Sporen, während die unseres Pilzes kleiner, schlanker, vierzellig, stets hellbraun und durchsichtig sind.

Fig. 156

Sphaerella buxi Auersw. (as "(Desm.) Auersw."), Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 940, 1866 [Bot. Zeitung 24: 300, 1866; Hedwigia 5: 191, 1866].

≡ *Sphaeria buxi* Desm., Ann. Sci. Nat., Bot., Sér. 2, 19: 354, 1843, nom. illeg. (Art. 53.1), non (Alb. & Schwein.) DC. 1815.

Notes: *Sphaerella buxi* is a validly published new name based on *Sphaeria buxi* Desm., non (Alb. & Schwein.) DC. 1815 (fig. 157).

Rabenhorst, Fungi europaei.
940. *Sphaerella Buxi* Awd.
Sphaeria Buxi Dmz. Ann. sc. nat. 2. XIX. p. 354, nec DeC. Crypt. de Fr. ed I. N. 1280. Paraphysibus nullis; ascis clavatis 8-sporis, membrana duplici non visibili; sporis incumbenti-biseriatis, oblongis, monoblastis, lutescentibus; nucleolis 2—3 variæ magnitudinis.
 Leipzig, ad folia Buxi sempervirentis adhuc virentia. 1. Oct. 1865, leg. Auerswald.

Fig. 157

Sphaerella ditricha (Fr.) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 943, 1866 [Bot. Zeitung 24: 300, 1866; Hedwigia 5: 191, 1866].

≡ *Sphaeria ditricha* Fr., Syst. mycol. (Lundae) 2(2): 515, 1823.

≡ *Venturia ditricha* (Fr.) P. Karst., Bidr. Känn. Finl. Nat. Folk 23: 188, 1873.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 943 (fig. 158).

Rabenhorst, Fungi europaei.

943. Sphaerella ditricha Awd. in litt. et Mspt. Sphaeria ditricha Fr. syst. II. 515; Scler. suec. n. 54! Vermicularia ditricha Fr. S. Veg. Sc. Sphaeria chlorospora Ces. in Rbh. f. eur. 48. c. ic! Sphaerella chlorospora Ces. et De Not. Schem. 65; De Not. Ster. it. N. 97! Sphaeria cinerascens Fuck f. rhen. 824! Sphaerella cinerascens Rbh. f. eur. n. 848. Ascis paraphysibus obvalatis, sessilibus, basi ventricose inflatis, apicem versus angustatis, octosporis; sporis in superiore ascii parte uniseriatis, in inferiore biserialiter stipatis, chlorino-fuscis, pellucidis, subbiscoctiformibus (more Buelliarum), medio vel plus minusve extra medium uniseptatis.

Die Pyrenien zeigen bald an ihrem Scheitel einige Haare, bald sind sie kahl; selbst Cesati zeichnet (cf. fung. eur. n. 48) dieselben mit Haaren, während De Not. St. it. n. 97 die Pyrenien vollkommen kahl zeichnet. Die, wie es scheint, ziemlich verbreitete Art variiert sehr in der Lage der Scheidewand: auf Birkenblättern sah ich dieselbe ziemlich regelmäßig in der Mitte; auf den Blättern von Salix alba (Sph. chlorospora) zeigt sich bereits die Neigung, die Mitte zu verlassen und die schon hier und da etwas kürzere Hälfte wird etwas breiter als die längere; auf den Blättern von Sorbus Aria (Sph. cinerascens) und Fraxinus tritt dieses Verhältniß noch weit entschiedener hervor, weil hier die Scheidewand die Mitte ganz deutlich verlassen hat; die kürzere Sporenhälfte scheint auf der längeren wie eine Nütze zu sitzen.

Auf diese in einander übergehenden Formen (die S. chlorospora zeigt am deutlichsten den Uebergang) eigene Arten zu begründen, erscheint mir mehr als unräthlich; es müßten denn mit ungleich größerem Rechte die sämmtlichen Formen der Sphaerella maculaeformis zu Arten erhoben werden u. s. w.

Auerwald.

NB. Cesati hat auf der Etiquette zu seiner Sphaeria chlorospora die Schläuche verkehrt gezeichnet, d. i. den dicken Theil nach oben statt nach unten!

In fol. siccis Fraxini foliis crispatis, in hortis ad Münster, autumnno 1863 leg. Nitschke.

Fig. 158

Sphaerella errabunda (Roberge ex Desm.) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 944, 1866 [Bot. Zeitung 24: 307, 1866; Hedwigia 5: 192, 1866].

≡ *Sphaeria errabunda* Roberge ex Desm., Ann. Sci. Nat., Bot., Sér. 3, 10(2): 355, 1848.

≡ *Apiognomonia errabunda* (Roberge ex Desm.) Höhn., Ann. Mycol. 16(1/2): 51, 1918.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 944 (fig. 159).

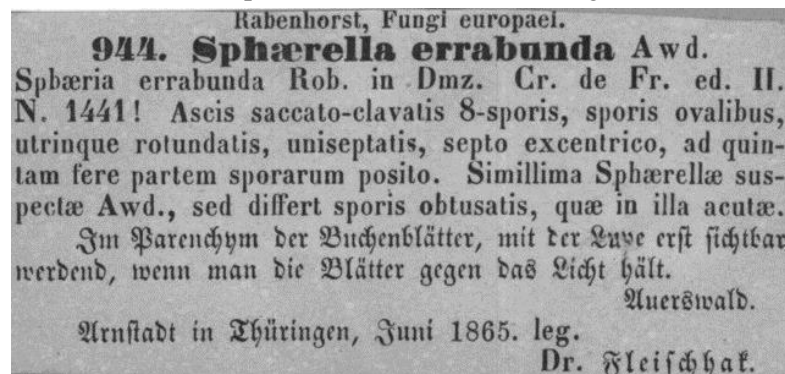


Fig. 159

Sordaria macrospora Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 954, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **5**: 192, 1866].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 954 (fig. 160).

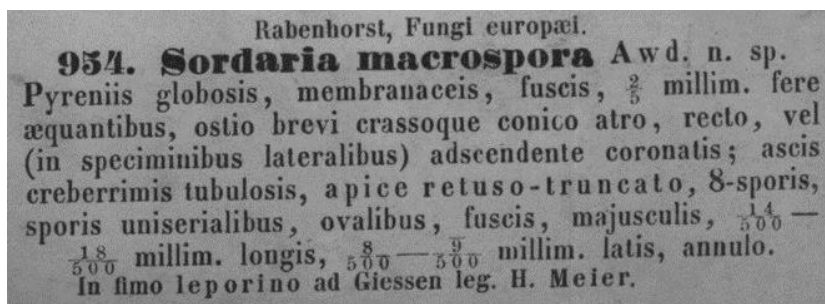


Fig. 160

Sphaeropsis ilicis (Fr.) Auersw., Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 956, 1866 [Bot. Zeitung **24**: 307, 1866].

≡ *Xyloma ilicis* Schleich., Cat. pl. Helv.: 84, 1821, nom. illeg. (Art. 53.1), non Fr., 1818.

≡ *Sphaeria ilicis* Fr. (as "(Schleich.) Fr."), Syst. mycol. (Lundae) **2**(2): 501, 1823, non *Phyllosticta ilicis* (Desm.) Allesch., 1898.

= *Phyllosticta philoprina* (Berk. & M.A. Curtis) Wikee & Crous, Stud. Mycol. **76**: 23, 2013.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 956 (fig. 161).

Rabenhorst, Fungi europæi.
956. Sphaeropsis ilicis (Fr.) Awd. Mspt.
Sphaeria ilicis Fr. Syst. II. p. 501. Sph. (Diplodia) ilicis
 Curr. Sph. simpl. N. 343. c. icon. Diplodia ilicis Fr.
 Summ. Sporidiis pallidis subpyriformibus, 12—16 millim.
 longis, 8 mm. latis.
 In fol. Ilicis prope Homdorf ad Münster, Mart. 1863 leg.
 Dr. Nitschke.
 NB. *Sphaeropsis pumila* Mong. Lév. in Ann. des sc. nat. p. 256
 diff. spor. elongatis sublinearibus.

Fig. 161

Phoma miribelii (Fr.) Auersw. (as "*miribelii*"), Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 958, 1866 [Bot. Zeitung **24**: 307, 1866].

≡ *Sphaeria miribelii* Fr., Linnaea **5**: 548, 1830.

≡ *Sphaeropsis miribelii* (Fr.) Lév., Ann. Sci. Nat., Bot., Sér 3, **5**: 296, 1846.

= *Guignardia miribelii* Aa, Persoonia **8**(3): 283, 1975.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 958 (fig. 162).

Rabenhorst, Fungi europæi.
958. Phoma miribelii Awd.
 = *Sphaeropsis miribelii* Lév. Ann. sc. nat. **3**. v. p. 296.
Sphaeria delitescens Wllr. (minime vero *Sphaeropsis* Can-
 dollei B. B. 423, quæ vera *Sphaeropsis*).
 Leipzig, ad folia Buxi sempervirentis 1. Oct. 1865.
 Auerswald.

Fig. 162

Phoma dilleniana Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 960, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **5**: 192, 1866].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 960 (fig. 163).

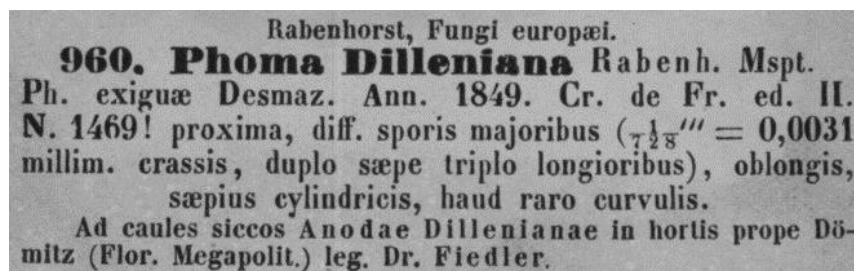


Fig. 163

Phoma atomus (Lév.) Auersw., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 961, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **5**: 192, 1866].

≡ *Sphaeropsis atomus* Lév., Ann. Sci. Nat., Bot., Sér. 3, **9**: 257, 1848.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 961 (fig. 164).



Fig. 164

Ascobolus cesatii Carestia, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 976, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **6**: 8, 1867].

≡ *Pezizula cesatii* (Carestia) P. Karst., Bidr. Känn. Finl. Nat. Folk **19**: 83, 1871.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 976 (fig. 165).



Fig. 165

Verticillium buxi (J.C. Schmidt ex Link) Auersw. & Fleischh., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 979, 1866 [Bot. Zeitung **24**: 307, 1866; Hedwigia **6**: 9, 1867].

≡ *Fusidium buxi* J.C. Schmidt ex Link, in Willdenow, Sp. pl., Edn 4, **6**(2): 97, 1825.

≡ *Clonostachys buxi* (J.C. Schmidt ex Link) Schroers, Stud. Mycol. **46**: 193 (2001).

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 979 (fig. 166).

Rabenhorst, Fungi europaei.

979. Verticillium Buxi Awd. et Fleischk.
Fusidium Buxi Schm. Fusisporium Buxi Fr. Syst. ex p.
Fusidium Buxi Rabenh. Handb. ex p. Penicillium roseum
Berk. et Broome Brit. Fung. N. 535.

V. hyphis fertilibus erectis, septatis, furcato — aut
ternato — ramosis; sporis oblongis, integris, apice ramo-
rum verticillatis.

Lipsiae, ad folia Buxi sempervirentis in consortio omnium
fungorum, qui apud Chaetostroma Buxi a me nominati, sed pariter
ab his speciminibus remoti sunt. Auerswald.

Fig. 166

Sciniatosporium lycii Kalchbr., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 985, 1866 [Bot. Zeitung **24**: 308, 1866; Hedwigia **6**: 9, 1867].

≡ *Stigmia lycii* (Kalchbr.) B. Sutton, Trans. Brit. Mycol. Soc. **58**(1): 166, 1972.

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 985 (fig. 167).

Rabenhorst, Fungi europaei.

985. Sciniatosporium Lycii Kalchbr.

Stroma, — sub epidermide decolorata, tuberculoso inflata
et demum rima longitudinali hiante, — circumscriptum vel
confluendo subeffusum, planum, centro nonnisi tuberculato-
elevatum, carneo-rubellum, carnosum fibrosum, fibris
solidis, septatis, dense contextis. — Sporidia oblonga,
plurilocularia, ad septa parum constricta, stipite brevi, va-
lido, sporophoris adnata, fusca, diaphana, caespites nigri-
cantes effusos formantia. — In ramulis junioribus Lycii,
europaei, gelu necatis, prope Harakocz Scepusii. Vere.

C. Kalchbrenner.

Wenn ich nicht irre, hat Herr G. v. Niesl denselben Pilz
in seinem „Pilze und Myxomyceten Nöhrens“ als Sporides-
mium beschrieben und abgebildet. Die Rechtfertigung meiner
Ansicht und meiner anderweitigen Beobachtungen über den ge-
netischen Zusammenhang der auf Lycium wachsenden Pilze werde
ich wohl später in der „Hedwigia“ geben können. C. K.



a. Fibræ stromatis. b. Sporæ.

Fig. 167

Dicaeoma prunorum (Link) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 990, 1866 [Bot. Zeitung **24**: 308, 1866; Hedwigia **6**: 10, 1867].

≡ *Puccinia prunorum* Link, in Willdenow, Sp. pl., Edn 4, **6**(2): 82, 1825.

= *Tranzschelia pruni-spinosae* (Pers.) Dietel, Ann. Mycol. **20**(1/2): 31, 1922.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 990 (fig. 168).



Fig. 168

Puccinia reticulata de Bary, in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 993, 1866 [Bot. Zeitung 24: 308, 1866; Hedwigia 6: 10, 1867].

Notes: This is a validly published species with a description on the label of Fungi Eur. Exs. 993 (fig. 169).



Fig. 169

Puccinia prenanthis-tenuifoliae Ces., in Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 996, 1866 [Bot. Zeitung 24: 308, 1866], nom. nud.

Uromyces leguminosarum (Rabenh.) Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 998, 1866 [Bot. Zeitung 24: 308, 1866].

≡ *Caeoma leguminosarum* Link, in Willdenow, Sp. pl., Edn 4, 6(2): 61, 1825, nom. illeg. (Art. 53.1), non *Caeoma leguminosarum* (Link) Schldl., 1824.

≡ *Uredo leguminosarum* Rabenh., Deutschl. Krypt.-Fl. (Leipzig) 1: 27, 1844.

Notes: This is a valid combination published on the label of Fungi Eur. Exs. 998 (fig. 170).

Uromyces leguminosarum f. *cytisi* Rabenh., Fungi Eur. Exs. (Klotzschii Herb. Viv. Mycol. Continuatio, Ed. Nova, Ser. Sec.), Cent. 10: no. 998, 1866 [Bot. Zeitung 24: 308, 1866].

Notes: This is a valid forma published on the label of Fungi Eur. Exs. 998 (fig. 170) as substrate (host) forma.



Fig. 170

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