

Check-list for scientific names of common parasitic fungi

Series 1b: Fungi on trees and shrubs; additions

G. H. BOEREMA and ADRIANA A. VERHOEVEN

Plant Protection Service (PD), Wageningen, the Netherlands

Accepted 26 February 1973

Abstract

This list is a continuation of Series 1a (Neth. J. Pl. Path. 78, Suppl. 1, 1972), an account of the nomenclature of common parasitic fungi on trees and shrubs as used in official publications of the Netherlands Society of Plant Pathology and the Netherlands Ministry of Agriculture and Fisheries.

Introduction

In Series 1a of this check-list (Neth. J. Pl. Path. 78, Suppl. 1, 1972) an account is given of the nomenclature of 170 common parasitic fungi on trees and shrubs. In the present publication, series 1b, the nomenclature of another 35 common fungi on trees and shrubs is documented. The species are again selected in agreement with the Committee for Dutch Names of Plant Diseases ('Commissie voor Nederlandse Namen van Plantenziekten'). The senior author is a member of this committee of the Netherlands Society of Plant Pathology. The recognized scientific names should be used in the official publications of the Netherlands Society of Plant Pathology¹ and the Netherlands Ministry of Agriculture and Fisheries.

For explanations of the various symbols and abbreviations used we refer to the preceding paper. References in that paper to Articles of the 'Edinburgh Code' may also be read as references to the same Articles of the recently published 'Seattle Code' (Regnum veg. 82, 1972), sanctioned by the eleventh International Botanical Congress, Seattle, August 1969.

¹ See, for instance, the recently published lists of Dutch names of diseases of cultivated trees and shrubs (Gewasbescherming 3 (1), 1972) and fruit crops (Gewasbescherming 4 (2), 1973).

BOTRYOSPHAERIA QUERCUUM (Schw.) Sacc.

Botryosphaeria quercuum (Schw.) Saccardo in Sylloge Fung. 1: 456, 457. 1882.

≡ *Sphaeria quercuum* Schweinitz in Schr. naturf. Ges. Leipzig 1: 40. 1822 [= Synopsis Fung. Car. sup.].

= *Physalospora cydoniae* G. Arnaud in Annls Éc. natn. Agric. Montpellier 12: 9. 1912.

= *Physalospora obtusa* (Schw.) Cooke in Grevillea 20: 86. 1892.

≡ *Sphaeria obtusa* Schweinitz in Trans. Am. phil. Soc. II, 4: 220. 1832 ["1834"] [= Synopsis Fung. Am. bor.].

= *Physalospora malorum* Shear, N. E. Stevens & M. S. Wilcox in J. agric. Res. 28: 596. 1924; in Mycologia 17: 100. 1925.

stat. con. **BOTRYODIPLODIA JUGLANDICOLA** (Schw.) Sacc.

Botryodiplodia juglandicola (Schw.) Saccardo in Sylloge Fung. 3: 377. 1884.

≡ *Sphaeria juglandicola* Schweinitz in Schr. naturf. Ges. Leipzig 1: 37. 1822 [= Synopsis Fung. Car. sup.]; Fries, Syst. mycol. 2 [Sect. 2]: 385. 1823.

= *Botryodiplodia malorum* (Berk.) Petrak & H. Sydow in Beih. Repert. Spec. nov. Regni veg. 42 [Bogen 10]: 148. 1926 [= Gatt. Pyrenomyz. Sphaerops. Melancon. I].

≡ *Sphaeria malorum* Berkeley in [Sm.] Engl. Flora 5 (2): 257. 1836.

≡ *Spaeropsis malorum* (Berk.) Berkeley, Outl. Br. Fungol. 316. 1860.

Note: There has been much confusion about the nomenclature and species concept of this fungus, see the discussions by Petrak & H. Sydow (l.c.) (conidial state) and van Zinderen Bakker, Investig. Morph. Phys. *Physalospora cydoniae* 1935 [Diss. Amsterdam] (perfect and conidial state). In this paper the species is treated in agreement with the concept of von Arx & Müller in Beitr. KryptogFlora Schweiz 11 (1): 31–36. 1954. These authors list more than a hundred synonyms for the perfect state. For descriptions and synonyms of the conidial state see Petrak & H. Sydow (l.c.) and Zambettakis in Bull. Soc. mycol. Fr. 70: 310. 1954. For cultural characters see van Zinderen Bakker (l.c.).

CHALAROPSIS THIELAVIOIDES Peyron.

Chalaropsis thielavioides Peyronel in Staz. sper. agr. ital. 49: 585–586. 1916.

Note: For description and hosts see Ellis, Dematiac. Hyphom. 63. 1971. For literature and pathogenicity see Brooks, Pl. Dis. 380. 1953 and Boerema in Versl. Meded. plziektenk. Dienst Wageningen 134 (Jaarb. 1959): 158–161. 1960.

CRYPTOSPORELLA VITICOLA Shear

Cryptospora viticola Shear in Phytopathology 1: 119. 1911 [as comb. nov. of the conidial name *Fusicoccum viticolum* Reddick, see below].

stat. con. **PHOMOPSIS VITICOLA** (Sacc.) Sacc.

Phomopsis viticola (Sacc.) Saccardo in Annls mycol. 13: 118. 1915 [as 'P. v. Sacc.', but to be considered as new combination, see Trotter in Sylloge Fung. 25: 138. 1931].

≡ *Phoma viticola* Saccardo in *Michelia* 2 (1): 92. 1880.
H = *Phomopsis viticola* (Reddick) Goidànich in *Atti R. Accad. naz. Lincei Rc. VI*, 26: 110. 1937.

≡ *Fusicoccum viticolum* Reddick in *Bull. Cornell Univ. agric. Exp. Stn* 263: 331. 1909.

Note: For description and nomenclature of the conidial state see Pine in *Phytopathology* 48: 192–196. 1958. For disease symptoms and biology see Bolay, Semecnik & Ducrot in *Agric. romande* 7: 45–50. 1968, and Gärtel in *Weinberg Keller* 19: 13–79. 1972. The perfect state has not yet been found in Europe.

DIAPORTHE ERES Nitschke

Diaporthe eres Nitschke, *Pyrenom. Germ. Lief.* 1: 245. 1867.

= *Diaporthe controversa* (Desm.) Nitschke ex Fuckel in *Jb. nassau. Ver. Naturk.* 25–26: 319. 1871 [= *Symb. mycol. Nachtr.* I].

≡ *Sphaeria controversa* Desmazières in *Annls Sci. nat. (Bot.)* II, 17: 102–103. 1842 [antedates *Diaporthe eres* Nitschke, see note].

= *Diaporthe conorum* (Desm.) Niessl in *Hedwigia* 15: 2. 1876.

≡ *Sphaeria conorum* Desmazières in *Annls Sci. nat. (Bot.)* III, 5: 76. 1846 [antedates *Diaporthe eres* Nitschke, see note].

= *Diaporthe occulta* (Fuck.) Nitschke, *Pyrenom. Germ. Lief.* 1: 266. 1867.

≡ *Valsa occulta* Fuckel in *Fungi rhen. (Fasc. 1)* No. 622. 1863 [antedates *Diaporthe eres* Nitschke, see note].

= *Diaporthe scobina* Nitschke, *Pyrenom. Germ. Lief.* 1: 293. 1867.

= *Diaporthe perniciosa* Marchal in *Bull. Soc. r. Bot. Belg.* 54: 117. 1921.

stat. con. *PHOMOPSIS* sp.

= *Phomopsis oblonga* (Desm.) von Höhnelt in *Sber. Akad. Wiss. Wien (Math.-naturw. Kl., Abt. I)* 115: 680. May 1906.

≡ *Phoma oblonga* Desmazières in *Annls Sci. nat. (Bot.)* III, 20: 218. 1853 (as '*P. oblongum*').

H ≡ *Phomopsis oblonga* (Desm.) Traverso in *Flora ital. cryptog.* 1 (2): 248. 1906.

= *Phomopsis conorum* (Sacc.) Diedicke in *Annls mycol.* 9: 22. 1911.

≡ *Phoma conorum* Saccardo in *Michelia* 2 (3): 615. 1882; in *Sylloge Fung.* 3: 150. 1884.

= *Phomopsis controversa* (Sacc.) Traverso in *Flora ital. cryptog.* 1 (2): 273. 1906.

≡ *Phoma controversa* Saccardo in *Michelia* 2 (3): 616. 1882; in *Sylloge Fung.* 3: 81. 1884 [with ref. to the *Diaporthe* state with the same epithet, ascribed to Nitschke, see above].

= *Phomopsis occulta* Traverso in *Flora ital. cryptog.* 1 (2): 221. 1906 [as new combination of *Phoma occulta* Sacc., but to be treated as new according to the 'Seattle Code' Art. 72].

H ≡ *Phoma occulta* Saccardo in *Sylloge Fung.* 3: 150. 1884 [not *P. occulta* Desmazières in *Annls Sci. nat. (Bot.)* III, 11: 283–284. 1849].

- = *Phomopsis scobina* (Cooke) von Höhnelt in Sber. Akad. Wiss. Wien (Math.-naturw. Kl., Abt. I) **115**: 681. 1906.
- ≡ *Phoma scobina* Cooke in Grevillea **13**: 92. 1885.
- = *Phomopsis mali* Roberts in Phytopathology **2**: 264. 1912.
- H = *Phomopsis mali* (Schulzer & Sacc.) Diedicke in Krypt.-Fl. Mark Brandenb., Pilze **7**: 261. 1915.
- ≡ *Phoma mali* Schulzer & Saccardo in Hedwigia **23**: 91. 1884; in Sylloge Fung. **3**: 75. 1884.
- = *Phomopsis perniciosus* Grove, Br. Coelomycetes **1**: 214. 1935.

Note: This species is listed here in accordance with the wide concept of Wehmeyer in Univ. Mich. Stud. scient. Ser. **9**: 63–100. 1933 [= Genus *Diaporthe* & segr.]. This species concept embraces many 'host forms' on all kinds of trees and shrubs which were earlier described as separate taxa (perfect as well as imperfect states). When this wide species concept is followed, the name *D. eres* for the perfect state is not based on the oldest epithet available. It is at present inopportune, however, to determine a correct combination since much more information is needed on the delimiting and differentiating criteria of the species. For the same reason no name for the conidial state is suggested here. For further descriptions of both states see also Müller & von Arx in Beitr. KryptogFlora Schweiz **11** (2): 761–762. 1962.

ELSINOE AMPELINA Shear

- Elsinoe ampelina* Shear in Phytopathology **19**: 677. 1929 [as comb. nov. of the conidial name *Sphaceloma ampelinum* de Bary].
- stat. con. *SPHACELOMA AMPELINUM* de Bary
- Spaceloma ampelinum* de Bary in Annln Oenolog. **4**: 165–167. 1874.
- = *Gloeosporium ampelophagum* (Pass.) Saccardo in Riv. Vitic. Enol. ital. **1877**: 494. 1877; in Michelia **1** (2): 217. 1878.
- ≡ *Ramularia ampelophaga* Passerini in Boll. Com. agr. Parmense **9** (8): 122–126. 1876.

Note: For descriptions and disease symptoms see Butler & Jones, Pl. Path. 842–845. 1949 and Anderson, Dis. Fruit Crops 377–382. 1956.

FISTULINA HEPATICA (Schaeff.) ex Fr.

- rn *Fistulina hepatica* (Schaeff.) ex Fries, Syst. mycol. **1**: 396. 1821 [with ref. to 'Huds.-Schaeff. t. 116–120'].

dn ≡ *Boletus hepaticus* Schaeffer, Fung. Bav. Icon. **2**: t. 116–120. 1763.

Note: For descriptions see Donk in Meded. bot. Mus. [Lab.] Herb. Rijks-Univ. Utrecht **9**: 260–261. 1933 [= Rev. niederl. Homob.-Aphyll. 2] and Zycha in Handb. PflKrankh. **3**, ed. 6, Lief. 4: 648–649. 1962. For cultural characters see Rothberg in Proc. R. Soc. Vict. II, **1**: 157–169. 1938 and Davidson & al. in Tech. Bull. U.S. Dep. Agric. **785**: 17. 1942.

FOMES FOMENTARIUS (L. ex Fr.) Fr.

- Fomes fomentarius* (L. ex Fr.) Fries, Summa veg. Scand. **2**: 319 [footnote in which Fries has validly published the generic name *Fomes*, see note], 321 ['*P. (seu) F. fomentarius* (L.)']. 1849.

rn ≡ *Polyporus fomentarius* (L.) ex Fries, Syst. mycol. **1**: 374. 1821.

dn ≡ *Boletus fomentarius* Linnaeus, Sp. Pl. 1176. 1753.

Note: The author citation of *Fomes fomentarius* varies in the literature [e.g. '(L. ex Fr.) Gillet', '(L. ex Fr.) Kickx']. Donk in *Persoonia* 1: 215–217. 1960 has shown that Fries in 1849 (l.c.), by accepting the genus *Fomes*, had already introduced valid combinations with *Fomes* for the Swedish species listed, including *Fomes fomentarius*. For description see Donk in *Meded. bot. Mus [Lab.] Herb. Rijks-Univ. Utrecht* 9: 206–207. 1933 [= *Rev. niederl. Homob.-Aphyll.* 2]. See also Jahn in *Westf. Pilzbriefe* 4: 50–54. 1963 and Bondartsev, *Polyp. europ. USSR Cauc.* 278. 1971 [= translation Bondartsev, Grib. S.S.S.R. 1953]. For distribution of the fungus in the Netherlands see v. d. Laan in *Coolia* 15: 156–158. 1972. For cultural characters see Nobles in *Can. J. Res.* C26: 322–323. 1948.

GANODERMA APPLANATUM (Pers. ex S. F. Gray) Pat.

Ganoderma applanatum (Pers. ex S. F. Gray) Patouillard in *Bull. Soc. mycol. Fr.* 5: 67. 1889.

≡ *Boletus applanatus* Pers. ex S. F. Gray, *Nat. Arr. Br. Pl.* 1: 642. 1821.

≡ *Boletus applanatus* Persoon, *Observationes mycol.* 2: 2. 1799; *Synop. method. Fung.* 536–537. 1801.

Note: For a discussion of the taxonomy of this species see Donk in *Proc. K. ned. Akad. Wet., Ser. C*, 72: 273–276. 1969. For description and other synonyms see Donk in *Meded. bot. Mus. [Lab.] Herb. Rijks-Univ. Utrecht* 9: 231–233. 1933 [= *Rev. niederl. Homob.-Aphyll.* 2]. See also Jahn in *Westf. Pilzbriefe* 4: 89–91. 1963 and Bondartsev, *Polyp. europ. USSR Cauc.* 416. 1971 [= translation Bondartsev, Grib. S.S.S.R. 1953].

For cultural characters see Nobles in *Can. J. Res.* C26: 335–336. 1948.

GIBBERELLA BACCATA (Wallr.) Sacc.

Gibberella baccata (Wallr.) Saccardo in *Sylloge Fung.* 2: 553. 1883.

≡ *Sphaeria baccata* Wallroth, *Fl. crypt. Germ.* 2: 838. 1833.

stat. con. *FUSARIUM LATERITIUM* Nees ex Link

rn *Fusarium lateritium* Nees ex Link in *C. Linn. Sp. Pl. [Ed. Willd.]*, ed. 4, 6 (2): 106. 1825.

: Fries, *Syst. mycol.* 3 [Sect. 2]: 470. 1832.

dn ≡ *Fusarium lateritium* Nees, *Syst. Pilze Schw.* 31. 1816 [the illustrated copies are dated 1817, but “nuperrime” published in April 1816, see Martius, *Fl. crypt. Erlang*, xxi, xxvii. 1817].

Note: For description of both states see Booth in *C.M.I. Descr. pathog. Fungi Bact.* 310. 1971 and Booth, *Fusarium* 108–110. 1971. Much variation exists in pathogenicity of strains from different hosts (*formae speciales*). The pathogenic form causing canker and die-back of mulberry can be designated as:

f. sp. *MORICOLA* [(Ces. & DNot.) comb. nov.]

≡ *Botryosphaeria moricola* Cesati & de Notaris in *Comment. Soc. crittogam. ital.* 1 (4): 212. 1863 [= Schema Sfer.].

≡ *Gibberella baccata* var. *moricola* (Ces. & DNot.) Wollenweber in *Z. ParasitKde* 3: 377. 1931 [as ‘*G. b. v. m.* (Not.) Wr.’ with reference to ‘*Sphaeria moricola* Cesati in herb. cf. De Notaris’ ≡ *Sphaeria moricola* Ces. ex Ces. & DNot. in *Comment. Soc. crittogam. ital.* 1 (4): 212. 1863, pro syn.].

Note: The conidial state of this pathogen of mulberry must be indicated as *Fusarium lateritium* f. sp. *mori* (Desm.) Matuo & Sato [*in* Trans. mycol. Soc. Japan 3: 120–126. 1962] ≡ *F. lateritium* var. *mori* Desm. [*in* Annls Sci. nat. (Bot.) II, 8: 10. 1837], see Booth, *Fusarium* 111. 1971.

GLOEODES POMIGENA (Schw.) Colby

Gloeodes pomigena (Schw.) Colby *in* Trans. Ill. St. Acad. Sci. 13: 158. 1920.

≡ *Dothidea pomigena* Schweinitz *in* Trans. Am. phil. Soc. II, 4: 232. 1832 [“1834”].

Note: Mature pycnidia have not yet been found in Europe (cf. Bondoux *in* Annls Phytopath. 1: 342. 1969). The fungus can spread by fragmentation of thick-walled hyphal fragments (chlamydospore-like cells). For hosts, pathogenicity and cultural characters see Baines & Gardner *in* Phytopathology 22: 937–952. 1932. See also Anderson, Dis. Fruit Crops 144–148. 1956.

INONOTUS HISPIDUS (Bull. ex Fr.) P. Karst.

Inonotus hispidus (Bull. ex Fr.) P. Karsten *in* Meddn Soc. Fauna Flora fenn. 5: 39. 1879.

rn ≡ *Polyporus hispidus* (Bull.) ex Fries, Syst. mycol. 1: 362. 1821.

dn ≡ *Boletus hispidus* Bulliard, Herb. France t. 210. 1784, t. 493. 1790.

Note: For description and data on disease symptoms, distribution and transmission see Pegler & Waterston *in* C. M. I. Descr. pathog. Fungi Bact. 193. 1968. See also Jahn *in* Westf. Pilzbriefe 4: 109. 1963 and Bondartsev, Polyp. europ. USSR Cauc. 331. 1971 [= translation Bondartsev, Grib. S.S.S.R. 1953]. For cultural characters see Davidson & al. *in* Tech. Bull. U.S. Dep. Agric. 785: 34. 1942.

KUEHNEOLA UREDINIS (Link) Arth.

Kuehneola uredinis (Link) Arthur *in* Int. bot. Congr. 2 [Vienna, 1905]: 342. 1906.

≡ *Oidium uredinis* Link *in* C. Linn. Sp. Pl. [Ed. Willd.], ed. 4, 6 (1): 123. 1824.

= *Kuehneola albida* (Kühn) Magnus *in* Bot. Cbl. [Zbl.] 74: 169. 1898.

≡ *Chrysomyxa albida* Kühn *in* Bot. Cbl. [Zbl.] 16: 154. 1883.

Note: For descriptions and hosts see Gäumann *in* Beitr. KryptogFlora Schweiz 12: 197–199. 1959 and Laundon & Rainbow *in* C.M.I. Descr. pathog. Fungi Bact. 202. 1969. See also Wilson & Henderson, Br. Rust Fungi 108–109. 1966.

LAETIPORUS SULPHUREUS (Bull. ex Fr.) Murrill

Laetiporus sulphureus (Bull. ex Fr.) Murrill *in* Mycologia 12: 11. 1920.

rn ≡ *Polyporus sulphureus* (Bull.) ex Fries, Syst. mycol. 1: 357. 1821.

dn ≡ *Boletus sulphureus* Bulliard, Herb. France t. 429. 1788.

≡ *Tyromyces sulphureus* (Bull. ex Fr.) Donk *in* Meded. bot. Mus. [Lab.] Herb. Rijks-Univ. Utrecht 9: 145. 1933 [= Rev. niederl. Homob.-Aphyll. 2].

≡ *Grifola sulphurea* (Bull. ex Fr.) Cunningham *in* Bull. N. Z. Dep. scient. ind. Res. 164: 91. 1965.

Note: For descriptions see Donk (l.c.) and Cunningham (l.c.). See also Jahn *in* Westf. Pilzbriefe 4: 39–40. 1963 and Bondartsev. Polyp. europ. USSR Cauc. 182. 1971 [=

translation Bondartsev, Grib. S.S.S.R. 1953]. For cultural characters see Nobles in Can. J. Res. **C26**: 380. 1948.

MELAMPSORA RIBESII-VIMINALIS Kleb.

Melampsora ribesii-viminalis Klebahn in Jb. wiss. Bot. **34** (3): 363. 1900.

Note: For description and hosts see Gäumann in Beitr. KryptogFlora Schweiz **12**: 166–167. 1959. See also Wilson & Henderson, Br. Rust Fungi **80**. 1966.

MYCOSPHAERELLA MORI (Fuck.) ex Wolf

Δ *Mycosphaerella mori* (Fuck.) ex Wolf in J. Elisha Mitchell scient. Soc. **51**: 165. 1935.

O ≡ *Sphaerella mori* Fuckel in Jb. nassau. Ver. Naturk. **23–24**: 106. 1870 [“1869”; = Symb. mycol.].

O ≡ *Mycosphaerella mori* (Fuck.) Lindau in [Sorauer] Handb. PflKrankh. **2**, ed. 3: 239. 1908 [sometimes erroneously cited as ‘*M. morifolia* (Fuck.) Lindau’; not to be confused with *M. morifolia* (Pass.) Auct. ≡ *Sphaerella morifolia* Pass., see Seymour, Host Index Fungi N. Am. **281**. 1929].

stat. con. *PHLOEOSPORELLA MACULANS* (Béreng.) Höhn.

Phloeosporella maculans (Béreng.) von Höhnelt in Mitt. bot. Inst. tech. Hochsch. Wien **4**: 77. 1927 [basonym erroneously attributed to Sandri in Memorie Accad. Agric. (Sci.) Commenc. Art. Verona **20**: 271–285. 1842, who gives the first record of the fungus, however, without providing a name; see note].

≡ *Fusarium maculans* de Béranger in Atti Congr. Milano **1844**: 474. 1844; de Béranger, Secc. Gelso 1–10. 1847 [additional description].

≡ *Phleospora maculans* (Béreng.) Allescher in Rabenh. Krypt. Fl. [ed. 2], Pilze **6** [Lief. 73]: 935. 1900 [vol. dated “1901”].

≡ *Cercosporella maculans* (Béreng.) Wolf in J. Elisha Mitchell scient. Soc. **51**: 165. 1935.

= *Septogloeum mori* (Lév.) Briosi & Cavara in Funghi parass. (Fasc. 1) No. 21. 1888.

≡ *Septoria mori* Léveillé in Annls Sci. nat. (Bot.) III, **5**: 279. 1846.

≡ *Phleospora mori* (Lév.) Saccardo in Michelia **1** (2): 175. 1878; in Sylloge Fung. **3**: 577. 1884.

≡ *Cylindrosporium mori* (Lév.) Berlese in Riv. Patol. veg., Padova **5**: 205. 1896.

Note: A historical polemic between the Italians Sandri and de Béranger on the priority of the discovery of the fungal agent of the mulberry disease concerned [see e.g. Berlese in Riv. Patol. veg., Padova **5**: 100–101. 1896] explains why in the past the binomial *Fusarium maculans* introduced by de Béranger is often ascribed erroneously to Sandri. Contrary to Berlese’s opinion, de Béranger’s concise diagnosis of *F. maculans* in 1844 can be accepted as a valid publication and therefore antedates *Septoria mori*. The perfect state apparently does not play an important role in the life cycle of the fungus: hibernation is by thick-walled ‘autumn conidia’ see Stewart in J. R. Soc. West. Aust. **34** (“1947–1948”): 87–104. 1950. For description of the conidial state, cultural

characters, pathogenicity and disease symptoms see Stewart (l.c.) and Smith & Stewart in J. Dep. Agric. West. Aust. II, **24**: 69–74. 1947. For other synonyms of the conidial state see Stewart (l.c.) and von Höhnelt (l.c.).

NECTRIA FUEKELIANA Booth

Nectria fuckeliana Booth in Mycol. Pap. **73**: 56. 1959.

H ≡ *Nectria cucurbitula* Fuckel in Jb. nassau. Ver. Naturk. **23–24**: 180. 1870 [“1869”; = Symb. mycol.] [not *N. cucurbitula* (Tode ex Fr.) Fries, Summa veg. Scand. **2**: 388. 1849].

stat. con. **CYLINDROCARPON CYLINDROIDES** var. **TENUE** Wollenw.

Cylindrocarpon cylindroides var. *tenue* Wollenweber in Z. ParasitKde **1**: 153. 1928.

Note: For description of both states see Booth (l.c.) and Booth in Mycol. Pap. **104**: 5–6. 1966. This species produces abundant microconidia (in fact a distinct second conidial state: *Acremonium* sp.) see Roll-Hansen in Meddr norske SkogsforsVes. **17**: 293–312. 1962 and Gams, Cephalops. Schimmelpilze 114–117. 1971.

PESTALOTIA GUEPINII Desm.

V *Pestalotia guepinii* Desmazières in Annls Sci. nat. (Bot.) II, **13**: 182–184. 1840; in Mém. Soc. Sci. Agric. Lille **1840**: 35–37. 1841 [“guepini”].

V ≡ *Pestalotiopsis guepinii* (Desm.) Steyaert in Bull. Jard. bot. État Brux. **19**: 312. 1949 [“guepini”].

Note: There exists some confusion about the species concept and synonymy of this fungus, compare Guba, Monochaetia & Pestalotia 108–113. 1961 and Sutton in Mycol. Pap. **80**: 8–14. 1961. For description, cultural characters, hosts and notes on pathogenicity see Mordue in C.M.I. Descr. pathog. Fungi Bact. **320**. 1971 (under *Pestalotiopsis*).

PEZICULA ALBA Guthrie

Pezicula alba Guthrie in Trans. Br. mycol. Soc. **42**: 504. 1959.

stat. con. **PHLYCTAENA VAGABUNDA** Desm.

Phlyctaena vagabunda Desmazières in Annls Sci. nat. (Bot.) III, **8**: 16, 17. 1847; in Pl. cryptog. N. France [ed. 1] Fasc. 33, No. 1624. 1847.

= *Gloeosporium album* Osterwalder in Centbl. Bakt. ParasitKde Abt. II, **18**: 826. 1907.

= *Trichoseptoria fructigena* Maublanc in Bull. Soc. mycol. Fr. **21**: 97. 1905.

Note: For description, hosts and distribution see von Arx in Phytopath. Z. **33**: 110–113. 1958. For other synonyms described as *Gloeosporium* see von Arx in Bibliotheca mycol. **24**: 35–37. 1970 [= Revis. Gloeosporium, ed. 2]. For the occurrence of the fungus on apple leaves see Tan & Burchill in Ann. appl. Biol. **70**: 199–206. 1972.

PHAEOLUS SCHWEINITZII (Fr.) Pat.

Phaeolus schweinitzii (Fr.) Patouillard, Essai taxon. 86. 1900.

≡ *Polyporus schweinitzii* Fries, Syst. mycol. **1**: 351. 1821.

≡ *Hapalopilus schweinitzii* (Fr.) Donk in Meded. bot. Mus. [Lab.] Herb. Rijks-Univ. Utrecht **9**: 173. 1933 [= Rev. niederl. Homob.-Aphyll. 2].

Note: For description see Donk (l.c.), Jahn *in* Westf. Pilzbriefe **4**: 92–93. 1963 and Bondartsev, Polyp. europ. USSR Cauc. 308. 1971 [= translation Bondartsev, Grib. S.S.S.R. 1953]. For cultural characters see Nobles *in* Can. J. Res. **C26**: 377–378. 1948.

Phellinus igniarius (L. ex Fr.) Quél.

Phellinus igniarius (L. ex Fr.) Quélet, Enchiridion 172. 1886.

rn ≡ *Polyporus igniarius* (L.) ex Fries, Syst. mycol. **1**: 375. 1821.

dn ≡ *Boletus igniarius* Linnaeus, Fl. suec. 1256. 1745.

≡ *Fomes igniarius* (L. ex Fr.) Kickx, Fl. crypt. Flandres **2**: 237. 1867.

≡ *Ochroporus igniarius* (L. ex Fr.) Schroeter *in* Cohn, Krypt.-Fl. Schles. **3** (1): 487. 1888.

Note: For description and data on disease symptoms, distribution and transmission see Pegler & Waterston *in* C.M.I. Descr. pathog. Fungi Bact. 194. 1968. For description see also Donk *in* Meded. bot. Mus. [Lab.] Herb. Rijks-Univ. Utrecht **9**: 249–250. 1933 [= Rev. niederl. Homob.-Aphyll. 2], Jahn *in* Westf. Pilzbriefe **4**: 96–98. 1963 and Bondartsev, Polyp. europ. USSR Cauc. 341. 1971 [= translation Bondartsev, Grib. S.S.S.R. 1953]. For cultural characters see Nobles *in* Can. J. Res. **C26**: 325–326. 1948.

Phellinus ribis (Schum. ex Fr.) P. Karst.

Phellinus ribis (Schum. ex Fr.) P. Karsten *in* Bidr. Känn. Finl. Nat. Folk **48**: 335. 1889 [= Krit. Öfers. Finl. Basidsv.] [with ref. to 'Quél. Ench. p. 173' = *P. pectinatus* var. *ribis*, see below].

rn ≡ *Polyporus ribis* Schum. ex Fries, Syst. mycol. **1**: 375. 1821.

dn ≡ *Boletus ribis* Schumacher, Enum. Pl. Saell. **2**: 386. 1803.

≡ *Fomes ribis* (Schum. ex Fr.) Gillet, Champ. France, Hym. 685. 1878.

≡ *Ochroporus ribis* (Schum. ex Fr.) Schroeter *in* Cohn, Krypt.-Fl. Schles. **3** (1): 486. 1888.

≡ *Phellinus pectinatus* var. *ribis* (Schum. ex Fr.) Quélet, Enchiridion 173. 1886.

Note: The correct author citation of this species has been pointed out by Donk in his 'Checklist of European polypores' [*in* Verh. K. ned. Akad. Wet. (Afd. Natuurk.) 1973 – in press]. For description see Donk *in* Meded. bot. Mus. [Lab.] Herb. Rijks-Univ. Utrecht **9**: 253. 1933 [= Rev. niederl. Homob.-Aphyll. 2] (under *Ochroporus ribis*). See also Jahn *in* Westf. Pilzbriefe **4**: 95. 1963 and Bondartsev, Polyp. europ. USSR Cauc. 382. 1971 [= translation Bondartsev, Grib. S.S.S.R. 1953]. Within the species various host forms with slight morphological differences are distinguished, see Pilát, Atlas Champign. Europ. III, Polyporaceae **1**: 529–530. 1942. For cultural characters see Bakshi, Sen & Singh *in* Indian Forest Rec. II, **2** (10): 262. 1971.

Phellinus robustus (P. Karst.) Bourd. & Galz.

Phellinus robustus (P. Karst.) Bourdot & Galzin *in* Bull. Soc. mycol. Fr. **41**: 188. 1925.

≡ *Fomes robustus* P. Karsten *in* Bidr. Känn. Finl. Nat. Folk **48**: 467. 1889 [= Krit. Öfers. Finl. Basidsv.].

Note: For description and data on disease symptoms, distribution and transmission see Pegler & Waterston *in* C.M.I. Descr. pathog. Fungi Bact. 197. 1968. See for description also Donk *in* Meded. bot. Mus. [Lab.] Herb. Rijks-Univ. Utrecht **9**: 248–249.

1933 [= Rev. niederl. Homob.-Aphyll. 2], Jahn in Westf. Pilzbriefe 4: 102–103. 1963 and Bondartsev, Polyp. europ. USSR Cauc. 352. 1971 [= translation Bondartsev, Grib. S.S.S.R. 1953]. For cultural characters see Bakshi, Sen & Singh in Indian Forest Rec. II, 2 (10): 263. 1971.

PHOLIOTA SQUARROSA (Pers. ex Fr.) Kumm.

Pholiota squarrosa (Pers. ex Fr.) Kummer, Führ. Pilzk. 84. 1871.

rn ≡ *Agaricus squarrosus* Pers. ex Fries, Syst. mycol. 1: 243. 1821 [with ref. to Fries, Observationes mycol. 2: 19. 1818 where the species is cited as '*Agar. squarrosus*. Pers. Syn. p. 268 (ut suspicor, exclus. var. syn.)'].

dn ≡ *Agaricus squarrosus* Persoon, Synop. method. Fung. 268. 1801.

Note: For descriptions see Lange, Fl. ag. dan. 3: 56 (pl. 110). 1936, Wakefield & Dennis, Common Br. Fungi 144. 1950 and Smith & Hesler, N. Amer. spec. *Pholiota* 189. 1968. See also Zycha in Handb. PflKrankh. 3, ed. 6, Lief. 4: 672. 1962.

PHOMA MACROSTOMA Mont. [var. *MACROSTOMA*]

V *Phoma macrostoma* Montagne in Annls Sci. nat. (Bot.) III, 11: 52. 1849 [as '*P. macrostomum*'].

= *Phoma pomi* Schulzer & Saccardo in Hedwigia 23: 109. 1884.

H = *Phyllosticta mali* Prillieux & Delacroix in Bull. Soc. mycol. Fr. 6: 181. 1890 [not *Phyllosticta mali* Briard, Fl. cryptog. Aube & Suppl. Cat. Troyes 79. 1888].

= *Phoma limitata* (Peck) Boerema apud Boerema & Dorenbosch in Versl. Meded. plziektenk. Dienst 142 (Jaarb. 1964): 138. 1965.

≡ *Phyllosticta limitata* Peck in Rep. N. Y. St. Mus. nat. Hist. 50: 115. 1897.

= *Polyopeus purpureus* var. *verus* Horne in J. Bot., Lond. 58: 240. 1920.

Note: For description and other synonyms of this ubiquitous wound- or weak-parasitic fungus on woody plants see Boerema & Dorenbosch in Persoonia 6: 49–55. 1970.

PHOMA MACROSTOMA var. *INCOLORATA* (Horne) Boerema & Dorenb.

V *Phoma macrostoma* var. *incolorata* (Horne) Boerema & Dorenbosch in Persoonia 6: 55. 1970 [as '*P. macrostomum* var. *incolorata*'].

≡ *Polyopeus purpureus* var. *incoloratus* Horne in J. Bot., Lond. 58: 240. 1920.

Note: For description and other synonyms see Boerema & Dorenbosch (l.c.).

PHOMA POMORUM Thüm.

Phoma pomorum von Thümen, Fungi pomicoli 105. 1879.

H = *Phoma prunicola* (Opiz) Wollenweber & Hochapfel in Z. ParasitKde 8: 595. 1936 [not *Phoma prunicola* Schweinitz in Trans. Am. phil. Soc. II, 4: 249. 1832 ("1834") = Synopsis Fung. Am. bor.].

≡ *Depazea prunicola* Opiz in Malá Encyclop. Nauk. Náklad. česk. Mus. 10: 120. 1852.

≡ *Peyronellaea prunicola* (Opiz) Goidànich in Atti Accad. naz.

Lincei Rc. VIII, 1: 455. 1946 [not validly published according Arts 32 and 43 of the 'Seattle Code'].

≡ *Phyllosticta prunicola* (Opiz) Saccardo in *Michelia* 1 (2): 157. 1878.

= *Phyllosticta pruni-avium* Allescher in *Ber. bot. Ver. Landshut* 12: 15. 1892.

= *Phyllosticta pyrina* Saccardo in *Michelia* 1 (2): 134. 1878 [*in Sylloge Fung.* 3: 7. 1884 listed as '*P. pirina*'].

= *Phyllosticta cydoniicola* Allescher in *Hedwigia* 36: 158. 1897.

= *Phoma pruni-japonicae* P. Sydow in *Beibl. Hedwigia* 38: 136. 1899.

= *Phyllosticta tirolensis* Bubák apud Bubák & Kabát in *Öst. bot. Z.* 54: 181. 1904.

= *Phoma bismarckii* Kidd & Beaumont in *Trans. Br. mycol. Soc.* 10: 104–105. 1924.

Note: For description and other synonyms of this plurivorous wound- or weak-parasitic fungus see Boerema, Dorenbosch & van Kesteren in *Persoonia* 4: 59–63. 1965, *Persoonia* 5: 202–203. 1968 and *Persoonia* 6: 172–174. 1971. See also Morgan-Jones in *C.M.I. Descr. pathog. Fungi Bact.* 135. 1967 (*Phoma prunicola*).

PLASMOPARA VITICOLA (Berk. & Curt. ex de Bary) Berl. & de Toni

Plasmopara viticola (Berk. & Curt. ex de Bary) Berlese & de Toni apud Saccardo in *Sylloge Fung.* 7: 239. 1888.

≡ *Peronospora viticola* (Berk. & Curt.) ex de Bary in *Annls Sci. nat. (Bot.)* IV, 20: 125. 1863.

⊕ ≡ *Botrytis viticola* Berkeley & Curtis apud Berkeley in *Jl [R.] hort. Soc.* 6: 289. 1851; in *Fungi carol. exs.* [Ed. Ravenel] Fasc. 5, No. 90 [i.e. No. 490 of the whole series]. 1860 [erroneously in literature on this fungus mostly dated "1848"].

⊕ ≡ *Peronospora viticola* (Berk. & Curt.) Caspary in *Ber. Verh. K. preuss. Akad. Wiss. Berl.* 1855: 331. 1855.

Note: For description, disease symptoms and infection biology see Butler & Jones, *Pl. Path.* 833–839. 1949.

PLEUROTUS OSTREATUS (Jacq. ex Fr.) Kumm.

Pleurotus ostreatus (Jacq. ex Fr.) Kummer, *Führ. Pilzk.* 105. 1871.

rn ≡ *Agaricus ostreatus* Jacquin ex Fries, *Syst. mycol.* 1: 182. 1821.

dn ≡ *Agaricus ostreatus* Jacquin, *Fl. Austriac.* 3: t. 288. 1775.

Note: For descriptions see Lange, *Fl. ag. dan.* 2: 68 (pl. 63). 1936. Wakefield & Dennis, *Common Br. Fungi* 100–101. 1950 and Romagnesi, *Nouv. Atlas Champ.* 2: pl. 108. 1958. See also Zycha in *Handb. PflKrankh.* 3, ed. 6, Lief. 4: 673–674. 1962. For cultural characters see Nobles in *Can. J. Res.* C26: 347–348. 1948.

POLYPORUS SQUAMOSUS (Huds.) ex Fr.

Polyporus squamosus (Huds.) ex Fries, *Syst. mycol.* 1: 343. 1821.

≡ *Boletus squamosus* Hudson, *Fl. Angl. ed.* 2, 626. 1778.

Note: For description see Donk in *Meded. bot. Mus. [Lab.] Herb. Rijks-Univ. Utrecht* 9: 130–131. 1933 [= *Rev. niederl. Homob.-Aphyll.* 2]. See also Jahn in

Schweiz. Z. Pilzk. **47**: 218–227. 1969 and Bondartsev, Polyp. europ. USSR Cauc. 427. 1971 [= translation Bondartsev, Grib. S.S.S.R. 1953]. For cultural characters see Nobles in Can. J. Res. **C26**: 378–379. 1948.

SCHIZOTHYRIUM POMI (Mont.) v. Arx

Schizothyrium pomi (Mont.) von Arx in Proc. K. ned. Akad. Wet., Ser. C, **62**: 336. 1959 [as '*S. p.* (Mont. ex Fr.) v. Arx']

≡ *Labrella pomi* Montagne in Annls Sci. nat. (Bot.) **II**, **1**: 347. 1834 [as '*L. p.* Montag. mss (Fr. in litt.)']

≡ *Leptothyrium pomi* (Mont.) Saccardo in Michelia **2** (1): 113. 1880.

Note: For description, synonyms and hosts see von Arx (l.c.).

STIGMINA HARTIGIANA (Sacc.) M. B. Ellis

Stigmina hartigiana (Sacc.) M. B. Ellis in Mycol. Pap. **72**: 45. 1959.

≡ *Septogloeum hartigianum* Saccardo apud Hartig in Forstl.-naturw. Z. **1**: 290. 1892.

≡ *Sciniatosporium hartigianum* (Sacc.) Morgan-Jones in Can. J. Bot. **49**: 997. 1971.

= *Coryneum vogelium* Saccardo in Annls mycol. **32**: 430. 1934.

Note: For description and other synonyms of this pathogen of *Acer campestre* L. see Ellis (l.c.). For discussion of the generic name *Sciniatosporium* see Sutton in Trans. Br. mycol. Soc. **58**: 164–167. 1972.

SYDOWIA POLYSPORA (Bref. & v. Tav.) E. Müll.

Sydowia polyspora (Bref. & v. Tav.) E. Müller in Sydowia **7**: 342. 1953.

≡ *Dothidea polyspora* Brefeld & von Tavel in Brefeld, Untersuch. Gesamtgeb. Mykol. **10**: 296. 1891.

stat. con. *DOTHICHIZA PYTHIOPHILA* (Corda) Petr.

V *Dothichiza pythiophila* (Corda) Petrak in Annls mycol. **21**: 267. 1923 [as '*D. pityophila*'].

V ≡ *Sphaeronaema pythiophilum* Corda, Icon. Fung. **4**: 40. 1840 [as '*Sphaeronema p.*'].

V ≡ *Sclerophoma pythiophila* (Corda) von Höhnelt in Sber. Akad. Wiss. Wien (Math.-naturw. Kl., Abt. I) **118**: 1234. 1909 [as '*S. pithyophila*'].

= *Hormonema dematioides* Lagerberg & Melin apud Lagerberg, Lundberg & Melin in Svenska SkogsvFör. Tidskr. **25**: 219. 1927.

Note: For descriptions and synonyms of the perfect state see Müller (l.c.) and Butin in Sydowia **17**: 114–118. 1964. For descriptions and synonyms of the conidial state see Sutton & Waterston in C.M.I. Descr. pathog. Fungi Bact. 228. 1970 (*Sclerophoma pythiophila*). Good figures of the pycnidia are given by Müller (l.c.) and von Arx, Genera Fungi 137. 1970. In culture the fungus produces a dark mycelium with blastospores, hardly distinguishable from *Aureobasidium pullulans* (de Bary) G. Arn., see Butin in Phytopath. Z. **48**: 298–305. 1963, Sutton & Waterston (l.c.) and von Arx (l.c.). For hosts and data on pathogenicity and disease symptoms see Sutton & Waterston (l.c.).

THIELAVIOPSIS BASICOLA (Berk. & Br.) Ferraris

Thielaviopsis basicola (Berk. & Br.) Ferraris in *Flora ital. cryptog.* **1** (6): 233–234. 1912.

≡ *Torula basicola* Berkeley & Broome in *Ann. Mag. nat. Hist.* **II**, **5**: 461. 1850 [= *Not. Br. Fungi*].

Note: The ascomycete *Thielavia basicola* Zopf in *Verh. bot. Ver. Prov. Brandenb.* **18**: 101. 1876 was formerly regarded as the perfect state of *Thielaviopsis basicola*. By cultural experiments, however, it has been established that there exists no genetical connection between *Thielavia* and *Thielaviopsis*, see Lucas in *Phytopathology* **38**: 16. 1948 and Härri in *Phytopath. Z.* **36**: 27–66. 1959. For description of *Thielaviopsis basicola* see Ellis, Dematiac. Hyphom. 31–32. 1971. For hosts see Johnson in *J. agric. Res.* **7**: 289–300. 1916 (under '*Thielavia basicola*') and in *J. agric. Res.* **58**: 856–858. 1939. The cultural characters are described by Rawlings in *Ann. Mo. bot. Gdn* **27**: 561–598. 1940. Also see Subramanian in *C.M.I. Descr. pathog. Fungi Bact.* 170. 1968.

UNCINULA NECATOR (Schw.) Burr.

Uncinula necator (Schw.) Burrill in Ellis & Everhart, *N. Am. Pyrenomyc.* **15**. 1892.

≡ *Erysiphe necator* Schweinitz in *Trans. Am. phil. Soc.* **II**, **4**: 270. 1832 ["1834"].

Note: For synonyms, descriptions and hosts see Blumer, *Echte Mehltaupilze* 276–282. 1967 and Kapoor in *C.M.I. Descr. pathog. Fungi Bact.* 160. 1967.

VALSA SORDIDA Nitschke

Valsa sordida Nitschke, *Pyrenom. Germ. Lief.* **1**: 203. 1867

stat. con. *CYTOSPORA CHRYSOSPERMA* (Pers.) ex Fr.

rn *Cytospora chrysosperma* (Pers.) ex Fries, *Syst. mycol.* **2** [Sect. 2]: 542. 1823.

dn ≡ *Naemaspora chrysosperma* Persoon, *Observationes mycol.* **1**: 80. 1796; *Synop. method. Fung.* 108. 1801.

Note: For description and synonyms of the perfect state see Urban in *Rozpr. čsl. Akad. Věd, Řada MPV* **68** (12): 39–40. 1958. For description of the conidial state see Urban (l.c.) and Butin in *Mitt. biol. BundAnst. Ld- u. Forstw.* **91**: 48. 1957. For a discussion of pathogenicity and disease symptoms see Peace, *Path. Trees Shrubs* 439–441. 1962.

Index of fungus names

The selected names are in boldface type

- Acremonium* sp. 172
Agaricus ostreatus Jacq. ex Fr. 175
Agaricus squarrosus Pers. ex Fr. 174
Aureobasidium pullulans (de Bary) G. Arn. 176

Boletus applanatus Pers. ex S. F. Gray 169
Boletus fomentarius L. [*dn*] 168
Boletus hepaticus Schaeff. [*dn*] 168
Boletus hispidus Bull. [*dn*] 170
Boletus igniarius L. [*dn*] 173
Boletus ribis Schum. [*dn*] 173
Boletus squamosus Huds. 175
Boletus sulphureus Bull. [*dn*] 170
Botryodiplodia juglandicola (Schw.) Sacc. 166
Botryodiplodia malorum (Berk.) Petr. & H. Syd. 166
Botryosphaeria moricola Ces. & DNot. 169
Botryosphaeria quercuum (Schw.) Sacc. 166
Botrytis viticola Berk. & Curt. [Θ] 175

Cercospora maculans (Bérang.) Wolf 171
Chalaropsis thielavioides Peyron. 166
Chrysomyxa albida Kühn 170
Coryneum vogelianum Sacc. 176
Cryptospora viticola Shear 166
Cylindrocarpon cylindroides var. *tenue* Wollenw. 172
Cylindrosporium mori (Lév.) Berl. 171
Cytospora chrysosperma (Pers.) ex Fr. 177

Depazea prunicola Opiz 174
Diaporthe conorum (Desm.) Niessl 167
Diaporthe controversa (Desm.) Nitschke ex Fuck. 167
Diaporthe eres Nitschke 167, 168
Diaporthe occulta (Fuck.) Nitschke 167
Diaporthe perniciosa Marchal 167
Diaporthe scobina Nitschke 167
Dothichiza pythiophila (Corda) Petr. ['pityophila'] 176
Dothidea polyspora Bref. & Tav. 176
Dothidea pomigena Schw. 170

Elsinoe ampelina Shear 168
Erysiphe necator Schw. 177

Fistulina hepatica (Schaeff.) ex Fr. 168
Fomes fomentarius (L. ex Fr.) Fr. 168, 169
Fomes igniarius (L. ex Fr.) Kickx 173
Fomes ribis (Schum. ex Fr.) Gillet 173
Fomes robustus P. Karst. 173

Fusarium lateritium Nees ex Link [*rn*] 169
Fusarium lateritium f. sp. *mori* (Desm.) Matuo & Sato 170
Fusarium lateritium var. *mori* Desm. 170
Fusarium maculans Bérang. 171
Fusicoccum viticolum Reddick 166, 167

Ganoderma applanatum (Pers. ex S. F. Gray) Pat. 169
Gibberella baccata (Wallr.) Sacc. 169
– f. sp. *moricola* [(Ces. & DNot.) Boerema & Verhoeven] 169
– var. *moricola* (Ces. & DNot.) Wollenw. 169
Gloeodes pomigena (Schw.) Colby 170
Gloeosporium album Osterw. 172
Gloeosporium ampelophagum (Pass.) Sacc. 168
Grifola sulphurea (Bull. ex Fr.) Cunn. 170

Hapalopilus schweinitzii (Fr.) Donk 172
Hormonema dematioides Lagerb. & Melin 176

Inonotus hispidus (Bull. ex Fr.) P. Karst. 170

Kuehneola albida (Kühn) Magn. 170
Kuehneola uredinis (Link) Arth. 170

Labrella pomi Mont. 176
Laetiporus sulphureus (Bull. ex Fr.) Murrill 170
Leptothyrium pomi (Mont.) Sacc. 176

Melampsora ribesii-viminalis Kleb. 171
Mycosphaerella mori (Fuck.) Lindau [*O*] 171
Mycosphaerella mori (Fuck.) ex Wolf 171
Mycosphaerella morifolia (Pass.) Auct. 171

Naemaspora chrysosperma Pers. [*dn*] 177
Nectria cucurbitula Fuck. [*H*] 172
Nectria cucurbitula (Tode ex Fr.) Fr. 172
Nectria fuckeliana Booth 172

Ochroporus igniarius (L. ex Fr.) Schroet. 173
Ochroporus ribis (Schum. ex Fr.) Schroet. 173
Oidium uredinis Link 170

Peronospora viticola (Berk. & Curt.) ex de Bary 175
Peronospora viticola (Berk. & Curt.) Casp. [Θ] 175
Pestalotia guepinii Desm. ['guepini'] 172

- Pestalotiopsis guepinii* (Desm.) Stey. ['guepi-ni'] 172
Peyronellaea prunicola (Opiz) Goid. 174
Pezicula alba Guthrie 172
Phaeolus schweinitzii (Fr.) Pat. 172
Phellinus igniarius (L. ex Fr.) Quél. 173
Phellinus pectinatus var. *ribis* (Schum. ex Fr.) Quél. 173
Phellinus ribis (Schum. ex Fr.) P. Karst. 173
Phellinus robustus (P. Karst.) Bourd. & Galz. 173
Phleospora maculans (Bérang.) Allesch. 171
Phleospora mori (Lév.) Sacc. 171
Phloeosporella maculans (Bereng.) Höhn. ['(Sandri) Höhn.'] 171
Phlyctaena vagabunda Desm. 172
Pholiota squarrosa (Pers. ex Fr.) Kumm. 174
Phoma bismarckii Kidd & Beaum. 175
Phoma conorum Sacc. 167
Phoma controversa Sacc. 167
Phoma limitata (Peck) Boerema 174
Phoma macrostoma Mont. [var. *macrostoma*] ['macrostomum'] 174
Phoma macrostoma var. *incolorata* (Horne) Boerema & Dorenb. ['macrostomum'] 174
Phoma mali Schulzer & Sacc. 168
Phoma oblonga Desm. ['oblongum'] 167
Phoma occulta Desm. 167
Phoma occulta Sacc. [H] 167
Phoma pomi Schulzer & Sacc. 174
Phoma pomorum Thüm. 174
Phoma pruni-japonicae P. Syd. 175
Phoma prunicola (Opiz) Wollenw. & Hochapf. [H] 174, 175
Phoma prunicola Schw. 174
Phoma scobina Cooke 168
Phoma viticola Sacc. 167
Phomopsis sp. 167
Phomopsis conorum (Sacc.) Died. 167
Phomopsis controversa (Sacc.) Trav. 167
Phomopsis mali Roberts 168
Phomopsis mali (Schulzer & Sacc.) Died. [H] 168
Phomopsis oblonga (Desm.) Höhn. 167
Phomopsis oblonga (Desm.) Trav. [H] 167
Phomopsis occulta Trav. 167
Phomopsis perniciosa Grove 168
Phomopsis scobina (Cooke) Höhn. 168
Phomopsis viticola (Reddick) Goid [H] 167
Phomopsis viticola (Sacc.) Sacc. 166
Phyllosticta cydoniicola Allesch. 175
Phyllosticta limitata Peck 174
Phyllosticta mali Briard 174
Phyllosticta mali Prill. & Delacr. [H] 174
Phyllosticta pruni-avium Allesch. 175
Phyllosticta prunicola (Opiz) Sacc. 175
Phyllosticta pyrina Sacc. ['pirina'] 175
Phyllosticta tirolensis Bubák 175
Physalospora cydoniae G. Arn. 166
Physalospora malorum Shear & al. 166
Physalospora obtusa (Schw.) Cooke 166
Plasmopara viticola (Berk. & Curt. ex de Bary) Berl. & de Toni 175
Pleurotus ostreatus (Jacq. ex Fr.) Kumm. 175
Polyopeus purpureus var. *incoloratus* Horne 174
Polyopeus purpureus var. *verus* Horne 174
Polyporus fomentarius (L.) ex Fr. 168
Polyporus hispidus (Bull.) ex Fr. 170
Polyporus igniarius (L.) ex Fr. 173
Polyporus ribis Schum. ex Fr. 173
Polyporus schweinitzii Fr. 172
Polyporus squamosus (Huds.) ex Fr. 175
Polyporus sulphureus (Bull.) ex Fr. 170
Ramularia ampelophaga Pass. 168
Schizothyrium pomi (Mont.) v. Arx 176
Sciniatosporium hartigianum (Sacc.) Morg.-Jones 176
Sclerophoma pythiophila (Corda) Höhn. ['pythiophila'] 176
Septogloeum hartigianum Sacc. 176
Septogloeum mori (Lév.) Briosi & Cav. 171
Septoria mori Lév. 171
Sphaeloma ampelinum de Bary 168
Sphaerella mori Fuck. [O] 171
Sphaerella morifolia Pass. 171
Sphaeria baccata Wallr. 169
Sphaeria conorum Desm. 167
Sphaeria controversa Desm. 167
Sphaeria juglandicola Schw. 166
Sphaeria malorum Berk. 166
Sphaeria moricola Ces. ex Ces. & DNot. 169
Sphaeria obtusa Schw. 166
Sphaeria quercuum Schw. 166
Sphaeronaema pythiophilum Corda ['Sphaeronaema'] 176
Sphaeropsis malorum (Berk.) Berk. 166
Stigmina hartigiana (Sacc.) M. B. Ellis 176
Sydowia polyspora (Bref. & v. Tav.) E. Müll. 176
Thielavia basicola Zopf 177
Thielaviopsis basicola (Berk. & Br.) Ferraris 177
Torula basicola Berk. & Br. 177
Trichoseptoria fructigena Maubl. 172
Tyromyces sulphureus (Bull. ex Fr.) Donk 170
Uncinula necator (Schw.) Burr. 177
Valsa occulta Fuck. 167
Valsa sordida Nitschke 177