

AN ANNOTATED LIST OF THE PUBLISHED NAMES  
IN ASTEROMELLA

S.G. VANEV<sup>1</sup> & H.A. VAN DER AA<sup>2</sup>

All species described in the coelomycetous genus *Asteromella* are listed with synonyms, literature data, and teleomorph connections, compiled from an extended literature. Measurements of pycnidia, diameter of the ostiolum and conidia of all species are given in a condensed form.

*Asteromella* is a large genus of plant-inhabiting coelomycetous fungi characterized by numerous globose or subglobose, thick-walled, dark brown, separate or more frequently aggregated pycnidial conidiomata with more or less papillate ostioles that are sometimes not well delineated or lacking. The conidia are very small, rod-shaped, bacterioid, one-celled, and hyaline.

The genus was described by Passerini & Thümen in 1880, and more than 160 species have been published up to now (Allescher, 1901; von Arx, 1981, 1983; Batista & Peres, 1961; Batista et al., 1960; Cash & Trotter, 1972; Corlett, 1991; Farr et al., 1989; Hawksworth et al., 1995; Rupprecht, 1957, 1959; Saccardo, 1882–1931; Sivanesan, 1984; Sutton, 1980; Tomilin, 1979).

Klebahn (1918) precisely described *Asteromella*-like pycnidial sporulation in the life cycle of some *Mycosphaerella* species, without applying any specific epithets. Later Higgins (1920, 1929, 1936) studied the connection between perfect and imperfect states of *Mycosphaerella* including *Asteromella*-like pycnidial forms.

In the modern mycotaxonomic literature, all *Asteromella* species are regarded as micro-pycnidial or spermogonial states of *Mycosphaerella* species (von Arx, 1949; Barr, 1972; Corlett, 1991; Sivanesan, 1984; Tomilin, 1979).

Most of the species included now in *Asteromella* have been described earlier as *Phyllosticta* or *Phoma*. Petrak (see Samuels, 1981). Rupprecht (1957, 1959) and many other authors have created numerous new combinations, transferring many *Phyllosticta* and *Phoma* species with very small, bacterioid conidia into *Asteromella*.

Despite its importance, ubiquity and abundance, *Asteromella* has never been monographed. No extensive compilation or taxonomic revision concerned with *Asteromella* has been published after the papers of Batista et al. (1960) and Batista & Peres (1961) dealing with some *Asteromella* species, and the annotated index of the names of new taxa and combinations in Petrak's publications compiled by Samuels (1982).

The present compilation is aimed to provide an alphabetical listing of the published specific and infraspecific names in *Asteromella*, to list the original place of publication for each name, to determine the basionym of each species transferred into *Asteromella*, and to provide data about the size of pycnidia, ostioles (o.) and conidia (c.) when available. Also the hosts and countries, if listed in the original description, are indicated.

1) Institute of Botany, 1113 Sofia, Bulgaria.

2) Centraalbureau voor Schimmelcultures, P.O. Box 273, 3740 AG Baarn, The Netherlands.

In a few cases when the original publications were unavailable to the authors, the data are cited according to Saccardo's (1882–1931) *Sylloge Fungorum* or some other sources.

The author's names and their abbreviations are in accordance with Brummitt & Powell (1992). Abbreviations of periodicals were listed as in the World List of Scientific Periodicals (Brown & Stratton, 1963–1965).

#### LIST OF PUBLISHED NAMES

**ASTEROMELLA** Passerini & Thüm. in Thüm., *Mycotheca Universalis* 1689, 1880; Sacc., *Syll. Fung.* 3 (1884) 182. — Type species: *A. ovata* Thüm.

*Apiosporella* Speg., *An. Mus. nac. Hist. nat. B. Aires* 23 (1912) 106, [non Speg. 1910, nec Höhn. 1909].

*Aplosporidium* Speg., *An. Mus. nac. Hist. nat. B. Aires* 23 (1912) 130.

*Stictochorella* Höhn., *Ber. dt. bot. Ges.* 35 (1917) 253.

*Stictochorellina* Petr., *Annls mycol.* 20 (1922) 337.

?*Phyllumochaeta* Gonz. Frag. & Cif., *Boln. Soc. esp. Hist. nat.* 27 (1927) 171.

#### Specific names

**acaciae** Cooke, *Grevillea* 19 (1890–1891) 5.

Pycnidia: up to 25 µm diam.; c.: 2.5 × 1 µm. — On *Acacia* sp. (Fabaceae); Australia. — Teleomorph: unknown.

**acorella** (Sacc. & Penz.) H. Ruppr., *Sydowia* 13 (1959) 10. — Basionym: *Phyllosticta acorella* Sacc. & Penz., *Michelia* 2 (1882) 620.

Conidia: 3.5–4 × 1–1.5 µm. — On *Acorus calamus* (Araceae); France. — Teleomorph: unknown.

**adeana** Petr., *Annls mycol.* 29 (1931) 122.

Pycnidia: 50–80 µm diam.; c.: 2.5 × 1 µm. — On *Viburnum tinus* (Caprifoliaceae); Spain. — Teleomorph: unknown.

**aegopodii** (Currey) Petr., *Sydowia* 4 (1950) 25. — Basionym not cited.

On Umbelliferae. — Teleomorph: unknown.

**aesculicarpa** Cooke & Massee, *Grevillea* 16 (1887–1888) 7.

Conidia: 10–12 × 3–4 µm. — On *Aesculus hippocastanum* (Hippocastanaceae); United Kingdom. — Teleomorph: unknown.

**aesculicola** (Sacc.) Petr., *Sydowia* 10 (1956) 266. — Basionym: *Phyllosticta aesculicola* Sacc., *Michelia* 1 (1879) 134.

Pycnidia: up to 120 µm diam.; o.: 40–80 µm; c.: 4–6 × 1–1.5 µm. — On *Aesculus hippocastanum* (Hippocastanaceae); Italy. With *Septoria* sp. as synanamorph. — Teleomorph: unknown.

**agropyri** Petr., *Hedwigia* 74 (1934) 53.

Pycnidia: 40–70(–90) µm diam.; o.: up to 20 µm diam.; c.: 4.5–8 × 0.5–0.8 µm. — On *Agropyron orientale* (Poaceae); Russia. — Teleomorph: unknown.

**alpigena** (Sacc.) H. Ruppr., *Sydowia* 13 (1959) 10. — Basionym: *Phyllosticta alpigena* Sacc., *Annls mycol.* 1 (1903) 26.

Pycnidia: 96–120 µm diam.; o.: 12 µm diam.; c.: 3.6–4.8 × 0.8 µm. — On *Lonicera alpigena* (Caprifoliaceae); Germany. — Teleomorph: unknown.

*ambiens* (H. & P. Sydow) Petr., Sydowia 4 (1950) 25. — Basionym: *Phoma ambiens* H. & P. Sydow, Annls mycol. 6 (1908) 53.

Pycnidia: 120–200 µm diam.; c.: 2.5–3.5 × 1 µm. — On *Prangos uloptera* (Apiaceae); Iran. — Teleomorph: unknown.

*andrewsii* Petr. nom. nov. in J.J. Davis, Trans. Wis. Acad. Sci. Arts Lett. 24 (1929) 269. = *Phyllosticta gentianaecola* (DC.) sensu Ellis & Everh., North Amer. Fungi No. 2766; non sensu DC.

On *Gentiana andrewsii* (Gentianaceae); USA. — Teleomorph: (?) *Mycosphaerella andrewsii* Sacc. (fide Davis, l.c.).

*angelicae* (Sacc.) Moesz in Bat. & Peres, Mems Soc. broteriana 14 (1961) 6. — Basionym: *Phyllosticta angelicae* Sacc., Michelia 2 (1882) 620.

Pycnidia: 80–95 µm diam.; c.: 2–4 × 1–1.5 µm. — On *Angelica silvestris* (Apiaceae); France and Italy. — Teleomorph: unknown.

*angustifoliorum* Ramaley, Mycotaxon 40 (1991) 19.

Pycnidia: 120 µm diam.; c.: 4–6 × 1–2 µm. — On *Populus angustifolia* (Salicaceae); USA. — Teleomorph: *Mycosphaerella angustifolium* (fide Ramaley, l.c.).

*anthemidis* (H. Ruppr.) H. Ruppr., Sydowia 11 (1957) 426. — Basionym: *Phoma anthemidis* H. Ruppr., Sydowia 11 (1957) 127.

Pycnidia: 170 µm diam.; o.: 12 µm diam.; c.: 4.8–6 × 1.4–2 µm. — On *Anthemis arvensis* (Asteraceae); Germany. — Teleomorph: *Mycosphaerella anthemidina* Petr. (fide Rupprecht, l.c.).

*artemisiae* E. Müller, Sydowia 4 (1950) 288.

Pycnidia: 120–150 µm diam.; c.: 2–3 × 1 µm. — On *Alyssum* sp. (Brassicaceae), *Artemisia campestris* (Asteraceae), *Clematis* sp. (Ranunculaceae), and *Epilobium* sp. (Onagraceae); Switzerland. — Teleomorph: ? *Leptosphaeria artemisiae* (Fuckel) Auersw. (fide Müller, l.c.).

*asteris* Peck, Bull. N.Y. St. Mus. 167 (1912) 38.

Pycnidia: 250 µm diam.; c.: 6–8 × 2–2.5 µm. — On *Aster paniculatus* (Asteraceae); USA. — Teleomorph: unknown.

*astragalicola* (C. Massal.) Petr., Annls mycol. 21 (1923) 300. — Basionym: *Phyllosticta astragalicola* C. Massal., Bot. Centbl. 26 (1890) 386.

Pycnidia: 60–80 µm diam.; c.: 3–4 × 1–1.5 µm. — On *Astragalus glycyphylloides* (Fabaceae); Italy. — Teleomorph: unknown.

*aterrima* Petr., Sydowia 10 (1956) 298.

Pycnidia: 90–130 µm diam.; o.: 20–25(–65) µm diam.; c.: 4.5–6 × 1 µm. — On *Colchicum* sp. (Liliaceae); Greece (Rhodos Island). — Teleomorph: unknown.

*atronitens* Petr. & Cif., Annls mycol. 28 (1930) 403.

Pycnidia: 70–100 µm diam.; c.: 3–6 × 1–1.5 µm. — On *Guettarda* sp. (Rubiaceae); Dominican Republic. — Teleomorph: unknown.

**austriaca** (Sacc.) H. Ruppr., Sydowia 11 (1957) 426. — Basionym: *Phyllosticta austriaca* Sacc., Malpighia 11 (1897) 305.

Pycnidia: 80–120 µm diam.; o.: 12 µm diam.; c.: 4.8–6 × 1.2 µm. — On *Doronicum austriacum* (Asteraceae); Italy. — Teleomorph: unknown.

**aviculariae** (West.) Petr., Sydowia 10 (1956) 302. — Basionym: *Melasmia aviculariae* West., Bull. Acad. r. Sci. Belg., Sér. 2, 2 (1857) 570.

On *Polygonum aviculare* (Polygonaceae); Belgium. — Teleomorph: unknown.

**bacillaris** Pass. & Beltran, Fungi Sic. No. 24, (Sacc., Syll. Fung. 3 (1887) 183).

Conidia: 2.5–3 × 0.75–1 µm. — On *Morus nigra* (Moraceae); Italy (Sicily). — Teleomorph: unknown.

**bacteriformis** (Pass.) Petr., Fl. Boh. Morav. Exs., Ser. 11, Abt. 1. Pilze, Lfg. 39, No. 1901 (1925). — Basionym: *Ascochyta bacteriformis* Pass., Mycoth. univ. No. 994 (Sacc., Syll. Fung. 3 (1884) 34).

On *Populus nigra* (Salicaceae); Italy. — Teleomorph: unknown.

**bacteroides** (Vuill.) Moesz, Arb. ung. biol. ForschInst. 13 (1941) 179. — Basionym: *Phyllosticta bacteroides* Vuill., Annls mycol. 3 (1905) 425.

Pycnidia: 42–73 µm diam.; c.: 2.5–3 × 0.5–1 µm. — On *Tilia sylvestris* (Tiliaceae); France. — With *Passalora microsora* (Sacc.) U. Braun as synanamorph. — Teleomorph: *Mycosphaerella* sp. (fide Moesz, l.c.); *Mycosphaerella microsora* Syd. (fide Tomilin, 1979).

**baldensis** (C. Massal.) H. Ruppr., Sydowia 13 (1959) 11. — Basionym: *Phyllosticta baldensis* C. Massal., Memorie Accad. Agr. Sci. Verona, Sér. 3, 65 (1889) 82.

Pycnidia: 60–80 µm diam.; c.: 3–6 × 1.5 µm. — On *Paeonia peregrina* (Ranunculaceae); Italy. — Teleomorph: unknown.

**bellunensis** Syd., Annls mycol. 30 (1932) 397.

Pycnidia: 60–90 µm diam.; o.: 12 µm diam.; c.: 2–3 × 0.5–0.8 µm. — On *Chrysanthemum corymbosum* (Asteraceae); Germany. — With *Ramularia bellunensis* Speg. as synanamorph. — Teleomorph: unknown.

**bellunensis** (N. Martelli) Boerema & Dorenb., Stud. Mycol. 3 (1973) 50 [homonym of *A. bellunensis* Syd.]. — Basionym: *Phyllosticta bellunensis* N. Mart., Nuovo G. bot. ital. 20 (1888) 395.

On *Ulmus* sp. (Ulmaceae); Italy. — Teleomorph: *Mycosphaerella ulmi* Kleb. (fide Boerema & Dorenb., l.c.).

**brassicae** (E. Chev.) Boerema & van Kesteren, Persoonia 3 (1964) 18. — Basionym: *Asteroma brassicae* E. Chev., Fl. Gén. Envir. Paris 1 (1826) 449.

Pycnidia: 39–90 µm diam.; c.: 3–4 × 0.75–1 µm. — On *Brassica oleracea* (Brassicaceae); France. — Teleomorph: *Mycosphaerella brassicicola* (Duby) Oudem. (fide Dring, Trans. Br. mycol. Soc. 44 (1961) 253).

**brassicina** (Sacc.) H. Ruppr., Sydowia 13 (1959) 11. — Basionym: *Phyllosticta brassicina* Sacc., Annls mycol. 11 (1913) 16.

Pycnidia: 80–90 µm diam.; c.: 3–4 × 0.5–1 µm. — On *Brassica oleracea* (Brassicaceae); Malta. — Teleomorph: unknown.

***burserae*** (Gonz. Frag. & Cif.) Syd., Annls mycol. 28 (1930) 175. — Basionym: *Phyllosticta burserae* Gonz. Frag. & Cif., Boln. R. Soc. esp. Hist. nat., Madrid 27 (1927) 168.

Pycnidia: 40–60(–95) µm diam.; c.: 3–4 × 1.3 µm. — On *Bursera gumifera* (Burseraceae); Dominican Republic. — Teleomorph: unknown.

***buteae*** S.M. Singh, Indian Phytopath. 31 (1978) 178 [as ‘*butea*’].

Pycnidia: up to 235 µm diam.; c.: 4.5–9.5 × 1.5–2.5 µm (average 6.5 × 2 µm). — On *Butea monosperma* (Fabaceae); India. — Teleomorph: unknown.

***carlinae*** Petr., Annls mycol. 25 (1927) 270.

Pycnidia: 65–90 µm diam.; c.: 3.5–5.5 × 1–1.5 µm. — On *Carlina vulgaris* (Asteraceae); Czech Republic. — Teleomorph: *Mycosphaerella carlinae* (Wint.) Lindau (fide Petrak, l.c.).

***carpatica*** (Petr.) Petr., Annls mycol. 21 (1923) 203. — Basionym: *Stictochorellina carpatica* Petr., Annls mycol. 20 (1923) 337.

Pycnidia: 50–80 µm diam.; c.: 3.5–5 × 1–1.25 µm. — On *Scopolia carniolica* (Solanaceae); Ukraine. — Teleomorph: unknown.

***castaneicola*** (Ellis & Everh.) Petr., Sydowia 11 (1957) 341 [as ‘*castanicola*’]. — Basionym: *Phyllosticta castanicola* Ellis & Everh., Proc. Acad. nat. Sci. Philad. 1895 (1896) 431.

Pycnidia: 80–100 µm diam.; c.: 3–3.5 × 1.25–1.5 µm. — On *Castanea chrysophylla*, and *Quercus lanuginosa* (Fagaceae); USA. — Teleomorph: *Mycosphaerella janus* (Berk. & M.A. Curtis) Petr. (fide Petrak, l.c.).

***cedrelae*** Petr., Annls mycol. 27 (1929) 404.

Pycnidia: 50–80 µm diam.; o.: 10–15 µm diam.; c.: 2–3.5 × 0.5–1 µm. — On *Cedrela tonduzii* (Meliaceae); Costa Rica. — Teleomorph: unknown.

***cerasicola*** (Speg.) H. Ruppr., Sydowia 13 (1959) 12. — Basionym: *Phyllosticta cerasicola* Speg., An. Soc. cient. argent. 10 (1880) 152.

Pycnidia: 80–90 µm diam.; c.: 4 × 1 µm. — On *Prunus cerasus* (Rosaceae); Argentina. — Teleomorph: *Mycosphaerella* sp. (fide Rupprecht, l.c.).

***chaerophylli*** (C. Massal.) Petr., Annls mycol. 38 (1940) 264. — Basionym: *Phyllosticta chaerophylli* C. Massal., Memorie Accad. Agric. Sci. Verona 65 (1889) 83.

Pycnidia: up to 100 µm diam.; o.: 12–15 µm diam.; c.: 2.5–5 × 1–1.5 µm. — On *Angelica* sp., *Heracleum* sp., and *Chaerophyllum hirsutum* (Apiaceae); Italy. — Teleomorph: ? *Mycosphaerella morthieri* (Fuckel) Petr. (fide Petrak, l.c.).

***chamaebuxi*** Petr., Sydowia 13 (1959) 79.

Pycnidia: 40–100 µm diam.; c.: 5–8(–10) × 1–1.5 µm. — On *Polygala chamaebuxus* (Polygalaceae); Austria. — Teleomorph: unknown.

***claytoniae*** Murashk. in Murashk. & Ziling, Trudy omsk. sel'khoz. Inst. 3 (1) (1927) 5.

Pycnidia: 90–100 × 75–85 µm; c.: 3–4.5 × 0.6–0.8 µm. — On *Claytonia joaneana* (Portulacaceae); Russia. — Teleomorph: unknown.

***clemensae*** Syd. in Syd. & Petr., Annls mycol. 26 (1928) 439.

Pycnidia: up to 1000 µm diam.; o.: 35–60 µm diam.; c.: 2–3 × 0.5 µm. — On *Sterculia cuneata* (Sterculiaceae); Philippines. — Teleomorph: unknown.

**coccothrinacis** Petr. & Cif., Annls mycol. 28 (1930) 404.

Pycnidia: 50–90 µm diam.; o.: 7–12(–20) µm diam.; c.: 2–3 × 0.7 µm. — On *Coccothrinax argentea* (Palmae); Dominican Republic. — Teleomorph: *Mycosphaerella* sp. (fide Petrak & Sydow, l.c.).

**cocoes** Bat. & J.L. Bezerra, Mycopath. Mycol. appl. 25 (1956) 3.

Pycnidia: 70–130 × 75–150 µm diam.; o.: 7.5–10 µm diam.; c.: 3–4 × 0.8–1 µm. — On *Cocos nucifera* (Palmae); Brazil. — Teleomorph: unknown.

**cocogena** Boerema, Loer. & Hamers, Persoonia 16 (1996) 157.

Pycnidia: 52–100 µm; o.: 11–13 µm diam.; c.: 4–4.5 × 1 µm. — On *Cocos nucifera* (Palmae); Taiwan. — Teleomorph: ? *Mycosphaerella* sp. (fide Boerema et al., l.c.).

**compositorum** Bat., J.L. Bezerra & Poroca, Atas Inst. Micol. Recife 5 (1967) 74.

Pycnidia: 48–55 µm diam.; c.: 2–4 × 0.75–1.5 µm. — On Asteraceae; Brazil. — Teleomorph: ? *Mycosphaerella ixodiae* Hansf. (fide Batista et al., l.c.).

**confusa** (Bubák) Petr., Hedwigia 65 (1925) 253. — Basionym: *Phyllosticta confusa* Bubák, apud Tranzschel & Serebrianikow, Mycoth. Rossica No. 330 (1912); Hedwigia 57 (1916) 339.

Pycnidia: 130–180 µm diam.; o.: 10–15 µm diam.; c.: 3–4 × 1.5 µm. — On *Chenopodium* sp. (Chenopodiaceae); Ukraine. — Teleomorph: unknown.

**convallariae** (Cavara) Petr., Annls mycol. 21 (1923) 205. — Basionym: *Dendrophoma convallariae* Cavara, Mat. Lomb., p. 18, t. 2, f. 6; Sacc., Syll. Fung. 10 (1892) 211.

Pycnidia: 70–90 µm diam.; c.: 4–5 × 1.25 µm. — On *Convallaria majalis* (Liliaceae); Italy. — Teleomorph: ? *Mycosphaerella brunneola* (Fr.: Fr.) Johanson ex Oudem. (fide Petrak, l.c.).

**corcontica** (Kabát & Bubák) Moesz in Bat. & Peres, Mem. Soc. broteriana 14 (1961) 12. — Basionym: *Phyllosticta corcontica* Kabát & Bubák, Sber. K. böhm. Ges. Wiss., Math.-naturw. Kl. 11 (1903) 2.

Pycnidia: 50–70 µm diam.; c.: 3.5–5 × 1.5 µm. — On *Hieracium alpinum* (Asteraceae); Czech Republic. — With *Ramularia corcontica* Bubák & Kabát as synanamorph. — Teleomorph: unknown.

**coriariae** Petr., Annls mycol. 29 (1931) 270.

Pycnidia: 25–70(–120) µm diam.; o.: 6–12 µm diam.; c.: 2.5–4 × 0.5–1 µm. — On *Coriaria intermedia* (Coriariaceae); Philippines. — Teleomorph: unknown.

**coryphae** Petr. & Syd., Annls mycol. 21 (1923) 373.

Pycnidia: 80–110 µm diam.; o.: 25 µm diam.; c.: 2.5–3.5 × 1 µm. — On *Corypha umbraculifera* (Palmae); Philippines. — Teleomorph: unknown.

**cretica** Petr. in Rechinger, Sber. Akad. Wiss. Wien, Math.-naturw. Kl., Abt. 1, 105 (2) (1943) 21.

On *Lactuca* sp. (Asteraceae); Greece (Crete). — Teleomorph: unknown.

**cynanchicola** Petr., Annls mycol. 21 (1923) 104.

Pycnidia: 50–80 µm diam.; c.: 2–3 × 1 µm. — On *Cynanchum vincetoxicum* (Asclepiadaceae); Czech Republic — Teleomorph: ? *Mycosphaerella albescens* (Rabenh.) Lindau (fide Petrak, l.c.).

*delphinii* Petr., Sydowia 3 (1949) 315.

Pycnidia: 60–80(–100) µm diam.; c.: 2.5–4 × 0.5–1 µm. — On *Delphinium* sp. (Ranunculaceae); Iran. — Teleomorph: unknown.

*dentariae* (Kabát & Bubák) H. Ruppr., Sydowia 11 (1957) 122. — Basionym: *Phyllosticta dentariae* Kabát & Bubák, Hedwigia 57 (1907) 288.

Pycnidia: 120–165 µm diam.; c.: 3–5 × 1.5–2 µm. — On *Dentaria enneaphyllos* (Brassicaceae); Austria. — Teleomorph: unknown.

*dictamni* Petr., Ber. bayer. bot. Ges. 2 (1931) 182.

Pycnidia: 50–90 µm diam.; c.: 2.5–3 × 0.5–0.8 µm. — On *Dictamnus fraxinella* (Rutaceae); Germany. — With *Septoria dictamni* Fuckel as synanamorph. — Teleomorph: *Mycosphaerella dictamni* Petr. (fide Petrak, Sydowia 1: 145, 1947).

*digitalis ambiguae* Arx, Sydowia 3 (1949) 94.

Pycnidia: 65–100 µm diam.; o.: 10–15 µm diam.; c.: 2–3.5 × 0.75–1 µm. — On *Digitalis ambigua* (Scrophulariaceae); Switzerland. — With *Ramularia digitalis-ambiguae* Arx as synanamorph. — Teleomorph: *Mycosphaerella digitalis-ambiguae* Arx (fide von Arx, l.c.).

*dombeyae* Petr., Sydowia 13 (1959) 229.

Pycnidia: 50–75 µm diam.; o.: 15–20 µm diam.; c.: 2.5–3.5 × 0.6–1 µm. — On *Dombeya* sp. (Bignoniaceae); Tanzania. — With *Septoria dombeyae* Petr. as synanamorph. — Teleomorph: *Mycosphaerella* sp. (fide Petrak, l.c.).

*doronicigena* (Bubák) Petr. in Murashk. & Ziling, Mater. Pilzfl. Altaj & Sajany (1929) 20. — Basionym: *Phyllosticta doronicigena* Bubák, Növ. Közl. 4 (1907) 23.

Pycnidia: 90–120 µm diam.; c.: 3–4.5 × 1 µm. — On *Doronicum cordatum* (Asteraceae); Hungary. — Teleomorph: ? *Mycosphaerella aronici* Volkart (fide Brandenburger, Paras. Pilze Gefäßpfl. Europa (1985) 645).

*drymariae* Syd., Annls mycol. 37 (1939) 406.

Pycnidia: 60–110 µm diam.; o.: 6–8 µm diam.; c.: 2–3.5 × 0.5–0.8 µm. — On *Drymaria cordata* (Caryophyllaceae); Ecuador. — Teleomorph: ? *Mycosphaerella drymariae* H. & P. Syd. (fide Sydow, l.c.).

*ebuli* (Fuckel) Moesz in Bat. & Peres, Mem. Soc. broteriana 14 (1961) 14. — Basionym: *Ascochyta ebuli* Fuckel, Symb. Mycol. (1870) 386.

Pycnidia: 57.5–87.5 µm diam.; o.: 7–12 µm diam.; c.: 4–8.5 × 1.4 µm. — On *Sambucus ebulus* (Caprifoliaceae); Germany. — Teleomorph: unknown.

*epitrema* Cooke, Grevillea 20 (1891–1892) 6.

Conidia: 10–12 × 3 µm. — On *Trema aspera* (Ulmaceae); Australia. — Teleomorph: unknown.

*eupatoriicola* (Kabát & Bubák) H. Ruppr., Sydowia 11 (1957) 122. — Basionym: *Phyllosticta eupatoriicola* Kabát & Bubák, Hedwigia 66 (1907) 288.

Pycnidia: 50–85 µm diam.; c.: 3–4(–5) × 1–1.5 µm. — On *Eupatorium cannabinum* (Asteraceae); Austria. — Teleomorph: *Mycosphaerella* sp. (fide Rupprecht, l.c.).

*ferulina* Petr., Annln naturhist. Mus. Wien 52 (1941) 369.

Pycnidia: 70–150 µm diam.; c.: 3.5–6 × 1–2 µm. — On *Ferula foetida* (Apiaceae); Iran. — Teleomorph: *Mycosphaerella* sp. (fide Petrak, Sydowia 3 (1949) 316).

**fibrillosa** (Desm.) Sacc., Syll. fung. 11 (1885) 499. — Basionym: *Perisporium fibrillosum* Desm., Bull. Soc. bot. Fr. 4 (1857) 862.

Pycnidia: 110–130 µm diam.; o.: 30 µm diam.; c.: 3–5 µm. — On *Scrophularia aquatica* (Scrophulariaceae); France.

**fibrillosa** var. **predicta** Roberge in Desm., Bull. Soc. bot. Fr. 4 (1857) 862.

On *Stachys* sp., *Ballota* sp., and *Mentha* sp. (Lamiaceae); France. — Teleomorph: unknown.

**fici** Peres & J.L. Bezerra in Lopes & Heringer, Archos Jard. bot. Rio de J. 25 ('1981', in 1982) 107.

Pycnidia: 180–270 µm diam.; o.: 15.5–22 µm diam.; c.: 7.5 × 1.5 µm. — On *Ficus elastica* (Moraceae); Brazil. — With *Phyllosticta tayuvae* Viégas as synanamorph. — Teleomorph: *Mycosphaerella fici-ovatae* Hansford (fide Peres & Bezerra, l.c.).

**fraxini** (Berk. & M.A. Curtis) Petr., Annls mycol. 21 (1923) 269. — Basionym: *Diggotia fraxini* Berk. & M.A. Curtis, North Amer. Fungi No. 433-bis (Sacc., Syll. Fung. 3 (1884) 637).

Conidia: 5–7 µm. — On *Fraxinus* sp. (Oleaceae); USA. — Teleomorph: *Mycosphaerella effigurata* (Schwein.) House (fide Wolf & Davidson, Mycologia 33 (1941) 533).

**gaboonensis** Cooke & Massee, Grevillea 15 (1886–1887) 111.

Conidia: 6 × 4 µm. — On withering herbaceous plants; Gabon. — Teleomorph: unknown.

**galii** Moesz & Lindtner, Bot. Közl. 39 (1942) 192.

Pycnidia: 75–137 µm diam.; o.: 10–13 µm diam.; c.: 3.5–5 × 1 µm. — On *Galium schultesii* (Rubiaceae); Serbia. — With *Phyllosticta asperulae* Sacc. & Fautr. as synanamorph. — Teleomorph: unknown.

**galii-schultesii** Moesz in Bat. & Peres, Mems Soc. broteriana 14 (1961) 14 (*nom. inval.* — Art. 36.1).

Pycnidia: 50–115.5 µm diam.; o.: 14–17.5 µm diam.; c.: 3–7 × 0.7–1.4 µm. — On *Galium schultesii* (Rubiaceae); Hungary. — Teleomorph: unknown.

**gentianellae** (C. Massal.) Petr., Hedwigia 65 (1925) 253. — Basionym: *Phyllosticta gentianellae* C. Massal., Malpighia 8 (1894) 196.

Pycnidia: 40–55 µm diam.; c.: 2.5–4 × 0.7–1 µm. — On *Gentiana asclepiadea* (Gentianaceae); Italy. — Teleomorph: *Mycosphaerella gentianae* (Niessl) Lindau (fide Petrak, Hedwigia 65 (1924–1925) 254).

**gorholttii** H. Ruppr., Sydowia 11 (1957) 122.

Pycnidia: 50–75 µm diam.; o.: 15–20 µm diam.; c.: 3.6–4.8 × 0.8 µm. — On *Corylus avellana* (Betulaceae); Germany. — Teleomorph: unknown.

**gratissima** Petr. & Cif., Annls mycol. 28 (1930) 405.

Pycnidia: 35–50 µm diam.; c.: 2–3 × 0.6 µm. — On *Persea gratissima* (Lauraceae); Dominican Republic. — Teleomorph: unknown.

**gregariella** Petr., Hedwigia 74 (1934) 52.

Pycnidia: 50–80(–100) µm diam.; o.: 10–30 µm diam.; c.: 2.5–4 × 0.5–0.8 µm. — On *Serratula coronata* (Asteraceae); Russia. — Teleomorph: unknown.

*gymnosporiae* Syd. in Syd. & Petr., Annls mycol. 29 (1931) 271.

Pycnidia: 40–80 µm diam.; o.: 10 µm diam.; c.: 3–5 × 0.7–1 µm. — On *Gymnosporia spinosa* (Celastraceae); Philippines. — Teleomorph: unknown.

*hederacea* Petr., Sydowia 11 (1957) 348. = *Asteromella hederae* (Sacc. & Roum.) Petr., Sydowia 10 (1956) 303, non *A. hederae* C. Massal. — Basionym: *Phyllosticta hederae* Sacc. & Roum., Michelia 2 (1882) 620.

Pycnidia: 130 µm diam.; c.: 4 × 1 µm. — On *Hedera helix* (Araliaceae); France. — Teleomorph: *Mycosphaerella hedericola* (Desm.) Lindau (fide Petrak, l.c.).

*hederae* C. Massal., Atti Ist. veneto Sci., Sci. mat. nat. 61, 2 (1900) 684.

Conidia: 2–3 × 1–1.5 µm. — On *Hedera helix* (Araliaceae); Italy. — Teleomorph: unknown.

*hederae* Petr. in Bremer et al., Istanb. Üniv. Fen. Fak. Mecm., Ser. B., Cilt 17 (1953) 260 (*nom. inval.*, Art. 36.1).

On *Hedera helix* (Araliaceae); Turkey. — With *Phyllosticta hedericola* Durrieu & Mont. and *Vermicularia trichella* Fr. as synanamorphs (acc. to Petrak, l.c.). — Teleomorph: unknown.

*hederae* (Sacc. & Roum.) Petr., Sydowia 10 (1956) 303. — Basionym: *Phyllosticta hederae* Sacc. & Roum., Michelia 2 (1882) 620.

Pycnidia: 130 µm diam.; c.: 4 × 1 µm. — On *Hedera helix* (Araliaceae); France, Belgium. — Teleomorph: unknown.

*helleboricola* (C. Massal.) Moesz, Bot. Közl. 35 (1938) 64. — Basionym: *Phyllosticta helleboricola* C. Massal., Memorie Accad. Agric. Sci. Verona, Sér 3, 65 (1889) 81.

Pycnidia: 70–100 µm diam.; o.: 7–14 µm diam.; c.: 3–7 × 1–1.5 µm. — On *Helleborus viridis* (Ranunculaceae); Italy. — Teleomorph: unknown.

*heringeri* Bat. & J.L. Bezerra in Bat., J.L. Bezerra & Cif., Ann. Congr. Soc. bot. Brasil 13 ('1962', in 1964) 477.

On Leguminosae leaves. — Teleomorph: unknown.

*heucherae* (Ellis & Everh.) Petr., Sydowia 9 (1955) 493. — Basionym: *Phyllosticta heucherae* Ellis & Everh., Am. Nat. 31 (1897) 428.

Pycnidia: 110 µm diam.; c.: 5–6 × 1–1.25 µm. — On *Heuchera cylindrica* (Saxifragaceae); USA. — Teleomorph: *Mycosphaerella heucherae* (Ellis & Everh.) Petr. (fide Petrak, Sydowia 11 (1957) 340).

*homalanthi* Cooke & Massee, Grevillea 20 (1891–1892) 65.

Conidia: 5 × 3 µm. — On *Homalanthus populifolius* (Euphorbiaceae); Australia. — Teleomorph: unknown.

*hranicensis* Petr., Sydowia 6 (1952) 235 (*nom. inval.* – Art. 36.1).

On *Quercus lanuginosa* (Fagaceae); Austria. — With *Septoria* sp. as synanamorph. — Teleomorph: *Mycosphaerella* sp. (fide Petrak, l.c.).

*hybridae* (Mig.) H. Ruppr., Sydowia 13 (1959) 11. — Basionym: *Phyllosticta hybridae* Mig., Cryptog. Germ., Austriae & Helv. exs., fasc. 56 and 57, Pilze No. 399.

Pycnidia: 70 µm diam.; c.: 3–4.5 × 1 µm. — On *Sorbus hybrida* (Rosaceae); Germany. — Teleomorph: unknown.

*innumerata* (Cooke & Harkn.) Petr., Sydowia 9 (1955) 494. — Basionym: *Phyllosticta innumerata* Cooke & Harkn., Bull. Calif. Acad. Sci. 1 (1884) 14.

Conidia:  $4.5 \times 2 \mu\text{m}$ . — On unknown plant ?; USA. — Teleomorph: unknown.

*inulae* Petr., Sydowia 1 (1947) 134.

Pycnidia:  $70-150 \mu\text{m}$  diam.; o.:  $8-12 \mu\text{m}$  diam.; c.:  $3-5 \times 1-1.5 \mu\text{m}$ . — On *Inula hirta* (Asteraceae); Austria. — Teleomorph: unknown.

*isopyri* (Thüm.) Petr. & Syd., Annls mycol. 23 (1925) 249. — Basionym: *Sphaeropsis isopyri* Thüm., Bull. Soc. Imp. Nat. Mosc. 55 (1880) 226.

Conidia:  $12 \times 5.5-6.5 \mu\text{m}$ , acc. to Thümen ( $4-5 \times 1 \mu\text{m}$ , acc. to Petrak & Sydow, l.c.). — On *Isopyrum fumarioides* (Ranunculaceae); Russia. — Teleomorph: *Mycosphaerella* sp. (fide Petrak, l.c.).

*jasminicola* (Desm.) Petr., Annls mycol. 32 (1934) 397. — Basionym: *Sphaeria jasminicola* Desm., Annls Sci. nat. (Bot.), Sér. 3, 6 (1846) 83.

Pycnidia:  $50-60 \mu\text{m}$  diam.; o.:  $8-10 \mu\text{m}$  diam.; c.:  $2-3 \times 0.5 \mu\text{m}$ . — On *Jasminum officinale* (Oleaceae); France. — Teleomorph: *Mycosphaerella* sp. (fide Petrak, l.c.).

*kalmicola* (Schwein.) Petr. in Syd. & Petr., Annls mycol. 22 (1924) 396 [as ‘*kalmicola*’]. — Basionym: *Sphaeria kalmicola* Schwein., Trans. Am. phil. Soc. 2 (4) (1832) 226.

Pycnidia:  $50-80 \mu\text{m}$  diam.; c.:  $2-4 \times 0.5-0.7 \mu\text{m}$ . — On *Kalmia latifolia* (Ericaceae); USA. — Teleomorph: unknown.

*kuemmerlei* Moesz, Bot. Közl. 28 (1931) 162.

Pycnidia:  $40-50 \times 48-55 \mu\text{m}$ ; o.:  $7-10 \mu\text{m}$  diam.; c.:  $3-5 \times 1 \mu\text{m}$ . — On *Asphodelus microcarpa* (Liliaceae); Croatia. — Teleomorph: unknown.

*lagotidis* Murashk. & Ziling, Mater. Pilzfl. Altaj Sajany (1929) 20.

On *Lagotis glauca* (Scrophulariaceae); Russia. — Teleomorph: unknown.

*lantanae* Petr., Sydowia 7 (1953) 398.

Pycnidia:  $50-120 \mu\text{m}$  diam.; o.:  $12-15 \mu\text{m}$  diam.; c.:  $3-7 \times 2-2.5 \mu\text{m}$ . — On *Lantana camara* (Verbenaceae); USA (Hawaii). — Teleomorph: *Mycosphaerella* sp. (fide Petrak, l.c.).

*latemarensis* (Kabát & Bubák) H. Ruppr., Sydowia 13 (1959) 12. — Basionym: *Phyllosticta latemarensis* Kabát & Bubák, Öst. bot. Z. 55 (1905) 77.

Pycnidia:  $60-160 \mu\text{m}$  diam.; c.:  $4-6 \times 0.7-1 \mu\text{m}$ . — On *Colchicum autumnale* (Liliaceae); Italy. — With *Septoria gallica* Sacc. & Syd. as synanamorph. — Teleomorph: unknown.

*lathyri-silvestris* H. Ruppr., Sydowia 11 (1957) 123.

Pycnidia:  $120 \mu\text{m}$  diam.; o.: up to  $24 \mu\text{m}$  diam.; c.:  $3.6-4.8 \times 1.2 \mu\text{m}$ . — On *Lathyrus silvestris* (Fabaceae); Germany. — Teleomorph: unknown.

*longissima* (Persoon) Petr., Mycoth. Gen. (1801). — Basionym: *Sphaeria longissima* Pers., Syn. Meth. Fung. (1801) 31.

Conidia:  $4-6 \times 1.5-2 \mu\text{m}$ . — On *Chenopodium album* (Chenopodiaceae) and *Chaerophyllum bulbosum* (Apiaceae); France. — Teleomorph: unknown.

*ludwigii* Petr. in Syd., Annls mycol. 21 (1923) 174.

On *Epilobium hirsutum* (Onagraceae); Germany. — Among *Coleosporium* sp. (Uredinales). — Teleomorph: unknown.

*lupini* (Ellis & Everh.) Petr., Sydowia 9 (1955) 495. — Basionym: *Phoma lupini* Ellis & Everh., Bull. Wash. Coll. Lab. nat. Hist. 1 (1886) 6.

Pycnidia: 120–200 µm diam.; c.: 3–4 × 0.75–1.2 µm. — On *Lupinus* sp. (Fabaceae); USA. — Teleomorph: unknown.

*luzulae-nemorosae* Petr., Fl. Bohem. & Morav. Exs. Ser. 11, 1 Abt. Pilze, Lfg 34, 1666 (1923).

On *Luzula nemorosa* (Juncaceae); Czech Republic. — Teleomorph: unknown.

*luzulina* Syd., Annls mycol. 30 (1932) 108.

Pycnidia: 35–70 µm diam.; c.: 4–6 × 1 µm. — On *Luzula maxima* (Juncaceae); Germany. — Teleomorph: unknown.

*maculiformis* (Sacc.) Petr., Bot. Jahrb. 62 (4) (1928) 145. — Basionym: *Phyllosticta maculiformis* Sacc., Michelia 2 (1882) 538.

Pycnidia: 80–100 µm diam.; c.: 4 × 1 µm. — On *Castanea sativa*, *Fagus* sp. (Fagaceae), and *Fraxinus* sp. (Oleaceae); Italy. — Teleomorph: ? *Mycosphaerella maculiformis* (Pers.: Fr.) Schröt. (= *Sphaerella maculiformis* Pers.: Fr. — fide Saccardo, Syll. Fung. 3 (1884) 34).

*mali* (Briard) Boerema, in Boerema & Dorenb., Versl. plziektenk. Dienst 142 (Jaarb. 1964; 1965) 149. — Basionym: *Phyllosticta mali* Briard, Fl. crypt. Aube, Suppl. Catal. Troyes (1888) 79.

Pycnidia: 80–100 µm diam.; c.: 4–5 × 1.5–2 µm. — On *Malus communis* (Rosaceae); France. — Teleomorph: unknown.

*melanoplaca* (Thüm.) Petr., Annls mycol. 25 (1927) 373. — Basionym: *Phyllosticta melanoplaca* Thüm., Byull. mosk. Obshch. Ispyt Prir 55 (1880) 230.

Conidia: 4–5 × 2 µm. — On *Veratrum album* (Liliaceae); Russia. — Teleomorph: unknown.

*mespili* (Roberge & Desm.) Petr., Annls mycol. 25 (1927) 211. — Basionym: *Asteroma mespili* Roberge & Desm., Annls Sci. nat. (Bot.), Sér. 3, 14 (1850) 6.

On *Mespilus germanica* (Rosaceae); France. — Teleomorph: *Mycosphaerella* sp. (fide Petrak, l.c.).

*metopii* Petr., Annls mycol. 30 (1932) 263.

Pycnidia: 40–60 µm diam.; o.: 5–8 µm diam.; c.: 2–3 × 0.7–0.9 µm. — On *Metopium brownei* (Anacardiaceae); Dominican Republic. — Teleomorph: unknown.

*microsticta* Petr. & Cif., Annls mycol. 28 (1930) 406.

Pycnidia: 70–100 µm diam.; o.: 7–12 µm diam.; c.: 2–3 × 0.7–1.3 µm. — On *Desmodium tortuosum* (Fabaceae); Dominican Republic. — Teleomorph: unknown.

*moliniae* Syd., Annls mycol. 32 (1934) 295.

Pycnidia: 40–60 µm diam.; o.: 6–8.5 µm diam.; c.: 3–4 × 0.6–0.8 µm. — On *Molinia caerulea* (Poaceae); Germany. — Teleomorph: unknown.

***monardellae*** (W.B. Cooke) Petr., Sydowia 10 (1956) 303. — Basionym: *Phyllosticta monardellae* W.B. Cooke, Mycobiota North Am. 20 (1940).

On *Monardella* sp. (Lamiaceae); USA. — Teleomorph: unknown.

***morgan-jonesii*** (as *morgan-jonii*) Sharma, Curr. Sci. 45 (17) (1976) 641.

Pycnidia: 70–130 µm diam.; c.: 2–2.8 × 1.2–1.5 µm. — On *Citrus maxima* (Rutaceae); India. — Teleomorph: unknown.

***muscorum*** (Rostr.) Moesz, Folia cryptog., Szeged 1 (1932) 1108. — Basionym: *Phoma muscorum* Rostr., Bot. Tidsskr. 25 (1903) 318.

Conidia: 5–6 × 1.2 µm. — On *Orthotrichum almatum* (Orthotrichaceae) and *Tetraplodon bryoides* (Splachnaceae); Denmark, Hungary. — Teleomorph: unknown.

***myriadea*** Cooke, Grevillea 19 (1890–1891) 3.

Conidia: 12 × 2–3 µm. — On coriaceous leaves (?); New Zealand. — Teleomorph: unknown.

***nogalesi*** Urries, An. Inst. bot. A.J. Cavanilles 14 (1956) 165.

Pycnidia: 50 µm diam.; c.: 2.5–4 × 1.5 µm. — On *Cytisus prolifer* (Fabaceae); Spain (Canary Islands). — Teleomorph: unknown.

***osteospora*** (Sacc.) H. Ruppr., Sydowia 13 (1959) 12. — Basionym: *Phyllosticta osteospora* Sacc., Michelia 1 (1879) 531.

Pycnidia: 80–90 µm diam.; c.: 6–7 × 1 µm. — On *Populus nigra* (Salicaceae), *Fraxinus* sp. (Oleaceae), *Morus* sp. (Moraceae), and *Rhamnus* sp. (Rhamnaceae); Italy, France. — Teleomorph: unknown.

***ourateae*** Bat., J.L. Bezerra & Poroca, Atas Inst. Micol. Univ. Recife 3 (1956) 152.

Pycnidia: 60–90 × 45–75 µm; c.: 1.5–3 × 0.75–1.5 µm. — On *Ouratea* sp. (Ochnaceae); Brazil. — With *Cercospora* sp. as synanamorph — Teleomorph: unknown.

***ovata*** Thüm., Mycoth. univ. No. 1689 (1880); Sacc., Syll. Fung. 3 (1884) 182.

Conidia: 2.5–3 × 1.5–2 µm. — On *Acer pseudoplatanus* (Aceraceae) and *Menispermum canadense* (Menispermaceae); Austria, Italy. — Teleomorph: unknown.

***ovata*** var. ***tiliophila*** Ferraris, Malpighia (1904) 494.

Conidia: 3–3.5 × 1–1.5 µm. — On *Tilia europaea* (Tiliaceae); Italy. — Teleomorph: unknown.

***oxytropis*** Murashk. in Murashk. & Ziling, Mater. Pilzfl. Altaj & Sajany (1929) 20.

On *Oxytropis alpina* (Fabaceae); Russia. — Teleomorph: unknown.

***paliuri*** (Lév.) Arx, Verh. K. Ned. Akad. Wet., Afd. Natuurk. 51 (3) (1957) 114. — Basionym: *Dothidea paliuri* Lév. in Demidoff, Voyage Russ. mérid., Crimée, Hongrie, Valachie, Mold. 1837, 2 (publ. 1842) 107; t. 5 (publ. 1842) f. 6; Herb. Berk. 9145 (Sacc., Syll. Fung. 10 (1892) 111).

Pycnidia: 50–80 µm diam.; c.: 3–5 × 0.7–1 µm. — On *Paliurus aculeatus* (Rhamnaceae); Russia. — Teleomorph: *Mycosphaerella* sp. (fide von Arx, l.c.).

***paradisiaca*** Petr., Annls mycol. 21 (1923) 313.

Pycnidia: 75–100 µm diam.; o.: up to 10 µm diam.; c.: 2–3 × 0.5–0.75 µm. — On *Musa textilis* and *M. paradisiaca* (Musaceae); Philippines. — Teleomorph: *Mycosphaerella musae* (Speg.) Syd. (fide Petrák, l.c.).

*pedicularidis* (Solheim) Petr., Sydowia 15 (1961) 214. — Basionym: *Phyllosticta pedicularidis* Solheim, Univ. Wyo. Publs. 24 (1960) 44.

Pycnidia: 40–80 µm diam.; c.: 3–4.5 × 1 µm. — On *Pedicularis paysonia* (Scrophulariaceae); Germany. — Teleomorph: *Mycosphaerella* sp. (fide Petrak, l.c.)

*perpusilla* Speg., Bol. Acad. nac. Cienc. Cordoba 11, 4 (1889) 596.

Pycnidia: 40–50 µm diam.; c.: 7–8 × 2.5–3 µm. — On non-identified plants; Brazil. — Teleomorph: unknown.

*personata* (Allesch.) H. Ruppr., Sydowia 13 (1959) 13. — Basionym: *Phyllosticta personata* Allesch., Allg. bot. Z. 2 (1895) 25.

Pycnidia: 90–120 µm diam.; c.: 3.6–4.8 × 1 µm. — On *Carduus personatus* (Asteraceae); Germany. — Teleomorph: unknown.

*petasitidis* Petr., Annls mycol. 21 (1923) 282.

Pycnidia: 40–50 µm diam.; c.: 2–3 × 1.5 µm. — On *Petasites officinalis* (Asteraceae); Czech Republic. — With *Ramularia* sp. as synanamorph. — Teleomorph: *Mycosphaerella* sp. (fide Petrak, l.c.).

*phalaridis* Syd., Annls mycol. 38 (1940) 469.

Pycnidia: 100–150 µm diam.; o.: 8–12 µm diam.; c.: 3–5 × 1 µm. — On *Phalaris arundinacea* (Poaceae); Germany. — Teleomorph: unknown.

*phyteumatis* Petr., Annls mycol. 23 (1925) 140.

Pycnidia: 60–100 µm diam.; c.: 3–4(–5) × 0.5–0.8 µm. — On *Phyteuma spicatum* (Campanulaceae); Slovak Republic. — With *Ramularia phyteumatis* Sacc. & Wint. as synanamorph. — Teleomorph: *Mycosphaerella* sp. (fide Petrak, l.c.).

*picbaueri* Petr., Annls mycol. 22 (1924) 104.

Pycnidia: 70–100 µm diam.; c.: 5–8(–10) × 1–1.5 µm. — On *Astragalus cicer* (Fabaceae); Czech Republic. — With *Septoria astragali* (Desm.) Sacc. as synanamorph. — Teleomorph: *Mycosphaerella* sp. (fide Petrak, l.c.).

*piricola* (Sacc. & Speg.) Moesz, Bot. Közl. 39 (1942) 192. — Basionym: *Phyllosticta pircola* Sacc. & Speg., Michelia 1 (1878) 153.

Pycnidia: 62–150 µm diam.; c.: 2.5–5 × 0.75–1 µm. — On *Pyrus pyraster* (Rosaceae); Italy. — Teleomorph: unknown.

*pistaciarum* Bremer & Petr., Sydowia 1 (1947) 253.

Pycnidia: 45–110 µm diam.; c.: 3–5 × 1 µm. — On *Pistacia vera* (Anacardiaceae); Turkey. — With *Septoria pistaciarum* Carac. as synanamorph. — Teleomorph: *Mycosphaerella* sp. (fide Bremer et al., Istanb. Univ. Fen. Fak. Mecm. Ser. B, 17 (3) (1952) 260).

*pivensis* (Bubák) Moesz, apud Bat. & Peres, Mem. Soc. broteriana 14 (1961) 20. — Basionym: *Phyllosticta pivensis* Bubák, Bot. Közl. (1915) 62.

Pycnidia: 70–105 µm diam.; o.: 16–24.5 µm diam.; c.: 3–6 × 0.7–1.4 µm. — With *Ramularia geranii-phaei* (C. Massal.) Magn. as synanamorph. — On *Geranium phaeum* and *Geranium reflexum* (Geraniaceae); Yugoslavia (Montenegro). — Teleomorph: unknown.

*platanoidis* (Sacc.) Petrak, Hedwigia 65 (1925) 254. — Basionym: *Phyllosticta platanoidis* Sacc., Michelia 1 (1879) 360.

Pycnidia: 70–80 µm diam.; c.: 2–4 × 0.5–1 µm. — On *Acer platanoides*, *Acer pseudoplatanus*, *Acer negundo*, and *Acer truncatum* (Aceraceae); Italy, France. — Teleomorph: unknown.

*pleurospermi* (Died.) Petr., Sydowia 13 (1959) 82. — Basionym: *Phyllosticta pleurospermi* Died., Hedwigia 42 (1903) (165).

Pycnidia: 50–70 µm diam.; c.: 3 × 1 µm. — On *Pleurospermum austriacum* (Apiaceae); Germany. — Teleomorph: unknown.

*podocarpi* Syd., Annls mycol. 28 (1930) 176.

Pycnidia: 80–120 µm diam.; o.: 10 µm diam.; c.: 3–4 × 1–1.8 µm. — On *Podocarpus coriaceae* (Podocarpaceae); Venezuela. — Teleomorph: unknown.

*poeverleinii* Petrak, Annls mycol. 29 (1931) 355.

Pycnidia: 45–75 µm diam.; o.: up to 10 µm diam.; c.: 3–6 × 0.7–1 µm. — On *Hypochaeris uniflora* (Asteraceae); Switzerland. — Teleomorph: *Mycosphaerella* sp. (fide Petrak, l.c.).

*pomi* Boerema, Loer. & Hamers, Persoonia 16 (1996) 168.

Pycnidia: 50–115 µm diam.; c.: 2–2.5(–3.5) × 0.8–1 µm. — On *Malus sylvestris* (= *M. pumila*, Rosaceae); Australia. — With *Pseudocercosporella pomi* (Brooks) Noordel. & Boerema as synanamorph. — Teleomorph: *Mycosphaerella* sp. (fide Walton & Penrose, Science 63 (1926) 236).

*praetervisa* (Bubák) H. Ruppr., Sydowia 11 (1957) 122. — Basionym: *Phyllosticta praetervisa* Bubák, Annls mycol. 2 (1904) 397.

Pycnidia: 30–70 µm diam.; c.: 4–5 × 1 µm. — On *Tilia parvifolia* and *T. platyphyllos* (Tiliaceae); Czech Republic, Germany. — Teleomorph: unknown.

*pulmonariae* Moesz in Bat. & Peres, Mems Soc. broteriana 14 (1961) 21 (*nom. inval.* — Art. 36.1).

Pycnidia: 50–87 × 56–105 µm; o.: 17.5–20 µm diam.; c.: 2–4 × 1.5 µm. — On *Pulmonaria officinalis* (Boraginaceae); Hungary. — Teleomorph: unknown.

*quercifolii* C. Massal., Memorie Accad. Agric. Sci. Verona, Sér. 3, 65 (1889) 131.

Conidia: 2–4 × 0.7–1 µm. — On *Quercus robur* (Fagaceae); Italy. — Teleomorph: unknown.

*resedae* (Oudem.) Petr., Annls mycol. 27 (1929) 405. — Basionym: *Phoma resedae* Oudem., Beih. bot. Zbl 11 (1902) 534 (Extr.: 12).

Conidia: 2 × 0.5 µm. — On *Reseda odorata* (Resedaceae); the Netherlands. — Teleomorph: unknown.

*rhipsalidicola* (Speg.) Cif., Quad. Ist. bot. Univ. Lab. crittogram. Pavia 19 (1961) 250. — Basionym: *Phoma rhipsalidicola* Speg., An. Mus. nac. Hist. nat. B. Aires 23 (1912) 112.

Conidia: 10–13 × 5–6 µm. — On *Rhipsalis lorentiana* (Cactaceae); Argentina. — Teleomorph: unknown.

*rhodiola* Petr., Sydowia 10 (1956) 256.

Pycnidia: 60–80 µm diam.; o.: 15 µm diam.; c.: 3–3.5 × 1–1.5 µm. — On *Sedum rhodiola* (Crassulaceae); Sweden. — Teleomorph: unknown.

***rosicola*** (C. Massal.) H. Ruppr., Sydowia 13 (1959) 14. — Basionym: *Phyllosticta rosicola* C. Massal., Atti Ist. veneto Sci. Lett. Arti 59 (1900) 687.

Pycnidia: 60–80 µm diam.; c.: 2.5–4 × 1 µm. — On *Rosa gallica* (Rosaceae); Italy. — Teleomorph: unknown.

***saccardoi*** (Thüm.) Petr., Hedwigia 74 (1934) 54. — Basionym: *Phyllosticta saccardoi* Thüm., Instituto, Coimbra 28 (1881) 550.

Pycnidia: 50 µm diam.; c.: 4 × 1 µm. — On *Rhododendron ponticum* (Ericaceae); France, Portugal. — Teleomorph: unknown.

***saginae*** Urries, An. Inst. bot. A.J. Cavanilles 14 (1956) 164.

Pycnidia: 20–50 µm diam.; c.: 2–3 × 1 µm. — On *Sagina procumbens* var. *apetala* (Caryophyllaceae); Spain (Canary Islands). — Teleomorph: *Mycosphaerella saginae* Urries (l.c. 161).

***saponariae*** (Fuckel) Petr., Sydowia 9 (1955) 492. — Basionym: *Ascochyta saponariae* Fuckel, Symb. Mycol. (1870) 388.

Pycnidia: 80 µm diam.; c.: 4 × 0.5 µm. — On *Saponaria officinalis* (Caryophyllaceae); Italy, Germany. — With *Septoria* sp. as synanamorph. — Teleomorph: unknown.

***scaevolae*** Petr., Sydowia 7 (1953) 399.

Pycnidia: 50–100 µm diam.; o.: 9–12 µm diam.; c.: 2.5–4 × 1.5–2 µm. — On *Scaevola* sp. (Goodeniaceae); USA (Hawaii). — Teleomorph: *Mycosphaerella scaevolae* Shear & Stevens (fide Petrak, l.c.).

***schultziae*** Murashk. in Murashk. & Ziling, Ber. Sibir. Inst. Land-u. Forstw, 9 (4) (1928) 7.

Pycnidia: 80(–74–85) × 55–65 µm; c.: 3.5–5.5 × 0.8 µm. — On *Schultzia compacta* (Apiaceae); Russia. — With *Septoria schultziae* Murashk. as synanamorph. — Teleomorph: unknown.

***scorzonerae*** (Petr.) Petr., Hedwigia 65 (1924–25) 254. — Basionym: *Phyllosticta scorzonerae* Petr., Annls mycol. 19 (1921) 86.

Pycnidia: 60–100 µm diam.; o.: 30 µm diam.; c.: 3–5 × 1 µm. — On *Scorzonera humilis* (Asteraceae); Ukraine. — With *Cercospora scorzonerae* Höhn. as synanamorph. — Teleomorph: unknown.

***scrophulariae*** (P. Karst.) H. Ruppr., Sydowia 11 (1957) 426. — Basionym: *Phoma scrophularina* P. Karst., Acta Fauna Fl. fenn. 27 (4) (1905) 8.

Pycnidia: 180–200 × 130 µm; o.: 18 µm diam.; c.: 3.5–5 × 1.2 µm. — On *Scrophularia nodosa* (Scrophulariaceae); Finland, Germany. — Teleomorph: unknown.

***semelicola*** Urries, An. Inst. bot. A.J. Cavanilles 14 (1956) 164.

Pycnidia: 25–50 µm diam.; c.: 2–3 × 1 µm. — On *Semele androgyna* var. *gayae* (Liliaceae); Spain (Canary Islands). — Teleomorph: *Mycosphaerella* sp. [non *Mycosphaerella semeles* Urries (fide Urries, l.c.)].

***silvarum*** Petr., Annls mycol. 23 (1925) 112.

Pycnidia: 40–60 µm diam.; c.: 2.5–3.5(–4) × 1.5–2 µm. — On *Carex sylvatica* (Cyperaceae); Czech Republic. — Teleomorph: *Mycosphaerella hranicensis* Petr. (fide Petrak, l.c.).

*solani* (Gonz. Frag. & Cif.) Cif., Quad. Ist. bot. Univ. Pavia 19 (1961) 250. — Basionym: *Phytonochaeta solani* Gonz. Frag. & Cif., Estac. Agron. Haina. Ser. Bot. 8 (1927) 44.

Pycnidia: 70–100 µm diam.; c.: 4–6.5 × 1.5 µm. — On *Solanum torvum* (Solanaceae); Dominican Republic. — Teleomorph: unknown.

*sphaerospora* Sacc. & Traverso, Annls mycol. 1 (1903) 439.

Pycnidia: 250–500 µm diam.; c.: 12–15 × 11–14 µm. — On *Triticum vulgare* (Poaceae); Italy (Sardinia). — Teleomorph: unknown.

*stachydis* (Brunaud) Petr., Hedwigia 65 (1925) 254. — Basionym: *Phyllosticta stachydis* Brunaud, Acta Soc. linn. Bordeaux 44 (1890) 273–311 [extr.: 35].

Conidia: 4–6 × 2 µm. — On *Stachys sylvatica* (Lamiaceae); France. — With *Septoria stachydis* Roberge & Desm. as synanamorph (according to Petrak, l.c.). — Teleomorph: unknown.

*staphyleicola* (Oudem.) Petr., Annls. mycol. 23 (1925) 114. — Basionym: *Phyllosticta staphyleicola* Oudem., Beih. bot. Zbl. Bot. 11 (1902) [extr. 13].

Pycnidia: 45–70 µm diam.; c.: 4–5 × 1.5–2 µm. — On *Staphylea pinnata* (Staphyleaceae); the Netherlands. — Teleomorph: unknown.

*stemmatea* (Fr.) Petr., Annls. mycol. 22 (1924) 40. — Basionym: *Sphaeria (Depazea) stemmatea* Fr.: Fr., Syst. mycol. 2 (1823) 528.

Conidia: 6–10 × 1–1.5 µm. — On *Vaccinium vitis-idaea* (Ericaceae); Sweden, Germany, Italy, Russia. — Teleomorph: *Mycosphaerella stemmatea* (Fr.: Fr.) Petr. (fide Petrak, l.c.).

*striolata* (Sacc.) H. Ruppr., Sydowia 13 (1959) 14. — Basionym: *Phyllosticta striolata* Sacc., Nuovo G. bot. ital. 22 (1915) 45.

Pycnidia: 50–60 µm diam.; o.: 25–30 µm diam.; c.: 2.5–3 × 1 µm. — On *Brachypodium distachyon* (Poaceae); Italy. — Teleomorph: unknown.

*thalictrina* Petr., Hedwigia 74 (1934) 56.

Pycnidia: 40–70 µm diam.; o.: 15–20 µm diam.; c.: 3–4(–5) × 0.5–0.8 µm. — On *Thalictrum minus* (Ranunculaceae); Russia. — Teleomorph: unknown.

*thlaspeos* Murashk. in Murashk. & Ziling, Mater. Pilzfl. Altaj & Sajany, (1929) 20.

On *Thlaspi cochleariforme* (Brassicaceae); Russia. — Teleomorph: unknown.

*thlaspeos* Moesz & Smarods, Bot. Közl. 35 (1–2) (1938) 52 (homonym).

Pycnidia: 100–190 µm diam.; o.: 25 µm diam.; c.: 3.5–5 × 1.5 µm. — On *Thlaspi arvense* (Brassicaceae); Latvia. — Teleomorph: unknown.

*tiliae* (F. Rudolphi) Butin & Kehr, Mycol. Res. 99 (10) (1995) 1193. — Basionym: *Asteroma tiliiae* F. Rudolphi, Linnaea 4 (1829) 509.

Pycnidia: 60–120 µm diam.; o.: 10–15 µm diam.; c.: 4–5 × 1.5–2 µm. — On *Tilia platyphyllos* (Tiliaceae); Austria. — Teleomorph: *Didymosphaeria petrakiana* Sacc. (fide Butin & Kehr, l.c.).

*tiliicola* (Oudem.) Arx, Verh. K. Ned. Akad. Wet., Afd. Natuurk. 51 (3) (1957) 149. — Basionym: *Phyllosticta tiliicola* Oudem., Ned. kruidk. Archf, Sér. 3, 2 (1902) 747.

Pycnidia: 100 µm diam.; c.: 2 × 0.5 µm. — On *Tilia ulmifolia* (Tiliaceae); the Netherlands. — With *Cercospora microsora* Sacc. as synanamorph. — Teleomorph: *Mycosphaerella millegrana* (Cooke) Schröt. (fide von Arx, l.c.).

***tragii*** (Bubák) Petr., Sydowia 15 (1961) 215. — Basionym: *Phyllosticta tragii* Bubák, Annln naturh. Mus. Wien 28 (1914) 205.

Pycnidia: 150–180 µm diam.; c.: 3–4 × 1.5–2 µm. — On *Pimpinella tragii* (Apiaceae); Turkey. — Teleomorph: *Mycosphaerella* sp. (fide Petrak, l.c.).

***trautmannia*** (Moesz) Moesz, Bot. Közl. 39 (1942) 314. — Basionym: *Phyllosticta traутmanniana* Moesz, Bot. Közl. 22 (1924) 43.

Pycnidia: 100–180 µm diam.; c.: 4.5–7.5 × 1–1.5 µm. — On *Sorbus torminalis* (Rosaceae); Hungary. — Teleomorph: unknown.

***trollii*** (Trail) H. Ruppr., Sydowia 13 (1959) 14. — Basionym: *Phyllosticta trollii* Trail, Scott. Nat. n.s. 4 (1889) 70.

Pycnidia: 120–130 µm diam.; c.: 4 × 1 µm. — On *Trollius europaeus* (Ranunculaceae); Great Britain (Scotland). — Teleomorph: unknown.

***urgineae*** Bremer in Bremer & Petr., Sydowia 2 (1948) 311.

Pycnidia: 50–80 µm diam.; c.: 2.5–5 × 0.7–1 µm. — On *Urginea maritima* (Liliaceae); Turkey. — Teleomorph: unknown.

***vandae*** (Namysl.) H. Ruppr., Sydowia 13 (1959) 14. — Basionym: *Phyllosticta vandae* Namysl., Kosmos 33 (1908) 329.

Pycnidia: 60–80 µm diam.; c.: 3–4 µm. — On *Dipsacus sylvestris* (Dipsacaceae); Poland, France. — Teleomorph: unknown.

***velata*** Petr., Sydowia 1 (1947) 132.

Pycnidia: 70–150 µm diam.; o.: 8–12 µm diam.; c.: 2–4.5 × 1–1.5 µm. — On *Acer platanoides* (Aceraceae) with *Rhytisma acerinum* (Pers.) Fr. (anamorph *Melasmia acerina* Lév.); Austria. — Teleomorph: unknown.

***vestita*** Petr., Sydowia 16 (1962) 183 (*nom. nud.*). — fide Petrak (l.c.) this species should have been described in Annls mycol. 42 (1944) 112, but was never published.

On *Acer pseudoplatanus* (Aceraceae); Austria. — Teleomorph: unknown.

***vogelii*** (Henkel) Petr., Annls mycol. 22 (1924) 135. — Basionym: *Stictochorella vogelii* Henkel, Annls mycol. 21 (1923) 144.

Pycnidia: 70–90 µm diam.; c.: 5–6 × 1–1.5 µm. — On *Rhamnus cathartica* (Rhamnaceae); Germany. — With *Cercospora rhamni* Fuckel as synanamorph. — Teleomorph: *Mycosphaerella vogeli* (Syd.) Tomilin (fide Petrak, Sydowia 16 (1962) 196).

***vulgaris*** Thüm., Mycoth. univ. 1892 & 2092, 1878 (Sacc., Syll. Fung. 10 (1892) 211).

Conidia: 3.5–4 × 1 µm. — On *Crataegus oxyacanthoides* (Rosaceae), *Gleditsia triacanthos* (Fabaceae); Italy. — Teleomorph: unknown.

## HOST INDEX OF ASTEROMELLA SPECIES

<b>Acacia</b>	<b>Bursera</b>	<b>Convallaria</b>
<i>acaciae</i>	<i>burserae</i>	<i>convallariae</i>
<b>Acer</b>	<b>Butea</b>	<b>Coriaceous leaves</b>
<i>platanoidis</i>	<i>butea</i>	<i>myriadea</i>
<i>ovata</i>		
<i>velata</i>	<b>Carduus</b>	<b>Coriaria</b>
<i>vestita</i>	<i>personata</i>	<i>coriariae</i>
<i>vulgaris</i>		
<b>Acorus</b>	<b>Carex</b>	<b>Corylus</b>
<i>acorella</i>	<i>silvarum</i>	<i>gorholti</i>
<b>Aegopodium</b>		
<i>chaerophylli</i>	<b>Carlina</b>	<b>Corypha</b>
	<i>carlinae</i>	<i>coryphae</i>
<b>Aesculus</b>	<b>Castanea</b>	<b>Crataegus</b>
<i>aesculicarpa</i>	<i>maculiformis</i>	<i>vulgaris</i>
<i>aesculicola</i>		
<b>Agropyron</b>	<b>Castanopsis</b>	<b>Cynanchum</b>
<i>agropyri</i>	<i>castanicola</i>	<i>cynanchicola</i>
<b>Alyssum</b>	<b>Cedrela</b>	<b>Cytisus</b>
<i>artemisiae</i>	<i>cedrelae</i>	<i>nogalesii</i>
<b>Angelica</b>	<b>Chaerophyllum</b>	<b>Delphinium</b>
<i>angelicae</i>	<i>chaerophylli</i>	<i>delphinii</i>
<i>chaerophylli</i>	<i>longissima</i>	
<b>Annona</b>	<b>Chenopodium</b>	<b>Dentaria</b>
<i>petasitidis</i>	<i>confusa</i>	<i>dentariae</i>
	<i>longissima</i>	
<b>Anthemis</b>	<b>Chrysanthemum</b>	<b>Desmodium</b>
<i>antemidis</i>	<i>bellunensis</i>	<i>microstictia</i>
<b>Artemesia</b>	<b>Citrus</b>	<b>Dictamnus</b>
<i>artemisiae</i>	<i>morgan-jonesii</i>	<i>dictamni</i>
<b>Asphodelus</b>	<b>Claytonia</b>	<b>Digitalis</b>
<i>kuemmerlei</i>	<i>claytoniae</i>	<i>digitalis-ambiguae</i>
<b>Aster</b>	<b>Clematis</b>	<b>Dipsacus</b>
<i>asteris</i>	<i>artemisiae</i>	<i>vandae</i>
<b>Astragalus</b>	<b>Coccothrinax</b>	<b>Dombeya</b>
<i>astragalicola</i>	<i>coccothrinacis</i>	<i>dombeyae</i>
<i>picbaueri</i>		
<b>Ballota</b>	<b>Cocos</b>	<b>Doronicum</b>
<i>fibrillosa</i>	<i>cocoes</i>	<i>austriaca</i>
	<i>cocogena</i>	<i>doronicigena</i>
<b>Brachypodium</b>	<b>Colchicum</b>	<b>Drymaria</b>
<i>striolata</i>	<i>aterrima</i>	<i>drymariae</i>
	<i>latemarensis</i>	
<b>Brassica</b>	<b>Compositae (= Asteraceae)</b>	<b>Epilobium</b>
<i>brassicae.</i>	<i>compositarum</i>	<i>artemisiae</i>
<i>brassicina</i>		<i>ludwigii</i>
		<b>Eupatorium</b>
		<i>eupatoriocola</i>

<b>Fagus</b>	<b>Isopyrum</b>	<b>Orthotrichum</b>
<i>maculiformis</i>	<i>isopyri</i>	<i>muscorum</i>
<b>Ferula</b>	<b>Jasminum</b>	<b>Ouratea</b>
<i>ferulina</i>	<i>jasminicola</i>	<i>ourateae</i>
<b>Ficus</b>	<b>Kalmia</b>	<b>Oxytropis</b>
<i>fici</i>	<i>kalmicola</i>	<i>oxytropidis</i>
<b>Fraxinus</b>	<b>Lactuca</b>	<b>Paeonia</b>
<i>fraxini</i>	<i>cretica</i>	<i>baldensis</i>
<i>maculiformis</i>		
<i>osteospora</i>	<b>Lagotis</b>	<b>Paliurus</b>
	<i>lagotidis</i>	<i>paliuri</i>
<b>Galium</b>	<b>Lantana</b>	<b>Pedicularis</b>
<i>galii</i>	<i>lantanae</i>	<i>pedicularidis</i>
<i>galii-schiltesii</i>		
<b>Gentiana</b>	<b>Lathyrus</b>	<b>Persea</b>
<i>andrewsii</i>	<i>lathyri-silvestris</i>	<i>gratissima</i>
<i>gentianellae</i>		
<b>Geranium</b>	<b>Leguminosae (= Fabaceae)</b>	<b>Petasites</b>
<i>pivensis</i>	<i>heringeri</i>	<i>petasitidis</i>
<b>Gleditschia</b>	<b>Lonicera</b>	<b>Phalaris</b>
<i>vulgaris</i>	<i>alpigena</i>	<i>phalaridis</i>
<b>Guettarda</b>	<b>Lupinus</b>	<b>Phyteuma</b>
<i>atronitens</i>	<i>lupini</i>	<i>phytumatis</i>
<b>Gymnosporia</b>	<b>Luzula</b>	<b>Pimpinella</b>
<i>gymnosporiae</i>	<i>luzulae-nemorosae</i>	<i>tragii</i>
	<i>luzulina</i>	
<b>Hedera</b>	<b>Malus</b>	<b>Pistacia</b>
<i>hederaceae</i>	<i>mali</i>	<i>pistaciarum</i>
<i>hederae</i>	<i>pomi</i>	
<b>Helleborus</b>	<b>Menispermum</b>	<b>Plants (not determined)</b>
<i>helleboricola</i>	<i>ovata</i>	<i>perpusilla</i>
<b>Heracleum</b>	<b>Mentha</b>	<b>Pleurostpermum</b>
<i>chaerophylli</i>	<i>fibrillosa</i>	<i>pleurospermi</i>
<b>Herbaceous plants</b>	<b>Mespilus</b>	<b>Podocarpus</b>
<i>gaboonensis</i>	<i>mespili</i>	<i>podocarpi</i>
<b>Heuchera</b>	<b>Metopium</b>	<b>Polygala</b>
<i>heucheræ</i>	<i>metopii</i>	<i>chamaebuxi</i>
<b>Hieracium</b>	<b>Molinia</b>	<b>Polygonum</b>
<i>corcontica</i>	<i>moliniae</i>	<i>avuculariae</i>
<b>Homalanthus</b>	<b>Monardella</b>	<b>Populus</b>
<i>homalanthi</i>	<i>monardellae</i>	<i>angustifoliorum</i>
		<i>bacteriformis</i>
		<i>osteospora</i>
<b>Hypochaeris</b>	<b>Morus</b>	
<i>poeverlenii</i>	<i>bacillaris</i>	<b>Prangos</b>
	<i>osteospora</i>	<i>ambiens</i>
<b>Inula</b>	<b>Musa</b>	<b>Prunus</b>
<i>inulæ</i>	<i>paradisiaca</i>	<i>cerasicola</i>

<b>Pulmonaria</b> <i>pulmonariae</i>	<b>Scopolia</b> <i>carpatica</i>	<b>Thalictrum</b> <i>thlaspeos</i>
<b>Pyrus</b> <i>pyricola</i>	<b>Scorzonera</b> <i>scorzonerae</i>	<b>Tilia</b> <i>bacterioides</i>
<b>Quercus</b> <i>castanicola</i> <i>hranicensis</i> <i>quercifolia</i>	<b>Scrophularia</b> <i>fibrillosa</i> <i>prodicta</i> <i>scrophularina</i>	<i>ovata</i> <i>praetervisa</i> <i>tiliae</i> <i>tilicola</i>
<b>Reseda</b> <i>resedae</i>	<b>Sedum</b> <i>rhodiola</i>	<b>Trema</b> <i>epitrema</i>
<b>Rhamnus</b> <i>osteospora</i> <i>vogelii</i>	<b>Semele</b> <i>semelicola</i>	<b>Triticum</b> <i>sphaerospora</i>
<b>Rhipsalis</b> <i>rhipsalidicola</i>	<b>Serratula</b> <i>gregraziella</i>	<b>Trollius</b> <i>trollii</i>
<b>Rhododendron</b> <i>saccardoi</i>	<b>Solanum</b> <i>solani</i>	<b>Urginea</b> <i>urgineae</i>
<b>Rosa</b> <i>rosicola</i>	<b>Sorbus</b> <i>hybridae</i> <i>trautmanniana</i>	<b>Ulmus</b> <i>bellunensis</i>
<b>Sagina</b> <i>saginæ</i>	<b>Stachys</b> <i>fibrillosa</i> <i>stachydis</i>	<b>Umbelliferae</b> <i>aegopodii</i>
<b>Sambucus</b> <i>ebuli</i>	<b>Staphylea</b> <i>staphyleicola</i>	<b>Unknown plants</b> <i>innumeræ</i>
<b>Saponaria</b> <i>saponariae</i>	<b>Sterculia</b> <i>clemensae</i>	<b>Vaccinium</b> <i>stemmatae</i>
<b>Scaevola</b> <i>scaevolae</i>	<b>Tetrapladon</b> <i>muscorum</i>	<b>Veratrum</b> <i>melanoplaca</i>
<b>Schultzia</b> <i>schulziae</i>		<b>Viburnum</b> <i>adeana</i>

#### ACKNOWLEDGEMENTS

The authors wish to thank A. van Iperen for the preparation of the manuscript. Dr. D. van der Mei, Dr. J. van Brummelen and Dr. W. Gams are thanked for critical reading of the manuscript.

#### REFERENCES

- Allescher, A. 1901. Rabenhorst's Kryptogamen-Flora. Pilze. 6, Abt. Fungi imperfecti: 413–415.  
 Arx, J. A. von. 1949. Beiträge zur Kenntnis der Gattung Mycosphaerella. Sydowia 3: 28–100.  
 Arx, J. A. von. 1981. The genera of fungi sporulating in pure culture. J. Cramer, Vaduz.  
 Arx, J. A. von. 1983. Mycosphaerella and its anamorphs. Proc. K. Ned. Akad. Wet., Ser. C, 86 (1): 15–54.  
 Barr, M. E. 1972. Preliminary studies on the Dothideales in temperate North America. Contr. Univ. Mich. Herb. 9 (8): 523–638.  
 Batista, A.C. & G.E.P. Peres. 1961. Asteromella. Reexame de algun taxa. Mems Soc. broteriana 14: 5–28.

- Batista, A.C., G.E.P. Peres & H.S. Maia. 1960. Revisão de algun fungos do género *Asteromella*. 1. Saccardoa 1: 17–24.
- Brown, P. & G.B. Stratton (eds.) 1963–1965. World List of Scientific Periodicals, 4th ed., Vols. 1–3. Butterworths, London.
- Brummitt, R.K. & C.E. Powell (eds.). 1992. Authors of Plant Names. Royal Botanical Gardens, Kew.
- Cash, E.K. & A. Trotter (eds.). 1972. *Sylloge Fungorum omnium hucusque cognitorum*. Vol. XXVI, Supplementum universale pars XI. Johnson Reprint Corp., New York.
- Corlett, M. 1991. An annotated list of the published names in *Mycosphaerella* and *Sphaerella*. J. Cramer, Berlin-Stuttgart.
- Farr, D.L., G.F. Bills, G.P. Chamuris & A.Y. Rossman. 1989. Fungi on plants and plant products in the United States. Am. Phytopath. Soc. Press, St. Paul, Minnesota, USA.
- Hawksworth, D.L., P.M. Kirk, B.C. Sutton & D.N. Pegler. 1995. Ainsworth & Bisby's Dictionary of the fungi, 8th ed. International Mycological Institute, Egham, Surrey, England.
- Higgins, B.B. 1920. Morphology and life history of some ascomycetes with special reference to the presence and function of spermatia. Am. J. Bot. 7: 435–444.
- Higgins, B.B. 1929. Morphology and life history of some ascomycetes. 2. Am. J. Bot. 16: 287–296.
- Higgins, B.B. 1936. Morphology and life history of some ascomycetes. 3. Am. J. Bot. 23: 598–602.
- Klebahn, H. 1918. Haupt- und Nebenfruchtformen der Askomyzeten. Gebr. Borntraeger, Leipzig.
- Rupprecht, H. von. 1957. Beiträge zur Kenntnis der Fungi imperfecti. 1. Sydowia 11: 121–129.
- Rupprecht, H. von. 1959. Beiträge zur Kenntnis der Fungi imperfecti. 3. Sydowia 13: 10–22.
- Saccardo, P.A. 1882–1931. *Sylloge Fungorum*. Vols. 1–25. Patavii.
- Samuels, G.J. 1981. An annotated index to the mycological writings of Franz Petrak. Bull. N.Z. Dept. Sci. Indust. Res. 230, Vol. 1: 135–148.
- Sivanesan, A. 1984. The bitunicate Ascomycetes and their anamorphs. J. Cramer, Vaduz.
- Sutton, B.C. 1980. The Coelomycetes. Commonwealth Mycological Institute, Kew, Surrey, England.
- Tomilin, B.A. 1979. Opredelitel' gribov roda *Mycosphaerella* Johans. Nauka, Leningrad.