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A Nomenclator of *Leptosphaeria*
V. Cesati & G. de Notaris
(Mycota-Ascomycotina-Loculoascomycetes)



J.L. Crane and C.A. Shearer

Illinois Natural History Survey Bulletin
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Introduction and Historical Background

This nomenclator of *Leptosphaeria* is an index to names published in the genus through 1989 and includes the source of publication, nomenclatural history, substrate and/or host, and geographical location for each species name. Orthographic errors of specific epithets were corrected, with the original spelling given in brackets. Full names and initials of authorities are given. Standardized, complete names of periodicals are cited following the system of Brown and Stratton (1963), Porter and Koster (1970), Koster and Gascoigne (1971), and Smits (1968). The titles of books and pamphlets are cited according to Stafleu and Cowan (1976–1988). Obligate synonymy is indicated by the symbol \equiv . Articles of the International Code of Botanical Nomenclature cited in this work follow Greuter et al. (1988). Several authors have described new species in *Leptosphaeria* as trinomials in which the subgenus or group to which the new species belongs is indicated as a middle name in parentheses; an example is *Leptosphaeria (Clypeosphaeria) hendersoniae*. Such trinomials are alphabetized by specific epithet; however, the group name precedes the epithet.

The scientific names of host plants are given as reported in the protologue of each *Leptosphaeria* species, with the currently accepted name in parentheses. Several host epithets reported in the original descriptions were never published or could not be verified. These are changed to "sp." Plant host families and genera were verified in Willis (1973), Farr et al. (1979), and Cronquist (1981). Specific epithets of vascular plants were confirmed in Halliday and Beadle (1983), Kartesz and Kartesz (1980), the Gray Herbarium Card Index (1894–present), and Index Kewensis (1895–present). Names of pteridophytes were substantiated in Christensen (1905–1906), and names of mosses, in Wijk et al. (1959–1960). Lichenized fungi names follow Zahlbruckner (1921–1940) and Lamb (1963), and fungal host names were verified in Saccardo (1882–1931)

and the Index of Fungi (1920–1987). For convenience, *Leptosphaeria* species reported from Algae, Fungi, Lichenes, and Musci are listed under these headings and their respective hosts in the host index. When available, specific substrate information, such as leaf, stem, water, etc., is given.

The geographical location of species is usually described by country and is based on information in the protologue and new combinations. Geographical names were verified in Seltzer (1952).

Cesati and de Notaris (1863) established the genus *Leptosphaeria* and included 26 species; among these was *Leptosphaeria hirta* (G.L. Rabenhorst) V. Cesati & G. de Notaris, the type species of an earlier genus, *Nodulosphaeria* G.L. Rabenhorst, 1858. *Leptosphaeria* was conserved against *Nodulosphaeria* with *Leptosphaeria doliolum* (C.H. Persoon; E.M. Fries) V. Cesati & G. de Notaris as the type species (Greuter et al. 1988). The original description of *Leptosphaeria* was superficial by modern taxonomic standards, and the genus was delimited largely by ascospore characteristics. The ascospore characteristics selected (oblong or fusoid, two- to many-celled, hyaline, becoming yellowish or dark brown) and the poor characterization of other structural features resulted in the inclusion of a wide range of Ascomycetes in this genus. *Leptosphaeria* now comprises approximately 1,689 taxa. These taxa represent, according to present-day concepts of ascomycete classification, a melange of Euascomycetes and Loculoascomycetes.

Few mycologists have attempted to deal with the systematics of *Leptosphaeria*. Saccardo (1878, 1883, 1891, 1895, 1899, 1913, 1928) recognized 800 species, which he grouped primarily according to host (parasites of dicotyledons, monocotyledons, and cryptogams) and habit (species on stems and/or branches and leaves). Species were further subdivided, based on the external features of

the pseudothecium (glabrous, hairy, setose) and ascospore septation. Saccardo's concept of *Leptosphaeria* was broad, and his emended description specified the presence of pseudoparaphyses (as paraphyses).

Höhnel (1907a) was the first to use information on centrum structure for the classification of *Leptosphaeria*-like fungi. He established the family Pseudosphaeriaceae for species in which the asci grow up into a cellular tissue that occupies the inner space of the fruiting body. As the asci develop, the cellular tissue becomes compressed and at fruiting-body maturity simulates paraphyses similar to those found in the Sordariales (Pyrenomyces). In the Sordariales, however, the paraphyses originate prior to the asci, and the asci grow up among them. Höhnel included four genera in the Pseudosphaeriaceae [*Pseudosphaeria* F. v. Höhnel, *Pyrenophora* F. v. Höhnel, *Scleroplea* (P.A. Saccardo) C.A. Oudemans, and *Wettsteinina* F. v. Höhnel]. Later, Höhnel (1918a, 1918b) divided *Leptosphaeria* into three genera based on centrum structure (*Leptosphaeria*, *Scleroplella* F. v. Höhnel, and *Nodulosphaeria* G.L. Rabenhorst) (Appendix 1). Petrak (1923) subsequently provided evidence that *Leptosphaeria* is related to *Wettsteinina* and belongs in the Pseudosphaeriaceae.

Wehmeyer (1942) reported the occurrence of 13 species of *Leptosphaeria* from North America and described two new species. He noted, "Many of the species show minor differences of spore structure, often correlated with the host. In the descriptive literature, these details are not always given. Large numbers of species have been described, largely on host distinction, on the one hand, whereas many host varieties have been obscured by inclusion in one of the ubiquitous species on the other hand. As a result it is difficult to be sure of species determinations without a comparative study of the entire genus." This statement remains valid today. Wehmeyer (1946) also redescribed seven species of *Leptosphaeria* and discussed evolutionary trends within the genus. He noted that 382 species have the 3-septate type of ascospore and believed that the 3-septate, dark brown spore type is the primitive state. According to Wehmeyer, the spores of more recently evolved species are lighter in color,

longer, narrower, and more septate. These trends lead directly, without a break, to *Ophiobolus* H. Riess.

Müller (1950), circumscribing *Leptosphaeria* broadly, considered 114 species occurring in Switzerland. Within his broad generic concept, Müller divided *Leptosphaeria* into four sections (Appendix 1). These sections were circumscribed based on pseudothecial and centrum structure and ascospore morphology. Three of his sections correspond, in part, to the three groups of Höhnel (Appendix 1).

Munk (1957) accepted Müller's sections with certain reservations and divided *Leptosphaeria* into four somewhat different sections (Appendix 1). Sections I (*Eu-Leptosphaeria*), III (*Scleroplella*), and IV (*Nodulosphaeria*)—which correspond to Müller's Sections II. I. and IV, respectively—were more restricted than those of Müller. The remaining species of *Leptosphaeria* were treated in Section II (*Para-Leptosphaeria*).

Holm (1957), in a treatment of 62 Swedish species of *Leptosphaeria*, rejected Müller's broad concept of *Leptosphaeria* and limited the genus to those species most closely related to *Leptosphaeria dotiolum*, the type of the genus (Appendix 1). Excluded species were distributed primarily in *Nodulosphaeria* H. Riess, *Phaeosphaeria* I. Miyake, and *Entodesmium* H. Riess. Holm placed much emphasis on substrata and relation of the pseudothecium to the substratum. Holm's disbursement of *Leptosphaeria* species was rejected by both Dennis (1978) and Sivanesan (1984) but was accepted by Hedjaroude (1969), v. Arx and Müller (1975), Eriksson (1967), and Shoemaker (1984).

In the past 50 years, there have been a large number of intergeneric transfers of *Leptosphaeria* species. Many of these transfers have come about by the partitioning of species groups into new (*Paraphaeosphaeria* O. Eriksson) or existing (*Entodesmium* H. Riess and *Phaeosphaeria* I. Miyake) genera. Other species have been transferred to genera very similar to and integrating with *Leptosphaeria* (*Lidophia* J.C. Walker & B.C. Sutton, *Massaria* G. de Notaris, *Massarina* P.A. Saccardo, *Melanomma* T.R.J. Nitschke ex L. Fuckel, *Ophiobolus* H. Riess, and *Wettsteinina* F. v. Höhnel). Descriptions of related genera and a synopsis of their relationships to *Leptosphaeria*

are summarized in Appendix 2. Genera synonymous with *Leptosphaeria* are listed in Appendix 3.

In recent years, *Leptosphaeria* has been included in two orders in the Bitunicatae or Loculoascomycetes. Luttrell (1973) placed *Leptosphaeria* in the Pleosporales under the Pleosporaceae. Von Arx and Müller (1975) retained *Leptosphaeria* in the Pleosporaceae under the Dothideales. Hawksworth et al. (1983) placed *Leptosphaeria* in the Dothideales in either the Phaeosphaeriaceae or the Pleosporaceae. Eriksson and Hawksworth (1986) classified the genus in Dothideales under Phaeosphaeriaceae. Most recently, Barr (1987a) has placed *Leptosphaeria* in the

Leptosphaeriaceae of the Pleosporales in the Loculoascomycetes.

One of the most intriguing aspects of *Leptosphaeria* is the diversity of anamorphic states attributed to this genus. Anamorphs of *Leptosphaeria* have been demonstrated for 70 species, and most of these associated anamorphs are Coelomycetes (Appendix 4). The largest numbers of *Leptosphaeria* associations are with *Phoma* P.A. Saccardo and *Stagonospora* (P.A. Saccardo) P.A. Saccardo.

It is intended that this nomenclator will be the base for a reappraisal of *Leptosphaeria* using modern concepts and techniques applicable to Loculoascomycetes.

List of *Leptosphaeria* Species, Varieties, and Forms

- abbreviata* (M.C. Cooke) P.A. Saccardo, Sylloge Fungorum Omnium Hucusque Cognitorum Digessit P.A. Saccardo 2:26. 1883. ≡ *Sphaeria abbreviata* M.C. Cooke, Handbook of British Fungi, p. 893. 1871. On dead stems of *Rubus* sp., Rosaceae. Great Britain.
- abuensis* K.S. Panwar & S.J. Kaur, Kavaka, Madras 3:67–68. 1975. On dead wood of unknown host, unknown family. India.
- abutilonis* M. Chochrjakov in V. Tranzschel, L. Gutner, and M. Chochrjakov, Trudy Instituta Novogo Lubyanogo Syr'ya, Moskva 4:133. 1933. On leaves of *Abutilon avicennae* Gaertner, Malvaceae. U.S.S.R.
- abutilonis* L.E. Wehmeyer & S. Ahmad, Biologia. Biological Society of Pakistan, Lahore 10:12. 1964. Nom. illegit. Art. 64.1. On unknown substrate of *Abutilon indicum* (L.) Sweet, Malvaceae. Pakistan.
- acanthi* N.T. Patouillard, Revue Mycologique, Toulouse 8:181. 1886. On dead stems of *Adhatoda* sp., Acanthaceae. China.
- aceris* N.N. Woronichin, Vestnik Tiflisskogo Botanicheskogo Sada, Tiflis (Moniteur du Jardin Botanique de Tiflis) 35:5. 1914. On living leaves of *Acer lactum* C.A. Mey., Aceraceae. U.S.S.R. (Caucasus).
- acheniarum* K. Starbäck [see *Leptosphaeria agnita* var. *acheniarum* K. Starbäck].
- achilleae* (B. Auerswald) V. Cesati & G. de Notaris, Commentario della Società Crittogamologica Italiana, Milan 1:236. 1863. ≡ *Sphaeria achilleae* B. Auerswald in G.L. Rabenhorst, Klotzschii Herbarium Vivum Mycologicum Sistens Fungorum Per Totam Germaniam Crescentium Collectionem Perfectam, Dresden, Edition 1, Century 15, No. 1448. Anno 1850. On stems of *Achillea millefolium* auct., Compositae. Germany.
- acicola* (L. Fuckel) P.A. Saccardo, Sylloge Fungorum Omnium Hucusque Cognitorum Digessit P.A. Saccardo 2:55. 1883. ≡ *Pleospora? acicola* L. Fuckel, Symbolae Mycologicae, Erster Nachtrag, p. 301. 1871. On fallen needles of *Pinus sylvestris* L., Pinaceae. Germany.
- aconiti* P.A. Saccardo, Nuovo Giornale Botanico Italiano e Bollettino della Società Botanica Italiana, Firenze 7:315. 1875. On dry stems of *Aconitum napellus* L., Ranunculaceae. Italy.
- (*Metasphaeria*) *acorella* M.C. Cooke, Grevillea, London 13:99. 1885. ≡ *Metasphaeria acorella* (M.C. Cooke) A.N. Berlese & P. Voglino, Sylloge Fungorum Omnium Hucusque Cognitorum Digessit P.A. Saccardo Additamenta Ad Volumina I–IV, p. 158. 1886. On leaves of *Acorus calamus* L., Araceae. Great Britain.
- acori* P.A. Karsten, Hedwigia, Dresden 22:179. 1883. [Ad interim.] Nom. inval. Art. 34.1. On decaying leaves of *Acorus calamus* L., Araceae. Finland.
- aculeorum* G. Passerini, Atti della R. Accademia dei Lincei Memoriae, Rome, Series 4, 6:458–459. (1889) 1890. On stems of *Rosa canina* L., Rosaceae. Italy.
- acuta* H. Rehm, Ascomyceten, Fascicle 16, No. 783. Anno 1884. Nom. illegit. Art. 64.1. ≡ *Leptosphaeria acutiuscula* A.N. Berlese.
- acuta* (G.F. Hoffmann:E.M. Fries) P.A. Karsten, Mycologia Fennica Pars 2, Pyrenomycetes, p. 98. 1873. ≡ *Sphaeria acuta* G.F. Hoffmann:E.M. Fries, Vegetabilia Cryptogama, Fascicle 1, p. 22. 1787; E.M. Fries, Systema Mycologicum Sistens Fungorum 2:507. 1823. ≡ *Pleospora acuta* (G.F. Hoffmann:E.M. Fries) L. Fuckel, Symbolae Mycologicae, p. 135. 1870. ≡ *Ampullina acuta* (G.F. Hoffmann:E.M. Fries) L. Quélet, Mémoires de la Société d'Émulation de Montbéliard. Series 2, No. 5, pp. 523–524. 1875; Les Champignons du Jura et des Vosges 3:95. 1875. On fallen stems of *Urtica dioica* L., Urticaceae. Austria, Belgium, Finland, France, Germany, Great Britain, Italy, U.S.A.
- acuta* (G.F. Hoffmann:E.M. Fries) P.A. Karsten forma *insignis* F. Fautrey in C. Roumeguère, Fungi Selecti Gallici Exsiccati, Century 72, No. 7137. Anno 1897; Revue Mycologique, Toulouse 19:149. 1897. On dry, decorticated stems of *Urtica dioica* L., Urticaceae. France.
- acuta* (G.F. Hoffmann:E.M. Fries) P.A. Karsten forma *urticae* F. Fautrey in C. Roumeguère, Revue Mycologique, Toulouse 16:7. 1894;

- Fungi Selecti Gallici Exsiccati, Century 65, No. 6434. Anno 1894. On diseased stalks of *Urtica dioica* L., Urticaceae. France.
- acutispora* S. Tóth, Omagiu Lui Traian Săvulescu cu Prilejul Implinirii A 70 De Ani, Academia Republicii Populare Romane, Bucharest, p. 778. 1959. On dry stems of *Erysimum diffusum* Ehrh., *Erysimum erysimoides* (L.) Fritsch ex Janchen, *Sisymbrium strictissimum* L., Cruciferae. Romania.
- acutiuscula* A.N. Berlese, Icones Fungorum Omnium Hucusque Cognitorum ad usum Sylloges Saccardianae Adcommodatae 1:86. 1894. ≡ *Leptosphaeria acuta* H. Rehm. On stems of *Urtica* sp., Urticaceae. Germany.
- adesmicola* (C.L. Spegazzini) L. Holm, Svensk Botanisk Tidskrift, Stockholm 62:224–225. 1968. ≡ *Gibberidea adesmicola* C.L. Spegazzini, Anales del Museo Nacional de Historia Natural de Buenos Aires 19(Series 3, 12):385. 1909. On dead branches of *Adesmia* sp., Leguminosae. Argentina.
- advenula* (W. Nylander) P.A. Saccardo & D. Saccardo in P.A. Saccardo, Sylloge Fungorum Omnium Hucusque Cognitorum Digessit P.A. Saccardo 17:731. 1905. On thallus of *Lecidea excentrica* Roehling, Lichenes (Lecideaceae), Ireland. Italy.
- aegira* P.A. Saccardo & C.L. Spegazzini in P.A. Saccardo, Michelia Commentarium Mycologicum Fungos in Primis Italicos Illustrans 1:37. 1877. On wilting leaves of *Populus alba* L., Salicaceae. Italy.
- aeluropodis* A.I. Lobik, Materialy po Floristicheskim i Faunisticheskim Obsledovaniyam Terskogo Okrug, pp. 22–23. 1928 [as *aeluropi*]. On leaves of *Aeluropus littoralis* (Gouan.) Parl., Gramineae. U.S.S.R.
- aerea* C.L. Spegazzini, Anales de la Sociedad Científica Argentina, Buenos Aires 12:178–179. 1881. Fungi Argentini Pugillus 4, No. 166. 1881. ≡ *Sphaerulina (Leptosphaerella) aerea* (C.L. Spegazzini) M.C. Cooke, Grevillea, London 18:80. 1890. = *Pleospora pellita* (E.M. Fries) G.L. Rabenhorst var. *pellita*, fide L.E. Wehmeyer, A World Monograph of *Pleospora*, p. 47. 1961. On branches and dead leaves of *Erythrina cristagalli* L., *Tillandsia bicolor* Brongn., Leguminosae, Bromeliaceae. Argentina.
- aetnensis* G. Scalia, Prima Contribuzione alla Conoscenza delle Flora Micologica della Provincia di Catania, p. 16. 1899. On dry branches of *Smilax aspera* L., Smilacaceae. Italy.
- affinis* P.A. Karsten, Fungi Fenniae Exsiccati, Century 9, No. 896. Anno 1869. ≡ *Metasphaeria affinis* (P.A. Karsten) P.A. Saccardo, Sylloge Fungorum Omnium Hucusque Cognitorum Digessit P.A. Saccardo 2:159. 1883. On dead stems of *Rhinanthus* sp., Scrophulariaceae. Finland.
- africana* A.M. Saccas, Étude de la Flore Cryptogamique des Cafésiers en Afrique Centrale. Bulletin de l'Institut Français du Café du Cacao et d'Autres Plantes Stimulantes (Bulletin IFCC No. 16), pp. 219–221. 1981. Nom. inval. Art. 37.1. On dead branches of *Coffea robusta* L. Linden (= *Coffea canephora* Pierre ex Froehn.), Rubiaceae. South Africa.
- agaves* H. Sydow, P. Sydow, & E.J. Butler, Annales Mycologici, Berlin 9:409. 1911. On wilted leaves of *Agave rigida* Mill. var. *sisalana* (Perrine) Engelm., Agavaceae. India.
- aglaja* P.A. Saccardo, Nuovo Giornale Botanico Italiano e Bolletino della Società Botanica Italiana, Firenze 7:310. 1875. On leaves of *Oxalis stricta* L., Oxalidaceae. Italy.
- agminalis* P.A. Saccardo & P. Morthier in P.A. Saccardo, Michelia Commentarium Mycologicum Fungos in Primis Italicos Illustrans 1:498–499. 1879. ≡ *Dothideopsella agminalis* (P.A. Saccardo & P. Morthier) F. v. Höhnelt, Sitzungsberichte der Akademie der Wissenschaften in Wien, Mathematisch-naturwissenschaftliche Klasse, Abt. 1, 124(1 & 2):70. 1915. On stems of *Clematis vitalba* L., Ranunculaceae. France, Italy.
- agminalis* P.A. Saccardo & P. Morthier forma *minor* F. Fautrey in C. Roumeguère, Revue Mycologique, Toulouse 13:168. 1891; Fungi Selecti Gallici Exsiccati, Century 59, No. 5849. Anno 1891. On unknown substrate of *Clematis vitalba* L., Ranunculaceae. France.
- agnita* (J. Desmazières) V. Cesati & G. de Notaris, Commentario della Società Crittogamologica Italiana, Milan 1:236. 1863. ≡ *Sphaeria (Caulicola) agnita* J. Desmazières, Annales des Sciences Naturelles, Paris, Botanique, Series 3, 16:313. 1851. On stems of *Valeriana officinalis* L., Valerianaceae. Italy.
- agnita* (J. Desmazières) V. Cesati & G. de Notaris subsp. *labens* P.A. Saccardo & G. Scalia in P.A. Saccardo, C.H. Peck, and W. Trelease, Harriman Alaska Expedition 5:330. 1904. On dead herbaceous stems of unknown host. U.S.A.
- agnita* (J. Desmazières) V. Cesati & G. de Notaris var. *acheniarum* K. Starbäck, Arkiv för Botanik, Uppsala, Stockholm 5(7):23. 1905. [Raised to species rank; *Leptosphaeria acheniarum* K. Starbäck in reprint on same page.] On dry achenes of *Mikania* sp., Compositae. Bolivia.
- agnita* P.A. Saccardo var. *ambigua* A.N. Berlese, Atti dell' Accademia Scientifica Veneto-Trentino-Istriana, Padova, Series 1, 9:247–248. 1886; Ricerche intorno alla *Leptosphaeria agnita* (Desm.) Ces. et de Not., ed alla *L. ogilviensis* (B. et Br.) Ces. et de

- Not., pp. 4–5. 1886. On dry stems of *Eupatorium cannabinum* L., Compositae. Germany.
- agnita* (J. Desmazières) V. Cesati & G. de Notaris var. *bupleuri* P.A. Saccardo, Bulletin. Société R. de Botanique de Belgique, Bruxelles 28:91. 1889. On dead stems of *Bupleurum falcatum* L., Umbelliferae. U.S.S.R.
- agnita* P.A. Saccardo var. *chrysanthemi* A.N. Berlese, Atti dell' Accademia Scientifica Veneto-Trentino-Istria, Padova, Series 1, 9:246–247. 1886; Ricerche intorno alla *Leptosphaeria agnita* (Desm.) Ces. et de Not., ed alla *Leptosphaeria ogilviensis* (B. et Br.) Ces. et de Not., pp. 3–4. 1886. On dry stems of *Chrysanthemum corymbosum* L., Compositae. Germany.
- agnita* (J. Desmazières) V. Cesati & G. de Notaris var. *erigerontis* A.N. Berlese, Atti dell' Accademia Scientifica Veneto-Trentino-Istria, Padova, Series 1, 9:247. 1886; Ricerche intorno alla *Leptosphaeria agnita* (Desm.) Ces. et de Not., ed alla *Leptosphaeria ogilviensis* (B. et Br.) Ces. et de Not., p. 4. 1886. On dead stems of *Erigeron canadensis* L., Compositae. U.S.A.
- agnita* (J. Desmazières) V. Cesati & G. de Notaris var. *major* P.A. Saccardo & A.N. Berlese, Atti del Istituto Veneto di Scienze, Lettere ed Arti, Venezia, Series 6, 3:730. 1885. On stems of *Chaerophyllum aureum* L., Umbelliferae. Switzerland.
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- Polymnis* sp., *Senecio* sp., *Solidago* sp.,
Sonchus sp. (Compositae); *Aralia* sp.
 (Araliaceae); *Apocynum* sp., *Asclepias* sp.
 (Asclepiadaceae); *Potentilla* sp., *Rubus* sp.
 (Rosaceae); *Dasyctoma* sp., *Gerardia* sp.,
Veronica sp. (Scrophulariaceae); *Smilax* sp.
 (Smilacaceae); *Heracleum* sp., *Pastinaca* sp.
 (Umbelliferae); *Urtica* sp. (Urticaceae),
 Araliaceae, Asclepiadaceae, Compositae,
 Rosaceae, Scrophulariaceae, Smilacaceae,
 Umbelliferae, Urticaceae. Belgium, Canada,
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Alliaria officinalis Andrzej ex Bieb.
L. alliariae
Allium validum S. Wats.
L. lassenensis
Ahhus glutinosa (L.) Gaertner
L. coniothyrium
L. vagabunda
Ahhus sp.
L. leucoplaca
L. lonicerina
Aloe affinis A. Berger
L. verwoerdiana
Aloe arborescens Miller
L. aloes
Aloe striatula Haw.
L. verwoerdiana
Alopecurus borealis Trin.
L. alopecuri

- Alopecurus ovatus* Knapp
L. insignis
L. microscopica
Aloysia citriodora Ort. ex Pers.
L. octophragma
Alpinia speciosa K. Sch.
L. alpiniae
Amaranthus sp.
L. eriophora
Ambrosia trifida L.
L. drechsleri
L. fulgida
Ambrosia sp.
L. doliolum
Ammophila arenaria (L.) Link
L. ammophila
L. ammophila forma
calamagrostidis-
arenariae
L. littoralis
L. perforans
Ammophila arundinacea Host
L. sabuletorum
Ammophila sp.
L. marram
Ammothamnus lehmannii Bunge
L. ammothamni
Amorpha fruticosa L.
L. amorphae
Ampelopsis heterophylla (Thunb.)
 Sieb. & Zucc.
L. vagabunda
Anacyclus radiatus Loisel.
L. anacycli
Anaphalis sp.
L. doliolum
Anarrhinum bellidifolium (L.)
 Willd.
L. anarrhini
Andromeda tetragona L.
L. andromedae
L. hyperborea
Andromeda sp.
L. sublanosa
Andropogon glomeratus (Walt.)
 B.S.P.
L. subcompressa
Andropogon ischaemum L.
L. eustomoides
L. ischaemi
L. trimera
Andropogon muricatus Retz.
L. muricata
Andropogon saccharoides Swartz
L. puiggarii
Andropogon sp.
L. herpotrichoides
L. latebrosa
L. michottii
Androsace lactea L.
L. pachyasca
- Anemone narcissiflora* L.
L. raphidophora
Anemone sylvestris L.
L. anemones
Anemone virginiana L.
L. platypus
Angelica sylvestris L.
L. conoidea
L. conoidea forma
angelicae
Angelica sp.
L. obovata
L. setosa
Anthemis tinctoria L.
L. dolioloides
L. tanacetii
Anthericum ramosum L.
L. antherici
Anthriscus sylvestris (L.) Hoffm.
L. dolioloides var. *inops*
Antirrhinum majus L.
L. thueneniana
Antirrhinum siculum Miller
L. galiorum subsp.
antirrhini
L. insulana
Apios fortunei Maxim.
L. apios
L. apios-fortunei
Apocynum sp.
L. doliolum
Aquilegia vulgaris L.
L. aquilegiae
Arabis alpina L.
L. arabidis
L. johansonii
Aralia sp.
L. doliolum
Araucaria imbricata Pav.
L. californica
Arbutus unedo L.
L. arbuti
Arctium sp.
L. doliolum
Areca sapida Soland. ex Hook. f.
L. arecae
Arenaria ciliata L.
L. auerswaldii
Armeria vulgaris Willd.
L. staritzii
Arrhenatherum avenaceum
 Beauv.
L. arrhenatheri
Arrhenatherum elatius (L.)
 Beauv. ex J. Presl. & C. Presl.
L. arrhenatheri
Artemisia absinthium L.
L. gloeospora
Artemisia annua L.
L. sydwiana
- Artemisia austriaca* Jacq.
L. compressa
Artemisia californica Less.
L. tumefaciens
Artemisia campestris L.
L. artemisiae
L. caespitosa
L. compressa
L. phaeospora
L. sydwiana
L. valesiaca
Artemisia camphorata Vill.
L. camphorata
Artemisia frigida Willd.
L. tetonensis
Artemisia herba-alba Asso
L. rothomagensis var.
artemisiae
Artemisia tridentata Nutt.
L. lasioderma
Artemisia vulgaris L.
L. doliolum var. *subdisti-*
cha
L. grammodes
L. hispanica
L. kalmusii
L. purpurea
L. uncinata
Artemisia sp.
L. cervispora
L. crustacea
L. owaniae
L. tumefaciens
Aruncus dioicus Fern.
L. umbrosa
Aruncus silvestris Kostel.
L. arunci
Arundinaria sp.
L. eumorpha
Arundo donax L.
L. donacina
L. recessa
L. rhodophaea
Asclepias syriaca L.
L. dearnessii
Asclepias sp.
L. doliolum
L. russellii
Asparagus officinalis L.
L. asparagi
L. asparagina
L. passeriniana
L. portoricensis
L. praeclara
L. punctoidea
L. socialis
Asparagus sp.
L. comatella
L. indica
Asperella japonica Hack.
L. asperellae

- Asperula* sp.
L. politis
Aspicilia calcarea (L.) Korb
L. crozalsii
Aspidistra elatior Blume
L. aspidistrae
Asplenium septentrionale (L.) Hoffm.
L. asplenii
Aster multiflorus Ait.
L. astericola
Aster sagittifolius Wedem. ex Willd.
L. asteris
Aster salignus Willd.
L. conoidea forma *asteris*
Aster sp.
L. doliolum
L. heliopsidis
Astrantia major L.
L. umbrosa
Atraphaxis muschketovii Krasnov
L. atraphaxidis
Atriplex hortensis L.
L. calvescens
Atriplex verrucifera Bieb.
L. atriplicis
Atriplex sp.
L. echinella
Avena sativa L.
L. korrae
Avena sp.
L. avenae
Avicennia marina (Forsk.) Vierh. var. *resiniferae* (Forst.) Bakh.
L. australiensis
Avicennia nitida Jacq.
L. avicenniae
Axonopus compressus (Swartz) Beauv.
L. korrae
Azalea sp. (= *Rhododendron* sp.)
L. azaleae
Baccharis sp.
L. bicuspidata
Baeomyces rufus (Huds.) Rebert.
L. baeomycearia
L. neottizans
Baldingera arundinacea (L.) Dumort.
L. baldingerae
L. larseniana
Ballota acetabulosa (L.) Bentham
L. ballotae
Ballota nigra L.
L. slovacica
Bambusa sp.
L. amphilogia
L. bambusae
L. bambusicola
L. scabrispora
L. schneideriana
L. tigrisoides
L. weddellii
Baptisia sp.
L. comatella
Bardana sp.
L. bardanae
Barkhousia taraxacifolia (Thuill.) DC.
L. modesta var. *rubellula*
Berberis ilicifolia Forst.
L. berberidicola
Berberis petiolicola Wall.
L. punjabensis
Berberis vulgaris L.
L. berberidis forma *berberidis*
L. coniothyrium
Berberis sp.
L. inconspicua
Berteroa incana (L.) DC.
L. submaculans
Betula verrucosa Ehrh.
L. betulina
Betula sp.
L. betulina
L. waghorniana
Biebersteinia emodii Jaub. & Spach.
L. hollosiana
Blysmus compressus (L.) Panzer ex Link
L. petkovicensis var. *elymi*
Bocconia sp.
L. bocconiae
Bomarea caldasii (HBK) Asch. & Graebn.
L. bomareae
Borreria leucomela (L.) Mudd
L. leucomelaria
Brachypodium sylvaticum (Hudson) Beauv.
L. brachypodii
L. microscopica forma *brachypodii*
L. sylvatica
Brachypodium sp.
L. culmifraga var. *linearis*
Brassica campestris L.
L. alliariae
L. maculans
Brassica crispa Rafin.
L. salebrosa
Brassica napus L.
L. napi
Brassica oleifera Moench
L. maculans forma *denudata*
Brassica oleracea L.
L. cesatiana
Brassica rapa L.
L. nigrella
Brassica sp.
L. olericola
Braya sp.
L. norvegica
Briza media L.
L. brizae
L. media
Bromus asper Murray
L. culmifraga var. *bromicola*
Bromus inermis Leysser
L. avenaria
Broussonetia sp.
L. coniothyrium
Buddleja davidii Franch.
L. buddlejae
L. davidii
L. polini
Buphthalmum salicifolium L.
L. septemcellulata
Bupleurum falcatum L.
L. agnita var. *bupleuri*
Bupleurum petraeum L.
L. bupleuri
Bupleurum ranunculoides L.
L. ranunculoides
Buxus sempervirens L.
L. buxina
L. melanommoides
L. revocans
Cacalia hastata L.
L. doliolum var. *cacaliae*
Cacalia sp.
L. nitschkei
Calamagrostis epigejos (L.) Roth
L. culmorum forma *epigeii*
Calamagrostis montana Host
L. fuckelii
Calamagrostis sylvatica Host
L. quinta
Calamagrostis sp.
L. coccodes
L. graminum
L. intermedia
L. sparsa
Calligonum sp.
L. calligoni
Calluna vulgaris (L.) Hull
L. ericae
Calopogonium mucunoides Desv.
L. calopogonii
Camellia japonica L.
L. camelliae-japonicae
Camellia theifera Griff.
L. depressa
L. tornatospora
Camellia sp.
L. camelliae

- Campanula zozysii* Wulfen
L. pachyasca
L. plemeliana
Camphorosma monspeliaca L.
L. serbica
Camphorosma perennis Pall.
L. camphorosmae
Canna indica L.
L. cannae
Cannabis sativa L.
L. cannabina
L. woroninii
Capparis aphylla Roth
L. ahmadii
L. capparidicola
Capparis horrida L.
L. simillima
Capparis spinosa L.
L. capparidis
Cardamine sylvatica Link
L. trollii
Carduus carlinoides Gouan
L. carlinoides
Carduus defloratus L.
L. centaureae
Carduus nutans L.
L. carduina
Carduus scopulorum Greene
L. chrysanthemi
Carduus sp.
L. carduorum
Carex acutiformis Ehrh.
L. sparsa
Carex arenaria L.
L. cariciphila
Carex baldensis L.
L. kochiana
Carex firma Host
L. caricis-firmae
Carex folliculata L.
L. folliculata
Carex glauca Scop.
L. striolata var. *caricis-glaucae*
Carex gracillima Schwein.
L. folliculata var. *oxyspora*
Carex hirta L.
L. caricis
L. occulta
Carex hyperborea Drejer
L. macrotheca
Carex leporina L.
L. culmorum var. *paleicola*
Carex paludosa Good.
L. gigaspora
L. puccinioides
L. rivalis
Carex panicea L.
L. caricina
Carex pendula Hudson
L. caricicola
L. caricis
Carex pulla Good.
L. caricinella
L. consobrina
Carex rigida Good.
L. macrotheca
Carex riparia Curtis
L. caricicola
Carex silvatica auct.
L. caricina
Carex vaginata Tausch
L. caricis
Carex vesicaria L.
L. paludosa
Carex vulpina L.
L. caricis-vulpinae
L. microscopica
L. microscopica var. *caricis-vulpinae*
Carex sp.
L. clara
L. cumana
L. epicarecta
L. hemicrypta
Carlina acaulis L.
L. anthophila
L. cynaracearum
Carlina vulgaris L.
L. doliolum
L. doliolum forma *carlinae-vulgaris*
Carpinus sp.
L. depressa
L. subsimilis
Carya sp.
L. cacuminispora
L. lejostega
L. leucoplaca
Cassia sp.
L. cassiaecolo
Cassinia aculeata R. Br.
L. plagia
Castanea sp.
L. involucralis
Castilleja miniata Dougl. ex Hook.
L. castillejae
L. concinna
Castilleja pallida (L.) Sprengel
L. castillejae
Catabrosa algida Fr.
L. algida
Ceanothus sp.
L. ceanothi
Cecropia peltata L.
L. cecropiae
Centaurea jacea L.
L. jaceae
Centaurea scabiosa L.
L. centaureae
Centranthus sp.
L. galiicola var. *brachyspora*
Cephalaria uralensis (Murray) Roemer & Schultes
L. cephalariae-uralensis
L. taurica
Cerastium biebersteinii DC.
L. biebersteinii
Cercocarpus ledifolius Nutt. ex Torr. & Gray
L. cercocarpi
Cereus peruvianus (L.) Miller
L. cerei-peruviani
Chaerophyllum aureum L.
L. agnita var. *major*
Chamaerops excelsior Boj
L. spatharum
Chamaerops humilis L.
L. algarbiensis
L. chamaeropsis
L. debeauxii
L. magnusiana
Chamaerops sp.
L. pruni forma plurivora
Cheiranthus annuus L.
L. impressa
Chelidonium majus L.
L. chelidonii
Chenopodium album L.
L. calvescens
L. chenopodii-albi
L. eutypoides
L. inculta
L. nigricans
Chenopodium anthelminticum Bert. ex Steud.
L. anthelmintica
Chenopodium sp.
L. eriophora
Chimonanthus sp.
L. coniothyrium
Chondrilla juncea L.
L. bella
L. eburna
L. mirabilis
L. trichostoma
Chondrus crispus J. Stackhouse
L. chondri
L. danica
L. marina
Chrysanthemum corymbosum L.
L. agnita var. *chrysanthemi*
Chrysanthemum leucanthemum L.
L. tanacetii
Chrysanthemum vulgare (L.) Bernh.
L. dolioloides
L. tanacetii
Chrysothamnus graveolens (Nutt.) Greene
L. arthropHYma

- Chusquea serrulata* Pilger
L. chusqueae
L. saginata
Chusquea sp.
L. consociata
L. stellata
Cicclidotus fontinaloides (Hedw.)
P. Beauv.
L. cinclidoti
Cinnamomum camphora T. Nees
ex Eberm.
L. cinnamomi
Cinnamomum zeylanicum Blume
L. almeidae
Cirsium altissimum (L.) Spreng.
L. compressa
Cirsium arvense (L.) Scop.
L. cirsii-arvensis
Cirsium lanceolatum (L.) Scop.
L. coryniispora
Cirsium muticum Michx.
L. mesoedema
Cirsium palustre (L.) Scop.
L. galiorium forma
cirsiorum
Cirsium sp.
L. dolioloides var. *cirsii*
L. doliolum
Cistus albidus L.
L. cisti
Cistus ladanifer L.
L. cistina
Cistus monspeliensis L.
L. cisticola
Citrus aurantium L.
L. bondari
L. papulosa
Citrus grandis Osb.
L. bondari
Citrus limonia Osb.
L. bondari
Citrus limonum Risso
L. vagabunda forma *citri-*
limonii
Citrus medica L.
L. bondari
Citrus sinensis Osb.
L. bondari
Citrus sp.
L. bondari
L. citricola
Cladium articulatum R. Br.
L. aliena
Cladium mariscus (L.) Pohl
L. cladii
L. crucheti
Clematis recta L.
L. aucta
Clematis vitalba L.
L. agminalis
L. agminalis forma *minor*
L. grignomensis
L. haematites
L. incruenta
L. nectrioides
L. pleosporoides
L. pyrenopezizoides
L. rimalis
L. vagabunda
L. vitalbae
L. vitalbae var. *sarmentico-*
cola
Clerodendrum foetidi Bunge
L. clerodendri
Coccothrinax argentata (Jacq.)
Bailey
L. coccothrinacis
Cocos romanzoffiana Cham.
L. cocoes
L. molleriana
Coffea arabica L.
L. coffeigena
Coffea canephora Pierre ex
Froehn.
L. canephorae
L. coffeigena var. *longiros-*
trata
Coffea excelsa Cheval.
L. centrafricana
L. excelsa
L. lobayensis
L. longispora
Coffea robusta L. Linden
L. africana
L. cylindrospora
L. gigaspora
L. macrorostra
L. oubanguiensis
L. tetraspora
Coffea sp.
L. coffaeicida
L. pusilla
L. tonduzi
Coix lacryma-jobi L. var.
susutama Honda
L. coicis
Coleosanthus reniformis (Gray)
Rydb.
L. coleosanthi
Collinsonia canadensis L.
L. collinsoniae
Collomia squarrosa Nutt.
L. collumiae
Colocasia antiquorum Schott
L. colocasiae
Conium maculatum L.
L. conii
L. coniiigena
L. rubicunda
Convallaria majalis L.
L. smarodsii
Convallaria multiflora L.
L. convallariae
Convallaria polygonatum L.
L. bellynickii
Cora pavonia (Swartz) Fries
L. corae
Corallorrhiza multiflora Nutt.
L. corallorrhizae
Cordyline dracaenoides Kunth
L. cordylines
Cornus alba L.
L. limitata
Cornus florida L.
L. olivaeispora
Cornus sanguinea L.
L. corticola
L. fiedlaeri
L. limitata
L. platycarpa
L. vagabunda
Cornus stolonifera Michx.
L. rugosa
Cornus sp.
L. mamillana
Coronilla coronata L.
L. dumetorum var.
coronillae
Coronilla emerus L.
L. riofrioi
Coronilla sp. [as *C. comata* L.]
L. coronillae
Corvus cornix [Animalia]
L. corvina
Corylus avellana L.
L. avellanae
L. vagabunda
Corylus sp.
L. leucoplaca
Cosmos sulphureus Cav.
L. cosmicola
Coumarouna punctata S.F. Blake
L. coumarounae
Cousinia multiloba DC.
L. shahvarica
Crataegus monogyna Jacq.
L. pomona forma *tran-*
sylvanica
Crataegus oxyacantha L.
L. saccardiana
Crepis sibirica L.
L. sibirica
Crepis vesicaria L. subsp.
haenseleri (Boiss. ex DC.) P.D.
Sell
L. rubellula
Crithmum maritimum L.
L. helminthospora forma
crithimi-maritimi
L. rhopalispora
Cucumis sativus L.
L. alexandrinis

- Cucurbita pepo* L.
L. cucurbitae
Cycas revoluta Thunb.
L. cycadis
L. irrepta
Cynanchum sp.
L. modesta var. *cibostii*
L. scotophila
Cynodon dactylon (L.) Pers.
L. cynodontis-dactyli
L. korrae
L. narmari
L. rhizomatum
Cynodon transvaalensis Burt-Davy
L. narmari
Cynodon sp.
L. pontiformis
Cynoglossum officinale L.
L. cynoglossi
L. vindobonensis
Cynosurus cristatus L.
L. cynosuri
Cyperus flavescens L.
L. cyperi
L. cypericola
Cyperus monti L.
L. cyperina
Cyperus papyrus L.
L. papyri
Cyperus schoenoides Griseb.
L. ceballosi
Cytisus alpinus Miller
L. corrugans
Cytisus laburnum L.
L. lucina
Dactylis glomerata L.
L. caricis
L. culmicola var. *nigrans*
L. dactylina
L. nigrans
L. recutita
Danthonia frigida Vickery
L. gaubae
Daphne gnidium L.
L. daphnes
L. vagabunda forma *daphnes*
Daphniphyllum macropodium Mig.
L. daphniphylli
Dasyliion junceum Zucc.
L. dasyliirii
Dasystroma sp.
L. doliolum
Datura stramonium L.
L. caballeroi
Daucus carota L.
L. longipedicellata
L. rastrupii
Daucus sp.
L. comatella
L. modesta forma *dauci*
Daviesia latifolia R. Br.
L. daviesiae
Desmodium sp.
L. dissiliens
L. distributa
Desmoncus sp.
L. desmonci
Deutzia scabra Thunb.
L. dichroa
Dianella revoluta R. Br.
L. williamsii
Dianthus atrorubens All.
L. leptospora
Dianthus caryophyllus L.
L. dianthi
Dianthus prolifer L.
L. proliferae?
Dianthus superbus L.
L. dianthi
Dianthus sp.
L. dianthi
Dichosciadium ranunculaceum (F. v. Mueller) Domin
L. dichosciadii
Didymella vincetoxici (de Not.) Sacc.
L. didymellae-vincetoxici
Digitalis lutea L.
L. modesta forma *digitalis-luteae*
Digitalis purpurea L.
L. valdiviensis
Digitalis sp.
L. digitalis
Dipsacus sylvestris Hudson
L. bractearum var. *bractearum*
L. carpophila
L. modesta forma *sylvestris*
Dodonaea viscosa (L.) Jacq.
L. dodonaeae
Dorycnium suffruticosum Vill.
L. cucurbitarioides
Draba alpina L.
L. drabae
Dracaena draco (L.) L.
L. convallariae
L. convallariae forma *dracaenae*
L. dracaenae
L. draconis
Dryas octopetala L.
L. dryadis
L. rostrupii
Drypis spinosa L.
L. relmiana
Dulcamara sp.
L. vagabunda
Dupontia fisheri R. Br.
L. insignis
L. vagans
L. vagans forma *scirpi*
Dupontia psilosantha (Rupr.) Griseb.
L. insignis
Echium vulgare L.
L. cesatiana
L. echiella
L. echi
Eichhornia crassipes (C.F.P. Mart.) Solms-Laub.
L. eichhorniae
Elaeis guineensis Jacq.
L. elaeidicola
L. elacidis
Eleocharis sp.
L. norfolcia
Elymus arenarius L.
L. arenaria
L. elymi
L. larseniana
L. quinta
Elymus? *barbatus* F. Kurtz.
L. lagenoides
Elymus glaucus Buckley
L. elongata
Elymus sp.
L. elymi
Elyna spicata Schrader
L. sparsa var. *elynae*
Elytrigia juncea (L.) Nevski
L. ammophilae
Empetrum nigrum L.
L. empetri
Endiusa hirsuta Alef.
L. endiusae
Ephedra distachya L.
L. ephedrae
Epichloe typhina (Pers.:Fr.) Tul.
L. associata
Epilobium angustifolium L.
L. cylindrospora
Epilobium dodonaei Vill.
L. cadubriae
Epilobium fleischeri Hochst.
L. epilobii
L. multiseptata forma *alpina*
Epilobium hirsutum L.
L. tritorulosa
Epilobium montanum L.
L. epilobii
Epilobium trigonum Schrank
L. epilobii
Equisetum arvense L.
L. arvensis
Equisetum hyemale L.
L. berleseii
L. hiemale

- Equisetum limosum* L.
L. limosa
- Equisetum variegatum* Schleicher
 ex Weber & Mohr
L. equiseti
L. equiseticola
- Equisetum* sp. [as *E. pallidum*]
L. larvalis
- Eranthemum* sp.
L. eranthemi
- Eremochloa ophiuroides* (Munro)
 Hack.
L. korrae
- Erianthus alopecuroides* (L.) Ell.
L. orthogramma
- Erica carnea* L.
L. subsecta
- Erigeron canadensis* L.
L. agnita var. *erigerontis*
L. canadensis
L. congesta
- Erigeron viscidus* Rydb.
L. erigerontis
- Erigeron* sp.
L. doliolum
L. plurisepta
- Eriobotrya japonica* (Thunb.)
 Lindley
L. eriobotryae
L. miyakeana
L. puttemansii
- Eryngium agavifolium* Griseb.
L. vinosa
- Eryngium campestre* L.
L. eryngii
L. nigrella
L. woodrow-wilsonii
- Erysimum cheiranthoides* L.
L. submaculans
- Erysimum diffusum* Ehrh.
L. acutispora
- Erysimum erysimoides* (L.)
 Fritsch ex Janchen
L. acutispora
- Erysimum hieracifolium* L.
L. fusispora forma *erysimi*
- Erythrina crista-galli* L.
L. aerea
- Erythrina* sp.
L. erythrinae
- Espeletia neriifolia* Sch. Bip. ex
 Wedd.
L. jahnii
- Espeletia* sp. (?*E. schultzii*
 Wedd.)
L. espeletiae
- Eucalyptus globulus* Labill.
L. molleriana
- Euonymus europaeus* L.
L. castagnei
L. constricta
- Euonymus* sp.
L. californica
- Eupatorium cannabinum* L.
L. agnita var. *ambigua*
L. cerastii
- Eupatorium capillifolium* (Lam.)
 Small
L. clavisporea
- Eupatorium coronopifolium*
 Willd.
L. mesoedema
- Eupatorium maculatum* L.
L. jacksonii
- Eupatorium purpureum* L.
L. jacksonii
- Eupatorium saucechicoense*
 Hieron.
L. preandina
- Eupatorium* sp.
L. doliolum
- Euphorbia cyparissias* L.
L. euphorbiae
- Euphorbia dendroides* L.
L. sacculus
- Euphorbia esula* L.
L. euphorbiae forma *esulae*
- Euphorbia osyridea* Boiss.
L. euphorbiicola
- Euphorbia oxyoidea* [authority
 unknown]
L. depressa
- Euphorbia pilosa* L.
L. euphorbiaecola
- Euphorbia sibthorpii* Boiss.
L. sibthorpii
- Euphorbia wulfenii* Hoppe ex
 Koch
L. bresadolaeana
- Euphorbia* sp.
L. toglorensis
- Euphrasia lutea* L.
L. conformis
- Eustephia* sp.
L. australis
- Fagus sylvatica* L.
L. valdobbiae
- Fagus* sp.
L. faginea
L. seminuda
- Farsetia incana* (L.) R. Br.
L. conferta
- Feijoa* sp. [as *F. feijoicola*]
L. feijoa
- Ferula badra-kema* K. Pol.
L. ferulicola
- Festuca arenaria* Osbeck
L. arenaria
- Festuca arundinacea* Schreber
L. sabuletorum
- Festuca kerguelensis* Hook. f.
L. kerguelensis
- Festuca* sp.
L. crastophila
L. eustomella
L. stromatoidea
L. taminensis
- Ficus elastica* Roxb.
L. fici-elasticae
- Filipendula ulmaria* Maxim.
L. obesula
L. rustica
- Flotovia excelsa* DC.
L. flotoviae
- Foeniculum vulgare* Miller
L. foeniculacea
L. foeniculi
- Foeniculum* sp.
L. doliolum
L. doliolum var. *pinquicula*
- Francoa sonchifoliae* Cav.
L. francoae
- Frasera speciosa* Dougl. ex
 Griseb.
L. fraseriae
- Frasera?* sp.
L. harknessianna
- Fraxinus americana* L.
L. fraxini
- Fraxinus* sp.
L. controversa
L. leucoplaca
- Fungi**
L. associata
L. caucana
L. cryptica
L. didymellae-vincetoxici
L. fungicola
L. geasteris
L. phyllachoricola
L. phyllachorivora
L. platychorae
L. stereicola
L. tungurahuenis
- Furcraea bedinghausii* C. Koch
L. rusci forma *fourcroyae*
- Furcraea longaeva* Karw. &
 Zucc.
L. infernalis
- Furcraea* sp.
L. translucens
- Galeobdolon luteum* Hudson
L. galeobdolonis
- Galeopsis speciosa* Miller
L. galeopsidicola
- Galium aparine* L.
L. aparines
L. scitula
- Galium boreale* L.
L. dumetorum var. *galii-borealis*
- Galium mollugo* L.
L. galicicola

- L. molluginis*
L. plectrospora
Galium sylvaticum L.
L. galii-silvatici
Galium sp.
L. galii
L. galiorum
Gaultheria shallon Pursh
L. gaultheriae
Geaster pseudolimbatus Hollós
L. geasteris
Genista anglica L.
L. genistae
Genista ferox Poir.
L. phiala
Genista tinctoria L.
L. fusispora
L. genistae var. *microspora*
Gentiana asclepiadea L.
L. umbrosa
Gentiana lutea L.
L. galiorum forma
gentianae
L. salebrosa
L. sapeyensis
Geranium richardsonii Fisch. &
 Trautv.
L. modestula
Geranium sp.
L. subcaespitosa
Gerardia sp.
L. doliolum
Ginkgo biloba L.
L. ginkgo
Glyceria aquatica (L.) Wahlenb.
L. microscopica forma
glyceriae
L. recutita
Glyceria fluitans (L.) R. Br.
L. glyceriae
Glyceria plicata (Fries) Fries
L. glyceriae-plicatae
Glyceria spectabilis Mert. &
 Koch
L. culmorum var. *fla-*
vobrunnea
Gnaphalium sp.
L. galiorum var. *gnaphali-*
ana
L. gnaphalii
Gossypium sp.
L. gossypii
Grindelia? sp.
L. nigricans var. *grindeliae*
Guazuma sp.
L. guazumae
Gymnadenia conopsea (L.) R. Br.
L. orchidearum
Gynierium argenteum Nees
L. gynerii
L. subiculifera?
Gypsophila paniculata L.
L. gypsophilae
Haloxylon aphyllum (Minkw.)
 Iljin
L. haloxyli
Hamamelis virginiana L.
L. hamamelidis
Hardenbergia violacea
 (Schneev.) Stearn
L. hardenbergiae
Hedera helix L.
L. hederiae
L. hedericola
L. helicicola
L. papulosa
Hedysarum obscurum L.
L. chochrjakovii
Heleocharis palustris (L.) Roem.
 & Schult.
L. sowerbyi
Helianthemum sp.
L. helianthemii
Helianthus annuus L.
L. drechsleri
L. helianthi
L. lindquistii
Helianthus giganteus L.
L. helianthi
Helianthus grosserratus Martens
L. drechsleri
Helianthus sp.
L. consessa
L. doliolum
L. heliopsidis
Heliopsis sp.
L. drechsleri
L. heliopsidis
Helleborus foetidus L.
L. lathonia
Helleborus viridis L.
L. lathonia var. *hellebori-*
foetidi
Helonias bullata L.
L. heloniaefolia
Hemerocallis sp.
L. hemerocallidis
Heracleum lanatum Michx.
L. simmonsii
Heracleum palmatum Baumg.
L. doliolum var. *dissimilis*
Heracleum sphondylium L.
L. massarioides
Heracleum sp.
L. doliolum
Hermodactylus tuberosus (L.)
 Miller
L. hermodactyli
Hesperis dinarica G. Beck
L. hesperidicola
Hesperis sp.
L. galiicola var. *brachy-*
spora
Hevea brasiliensis Müll. Arg.
L. heveae
Hicoria sp.
L. exocarpogena
Hieracium murorum L.
L. brauni
Hierochloë alpina (Willd.)
 Roemer & Schultes
L. hierochloae
Hierochloë antarctica R. Br.
L. fuegiana
Hippophaë rhamnoides L.
L. fuscella var. *hippophaes*
L. fuscella var. *sydowiana*
L. hippophaes
Homo sapiens
L. senegalensis
L. tompkinsii
Hordeum arenarium Ascherson
L. arenaria
Hordeum distichon L.
L. recutita
Hordeum turkestanicum Nevski
L. hordei
Hordeum vulgare L.
L. narmari
L. nodorum form sp. *hordei*
Humulus lupulus L.
L. dumetorum
Hura crepitans L.
L. hurae
Hydrangea arborescens L.
L. hydrangeae
Hydrocotyle asiatica L.
L. nesodes
Hyparrhenia sp.
L. hyparrheniae
Hypericum alpestris Stev. ex
 Ledeb.
L. hypericola
Hypericum calycinum L.
L. vagabunda
Hypericum perforatum L.
L. cesatiana
L. dematium
L. hyperici
L. lankeana
L. ocellata
Ilex paraguariensis A. St. Hil.
L. paraguariensis
L. yerbae
Inula eriithmoides L.
L. helminthospora
L. rhopalispora
Inula salicina L.
L. drasa var. *franconica*
L. franconica

- Ipomoea batatas* (L.) Lam.
L. bataticola
L. ferruginea
- Iris arenaria* Waldst. & Kit.
L. iridis
- Iris foetidissima* L.
L. iridicola
L. vectis
L. xiphii
- Iris germanica* L.
L. heterospora
L. parvula var. *iridis-germanicae*
- Iris pseudacorus* L.
L. iridigena
L. larseniana
L. longispora
L. microthyrioides
L. parvula
- Isatis tinctoria* L.
L. allorgei
- Jambosa malaccensis* DC.
L. eustomoides var. *punctata*
- Jasminum fruticans* L.
L. emiliana
- Jubaea spectabilis* Humb., Bonpl., & Kunth
L. briosiana
L. jubaeae
- Juglans regia* L.
L. petiolaris
- Juglans* sp.
L. leucoplaca
- Juncus acutiflorus* Ehrh. ex Hoffm.
L. juncorum
- Juncus acutus* L.
L. junci-acuti
- Juncus articulatus* L.
L. therophila
- Juncus biglumis* L.
L. junciseda
- Juncus drummondii* E. Mey.
L. solheimii
- Juncus effusus* L.
L. defodiens
L. hydrophila
L. junci
L. juncina
L. petkovicensis
L. pseudo-diaporthe
L. riparia
L. viridella
- Juncus filiformis* L.
L. sepalorum
- Juncus glaucus* Sibth.
L. junci
L. junci-glauci
L. subriporia
L. vitensis
- Juncus hostii* Tausch
L. juncicola
- Juncus lampocarpus* Ehrh. ex Hoffm.
L. lamprocarpi
L. monilispora
- Juncus maritimus* Lam.
L. maritima
L. neomaritima
- Juncus roemerianus* Scheele
L. neomaritima
- Juncus trifidus* L.
L. juncicola
L. sepalorum
- Juncus* sp.
L. michotii
L. norfolcia
L. variabilis
- Juniperus communis* L.
L. juniperi
- Juniperus nana* Willd.
L. juniperina
L. saphophila
- Kalmia angustifolia* L.
L. kalmiae
- Kerria japonica* (L.) DC.
L. vagabunda
- Kerria* sp.
L. coniothyrium
L. vagabunda var. *divergens*
- Kigelia pinnata* DC.
L. dryadea subsp. *lussoniensis*
- Knautia arvensis* (L.) Coultter
L. phyteumatis
- Koeleria albescens* DC.
L. clavata
- Koeleria cristata* (L.) Pers.
L. herpotrichoides
- Koeleria gracilis* Pers.
L. clavata
- Koerberiella wimmeriana* (Koerber) B. Stein
L. koerberi
- Lactuca muralis* (L.) Gaertner
L. quadriseptata
- Lactuca* sp.
L. doliolum
- Lagotis minor* (Willd.) Standley
L. holmii
- Lamium album* L.
L. parietariae forma *lamii*
- Lantana camara* L.
L. isocellula
L. rajasthanensis
- Lappa* sp.
L. eriophora
L. galiicola var. *brachyspora*
L. modesta forma *lappae*
- Lapsana communis* L.
L. galiorum var. *lapsanae*
- Laserpitium angustifolium* Georgi
L. oreophiloides
- Laserpitium halleri* Crantz
L. ladina
- Laserpitium latifolium* L.
L. ettalensis
- Laserpitium siler* L.
L. cornuta
L. sileris
- Laserpitium* sp.
L. spectabilis
- Lathyrus latifolius* L.
L. lathyrina
L. niessleana
- Lathyrus niger* (L.) Bernh.
L. dolioloides var. *lathyri*
- Lathyrus sylvestris* L.
L. lathyri
L. multiseptata
- Laurus nobilis* L.
L. lauri
L. nobilis
L. paoluccii
- Laurus* sp.
L. coniothyrium var. *foliicola*
- Lavandula stoechas* L.
L. lavandulae
- Lavandula vera* DC.
L. salviae forma *minor*
- Lavandula* sp.
L. cavonillesii
- Lecanora frustulosa* (Dicks.) Ach.
L. steinii
- Lecidea excentrica* Roehling
L. advenula
- Lecideo vernalis* (L.) Ach.
L. consocians
- Leersia oryzoides* (L.) Swartz
L. leersiae
L. leersiana
- Leleba* sp. [as *L. simplex*]
L. lelebae
- Lemanea pluviale* C. Aq.
L. fluviatilis
L. lemanceae
- Leonurus cardiaca* L.
L. doliolum var. *leonuri*
- Lepidium campestre* (L.) R. Br.
L. ogilviensis forma *lepidii*
- Lepidium virginicum* L.
L. virginica
- Leptorhaphis leptogiophila* Minks ex Wint.
L. leptogiophila
- Lepus europaeus*
L. fimiseda
- Lespedeza bicolor* Turcz.
L. lespedezae

- Lespedeza capitata* Michx.
L. microspora
Liatrix scariosa (L.) Willd.
L. trimerioides
Libanotis montana Crantz
L. foliicola
L. libanotis
Libanotis sp.
L. longchampsii
Lichenes
L. advenula
L. apocalypsa
L. arnoldii
L. baemycearia
L. caninae
L. clarkii
L. consocians
L. corae
L. crozalsii
L. galligena
L. geographicola
L. inarensis
L. koerberi
L. leptogiophila
L. leucomelaria
L. lichenicola
L. maheui
L. mamillula
L. neottizans
L. oligospora
L. parmiliarum
L. peltigerarum
L. peltigera
L. polaris
L. pycnostigma
L. ramalinae
L. rivana
L. rivana forma solorinae
L. sphyridiana
L. steinii
L. stereocaulorum
L. tartarina
L. umbilicariae
L. usneae
Lilium martagon L.
L. martagoni
Lilium superbum L.
L. lili
Lilium sp.
L. lilicola
Linum tenuifolium L.
L. hrubyana
Lippia (Aloysia) cilirodora Kunth
L. octophragma var. *major*
Lippia scriphioides A. Gray
L. basalduai
Liriodendron tulipifera L.
L. halima
Liriodendron sp.
L. stictoides
Lobelia excelsa Lesch.
L. lobeliae
Lobelia tupa L.
L. tupae
Lolium perenne L.
L. eustomoides
L. lolii
Lomatia obliqua R. Br.
L. chilensis
Lonicera alpigena L.
L. albulae
Lonicera canadensis Bartr.
L. loniceræ
Lonicera caprifolium L.
L. caprifolii
L. corticola
Lonicera periclymenum L.
L. periclymeni
Lonicera tatarica L.
L. frondis
L. periclymeni var. *tatarica*
L. surculorum
Lonicera xylostereum L.
L. loniceræ
Lonicera sp.
L. aulica
L. loniceræ
Lophanthus sp.
L. lophanthi
Lunaria rediviva L.
L. lunariae
Lupinus sp.
L. barriæ
L. byssincola
L. foeniculacea subsp.
lupina
L. frigida
L. lupini
L. lupinicola
Lupinus latifolius J.G. Agardh
L. wehmeyeri
Lupinus obtusilobus
L. castrensis
Lupinus rubricaulis Greene
L. wehmeyeri
Lupinus albicaulis var. *shastensis*
L. shastensis
Luzula albida (Hoffm.) DC.
L. culmorum forma
hungarica
L. epicalamia var.
pleosporoides
L. juncina forma *macrospora*
Luzula lutea (All.) DC.
L. epicalamia
L. microscopica var. *alpina*
Luzula maxima (Reichard) DC.
L. luzulae
Luzula nemorosa (Pollich) E.H.F. Meyer
L. epicalamia
L. petrakii
Luzula sylvatica (Hudson) Gaudin
L. caricis
L. epicalamia
Lycium vulgare Dunal.
L. lyciophila
Lycopodium annotinum L.
L. campisilii
L. crepini
L. lycopodina
L. marcyensis
Lycopodium clavatum L.
L. lycopodiicola
Lycopodium selago L.
L. marcyensis
Lycopodium selago L. var.
appressum Desv.
L. arctalaskana
Lycopus europaeus L.
L. cesatiana
Lygeum spartum L.
L. spartii
Lythrum alatum Pursh
L. lythri
Lythrum salicaria L.
L. salicaria
Maclura aurantiaca Nutt.
L. macluræ
Magnolia grandiflora L.
L. magnoliæ
Magnolia yulan Desf.
L. yulan
Malus domestica Borkh.
L. mandshurica
L. pomona
L. ternata
Malus sp.
L. concentrica
Manihot utilissima Pohl
L. petri
Maranta arundinacea L.
L. marantæ
Marattia sp.
L. caffra
Marrubium vulgare L.
L. dumetorum var.
marrubii
Matisia paraensis Hub.
L. matisiæ
Medicago falcata L.
L. blumeri
Medicago sativa L.
L. circinans
L. medicaginicola
L. medicaginis
L. pratensis

- Medicago* sp.
L. medicaginis
L. medicaginum
Melampyrum pratense L.
L. suffulta
Melandrium apetalum (L.) Fenzl
L. vanhoeffeniana
Melandrium triflorum J. Vahl. ex Liebm.
L. vahlii
Melica altissima L.
L. culmicola forma *melicae*
L. fuscidula
Melica inaequigumis Boiss.
L. melicae
Melica magnolii Gren. & Godron
L. fuscidula forma *magnolii*
Melica uniflora Retz.
L. melicae
Melilotus alba Medicus
L. dumetorum forma *meliloti*
L. meliloti
Melilotus sp.
L. viridella
Menispermum canadense L.
L. coniothyrium
Mentha piperita L.
L. substerilis
Mentha sylvestris L.
L. menthae
L. zahlbruckneri
Mertensia sp.
L. mertensiae
Mesogloia leveillei (J. Ag.) Mengh.
L. mirandae
Metasequoia glyptostroboides Hu & Cheng
L. metasequoiae
Mikania sp.
L. agnita var. *acheniarum*
L. mikaniae
Milium effusum L.
L. linearis
Minuartia sedoides (L.) Hiern.
L. demissiana
Monotes dasyanthus Gilg.
L. baumii
Moriera sp.
L. morierae
Morus alba L.
L. fallax
L. massariella var. *disticha*
Morus sp.
L. japonica
Muehlenbeckia platyclados Meissn.
L. muehlenbeckiae
Muehlenbergia filiformis Rydb.
L. georgius-fischeri
Muehlenbergia racemosa (Michx.) Britton, Stern, & Pogg.
L. muehlenbergiae
Musa cavendishii Lamb. ex Paxton
L. musae
L. musigena
Musa sp.
L. musarum
L. taichungensis
Muscari comosum (L.) Miller
L. muscari
Musci
L. bryophila
L. cinclidoti
L. heufleri
L. polytrichina
Myrica gale L.
L. myricae
Myrrhis odorata (L.) Scop.
L. ogilviensis forma *myrrhis-odorata*
Myrtus communis L.
L. myrti
L. myrticola
Nandina domestica Thunb.
L. nandinae
Nardus stricta L.
L. nardi
L. pachythea
Obione portulacoides (L.) Moq.
L. obiones var. *evolutior*
Obione sp.
L. obiones
Ochrolechia tartarea (L.) Massal
L. tartarina?
Ocimum sanctum L.
L. ocimicola
Oenothera biennis L.
L. capsularum
L. ellisiana
Oenothera longiflora L.
L. argentina
Onagra strigosa Rydb.
L. onagrae
Onobrychis sativa Link
L. onobrychidicola
L. onobrychidis
Ophiopogon japonicus Ker-Gawl.
L. ophiopogonis
Opuntia ficus-indica (L.) Miller
L. sicula
Opuntia lindheimeri Engelm.
L. opuntiae
Ornithogalum pyrenaicum L.
L. ornithogali
Orthrosanthus chimboracensis Baker
L. orthrosanthi
Oryza sativa L.
L. cattanei
L. inecola
L. iwamotoi
L. korrae
L. narmari
L. oryzae
L. oryzicola
L. oryzina
L. salvinii
Oryzopsis miliacea (L.) Bentham & Hooker ex Ascherson & Graebner
L. papillosa
Oxalis stricta L.
L. aglaja
Oxyria digyna (L.) Hill
L. oxyriae
Paeonia moutan Sims.
L. moutan
Palm
L. trochus
Pandanus odoratissimus Nor.
L. pandanicola
Pandanus utilis Bory
L. pandani
Panicum crus-galli L.
L. occidentalis
Panicum grumosum Nees
L. anthostomella
L. melanommoides
L. subsuperficialis
Panicum palmaefolium Koen.
L. panici
Papaver radicum Rottb.
L. papaveris
Parietaria officinalis L.
L. muralis
L. parietariae
Parmelia saxatilis (L.) Arch.
L. parmeliarum
Parmelia sp. [as *P. atrata* Zahlbr.]
L. galligena
Paspalum giganteum Baldw. ex Vasey
L. proteispora
Pastinaca sativa L.
L. clivensis
Pastinaca sp.
L. doliolum
L. setosa
Pedicularis brachyodonta Schlosser & Vuk. var. *fallacis* (Beck) Hayek
L. malyi
Pedicularis bracteosa Benth. ex Hook.
L. jacksonensis

- Pedicularis debilis* Franch. ex Maxim.
L. doliolum var. *angustipora*
- Pelargonium capitatum* (L.) L'Her.
L. elaoudi
- Pelargonium* sp.
L. pelargonii
- Peltigera aphthosa* (L.) Willd. forma *complicata* Th. Fries
L. peltigerarum
- Peltigera canina* (L.) Willd.
L. caninae
L. mamillula
L. rivana
- Peltigera malacea* (Ach.) Funck.
L. arnoldii
- Peltigera* cf. *rufescens* (Weis.) Humb.
L. clarkii
- Peltigera* sp.
L. peltigerea
- Pennisetum clandestinum* Hochst. ex Chiov.
L. narmari
- Pennisetum purpureum* Schum.
L. penniseti
L. penniseticola
- Penstemon confertus* Dougl. ex Lindl.
L. lethalis
- Periclymenum* sp.
L. vagabunda forma *loniceræ*
- Persea americana* P. Mill.
L. gratissima
L. gratissima var. *longispора*
- Persea lingue* Nees
L. lingue
- Petasites* sp.
L. vagabunda var. *caulium*
- Petroselinum hortense* auct.
L. melanommoides
- Peucedanum cervaria* (L.) Lapeyr.
L. penicillus
- Peucedanum longifolium* Waldst. & Kit.
L. doliolum forma *syndoliola*
- Phaca alpina* L.
L. phacæ
- Phalaris arundinacea* L.
L. fückelii forma *filamentifera*
- Phaseolus vulgaris* L.
L. phaseoli
L. phascolorum
- Phleum arenarium* L.
L. arenaria
- Phleum boehmeri* Wibel.
L. rousseliana
L. sequana
- Phleum pratense* L.
L. culmifida
- Phlox decussata* Lyon
L. phlogis
- Phoenix canariensis* Hort. ex Chabaud
L. batumensis
- Phoenix dactylifera* L.
L. phoenicis
L. pinnarum
L. pinnarum var. *rachidis*
- Phoradendron townsendii* Trel.
L. phoradendri
- Phormium* sp.
L. phormicola
L. phormii
L. roumegueri
- Phragmites communis* Trin.
L. albo-punctata
L. arundinacea
L. arundinacea var. *godini*
L. clavicularpa
L. culmicola var. *hispalensis*
L. culmorum forma *phragmitis*
L. elaeospora
L. graminis
L. larsentana
L. nigrans forma *arundinis*
L. perpusilla
L. phragmiticola
L. subalpina
L. typharum subsp. *phragmatina*
L. vaginæ
- Phragmites* sp.
L. arundinacea
L. culmicola var. *rhizomatium*
L. cumulata
L. mosana
- Phyllachora disseminata* Syd.
L. phyllachoricola
- Phyllachora graminis* (Pers.:Fr.) Fückel
L. phyllachorivora
- Phyllachora tungurahuenis* Petrak
L. tungurahuenis
- Phyllachora* sp.
L. caucana
L. cryptica
- Phyllostachys bambusoides* Siebold & Zucc.
L. bambusæ
- Phyllostachys bambusoides* Sieb. & Zucc. var. *bambusoides*
L. minoensis
L. phyllostachydis
- Physalis pubescens* L.
L. physalidis
- Physostegia virginiana* (L.) Benth.
L. physostegiae
- Phyteuma scheuchzeri* All.
L. psilospora
- Phyteuma spicatum* L.
L. phyteumatis
- Phytolacca americana* L.
L. clavigera
L. variegata
- Phytolacca decandra* L.
L. phytolaccae
- Picris hieracioides* L.
L. picridis
- Pilularia* sp.
L. pilulariæ
- Pimpinella anisum* L.
L. pimpinellæ
- Pinecnectria* sp.
L. almeidana
- Pinus sylvestris* L.
L. acicola
L. picastra
L. pini
- Pinus* sp.
L. squamata
- Piper capense* L.
L. piperis
- Pircunia dioica* Moq.
L. argentinensis
- Pistacia terebinthus* L.
L. emiliana
- Placodium teicholytum* (Ach.) DC.
L. crozalsii
- Plantago alpina* L.
L. winteri
- Plantago cynops* L.
L. cynops
- Plantago macrostachys* Decne.
L. austro-americana
- Plantago maritima* L.
L. vagabunda subsp. *alvarensis*
- Plantago* sp.
L. plantaginicola
- Platanus occidentalis* L.
L. platanicola
- Platanus* sp.
L. platanicola
- Platychora ulmi* (Schleich.:Fr.) Petrak
L. platychoræ

- Pleioblastus hindsii* (Munro)
Nakai
 L. bambusae
- Pleioblastus simoni* (Carriere)
Nakai
 L. bambusae
- Pleurospermum austriacum* (L.)
Hoffm.
 L. ogilviensis var.
 pleurospermi
- Plocama pendula* W. Aiton
 L. plocamae
- Plumbago* sp.
 L. plumbaginis
- Poa alpina* L.
 L. microscopica
- Poa annua* L.
 L. muirensis
- Poa aquatica* L.
 L. culmifraga var.
 propinqua
- Poa colpodea* Th. Fries
 L. microscopica
- Poa nemoralis* L.
 L. linearis
 L. poae
- Poa pratensis* L.
 L. avenaria
- Poa sudetica* Haenke
 L. culmifraga forma *poae*
- Poa* sp.
 L. sparsa
- Poa* sp.?
 L. anarithmoides
- Polygonatum* sp.
 L. polygonati
- Polygonum bistorta* L.
 L. altaica
- Polymnis* sp.
 L. doliolum
- Polytrichum formosum* Hedw.
 L. heufleri
- Polytrichum juniperinum* Willd.
ex Hedw. var. *alpinum* Schimp.
 L. polytrichina
- Populus alba* L.
 L. aegira
 L. alcides
 L. leucoplaca
- Populus balsamifera* L.
 L. borealis var. *populi*
- Populus nigra* L.
 L. salicinearum
- Populus tremula* L.
 L. immunda
- Populus* sp.
 L. decaisneana
- Porella* sp.
 L. porellae
- Potentilla argentea* L.
 L. minima
 L. superficialis
- Potentilla argyrophylla* Wallich
ex Lehm.
 L. hollosiana
- Potentilla caulescens* L.
 L. pulchra
- Potentilla fragarioides* L.
 L. hollosiana
- Potentilla maculata* Pour.
 L. oligotheca
- Potentilla* sp.
 L. doliolum
- Poterium sanguisorba* L.
 L. poterii
- Primula elatior* (L.) Hill
 L. primulana
- Primula latifolia* Lapeyr.
 L. primulaecola
- Primula sikkimensis* Hook.
 L. delawayi
- Protea melaleuca* R. Br.
 L. protearum
- Prunella vulgaris* L.
 L. brunellae
 L. hesperia
- Prunus avium* L.
 L. rimicola
- Prunus baccata* Borkh.
 L. corticola
- Prunus domestica* L.
 L. corticola
 L. pruni
- Prunus dulcis* (Mill.) D.A. Webb
 L. pachytheca
- Prunus nume* Sieb. & Zucc.
 L. nume
- Prunus spinosa* L.
 L. corticola
 L. lycii
- Pseudosasa japonica* (Siebold &
Zucc. ex Steudel) Makino
 L. bambusae
- Pteridium aquilinum* (L.) Kuhn
 L. coorgica
- Pteris aquilina* L.
 L. aquilina
- Pterocelastrus tricuspidatus*
Walp.
 L. pterocelastri
- Punica granatum* L.
 L. puniciae
- Pyrola secunda* L.
 L. marginata
- Pyrus communis* L.
 L. lucilla
 L. subcutanea
- Pyrus sinensis* Hort.
 L. nashi
- Quamoclidion multiflorum* Torr.
ex A. Gray
 L. quamoclidii
- Quercus pedunculata* Ehrh.
 L. dryadea
 L. vagabunda
- Quercus robur* L.
 L. alcides forma *quercina*
- Quercus suber* L.
 L. scolecosporarum
- Quercus virens* Ait.
 L. janus
- Quercus* sp.
 L. dryophila
 L. leucoplaca
 L. puteana
- Radicula* sp. (= *Rorippa* sp.)
 L. reidiana
- Ramalina* sp.
 L. ramalinae
- Ranunculus affinis* R. Br.
 L. ranunculi
- Ranunculus nivalis* L. var.
sulphureus Wahlenberg
 L. weberi
- Ranunculus polyanthemos* L.
 L. ranunculi-polyanthemi
- Ranunculus thora* L.
 L. thorae
- Ranunculus villarsii* DC.
 L. andrijevicensis
- Raphanus maritimus* Sm.
 L. raphani
- Reseda lutea* L.
 L. resedae
- Restio australis* R. Br.
 L. restionis
- Rhamnus* sp.
 L. limitata
- Rhinanthus* sp.
 L. affinis
 L. dolioloides var.
 rhinanthi
- Rhizocarpon geographicum* (L.)
DC.
 L. geographicum
 L. polaris
- Rhodiola rosea* L.
 L. rhodiolicola
- Rhododendron ferrugineum* L.
 L. rhododendri
- Rhododendron* sp.
 L. californica
 L. rhododendri
- Rhus glabra* L.
 L. rhoina
- Rhus typhina* L.
 L. curta
- Ribes alpinum* L.
 L. cladophila
 L. ribis
- Ribes grossularia* L.
 L. grossulariae

- Ribes nigrum* L.
L. anceps
Ricinus communis L.
L. torrendii
Rinodina collectica (Flk.) Arn.
L. maheui
Robinia pseudacacia L.
L. eustoma forma *leguminosa*
L. lyndonvillae
L. petiolicola
Rosa canina L.
L. aculeorum
Rosa sp.
L. coniothyrium
L. corticola
L. fuscilla
L. hazslinszkii
L. lejustega
L. sepincola
Rubia perigrina L.
L. bornmuelleri
L. icositana
Rubus fruticosus L.
L. coniothyrium
L. notarisii
Rubus idaeus L.
L. oxyspora
L. praetermissa
Rubus odoratus L.
L. praetermissa
Rubus sp.
L. abbreviata
L. controversa
L. doliolum
L. hendersoniae
L. osculanda
L. sepincola
L. thomastana
L. vagabunda var. *sarmenti*
Rudbeckia amplexicaulis Vahl.
L. rudbeckiae
Rulingia prostrata Maiden & Betche
L. rulingiae
Rumex acetosa L.
L. quadriseptata
Rumex nepalensis Sprengel
L. rumicicola
L. rumicis
Rumex patientia L.
L. rumicis
Rumex scutatus L.
L. scutati
Rumex sp.
L. rumicis
L. sepincola
L. wegeliniana
Ruscus aculeatus L.
L. convallariae forma *ruscii*
L. glauco-punctata
L. rusci
L. rusci forma *caulina*
L. ruscicola forma *cladodiicola*
Ruscus androgyneus L.
L. rusci
Ruscus hypoglossum L.
L. rusci
L. rusci var. *ruscii-hypoglossi*
Ruscus hypophyllum L.
L. rusci var. *hypophyllum*
Ruscus sp.
L. ruscicola
Ruta graveolens L.
L. bulgarica
Sabal serrulata Roem & Schult.
L. sabalicola
Sabal sp.
L. sabaligera
Saccharum officinarum L.
L. bicolor
L. kuangfuensis
L. sacchari
L. saccharicola
L. spegazzini
L. spegazzini var. *minor*
L. taiwanensis
L. tucumanensis
Sagittaria sp.
L. duplex
Salicornia peruviana H.B.K.
L. promontorii
Salix alba L.
L. salicinearum
Salix aurita L.
L. cinerea
Salix caprea L.
L. vagabunda forma *salicis-capreae*
Salix purpurea L.
L. purpurearum
L. vagabunda
Salix vitellina L.
L. coniothyrium
Salix sp.
L. baggei
L. borealis
L. consimilis
L. gillotiana
L. hendersoniae
L. leucoplaca
L. lonicerina
L. malojensis
L. xylogena
Salsola kali L.
L. kali
L. lecanora
L. salsolae
Salvia glutinosa L.
L. montana
Salvia officinalis L.
L. nicolai
L. salviae
Salvia pratensis L.
L. caespitosa forma *salviae*
Sambucus ebulus L.
L. derasa forma *macrospora*
L. dumetorum forma *ebuli*
L. megalospora
L. ruthenica
Sambucus melanocarpa A. Gray
L. sambucina
Sambucus nigra L.
L. coniothyrium
L. sambuci
Sambucus racemosa L.
L. dumetorum var. *dolichospora*
L. hirta
L. luxemburgensis var. *dolichospora*
L. tiroliensis
Sanguisorba officinalis L.
L. sanguisorbae
Sanguisorba polygama F. Nyl.
L. sanguisorbae
Sansevieria ehrenbergii
Schweinf. ex Baker
L. baldratiana
Sarothamnus scoparius (L.) Wimmer ex Koch
L. fuscilla forma *microspora*
L. sarothamni
Sarothamnus sp.
L. californica
Sarracenia purpurea L.
L. scapophila
Sasa paniculata (F. Schmidt) Makino
L. bambusae
Sasa sp.
L. sasacola
L. sasae
Sasaella ramosa (Makino) Makino
L. bambusae
Satureja hortensis L.
L. fallaciosa
Saxifraga oppositifolia L.
L. brachyasca
Saxifraga sp.
L. monotis
Scabiosa columbaria L.
L. modesta
L. passerinii
Scabiosa urceolata Desf.
L. obesa
Scheuchzeria palustris L.
L. bacillifera

- Schoenocaulon officinale* A. Gray
L. schoenocauli
Schoenoplectus lacustris (L.)
Palla
L. lacustris
L. sowerbyi
Scirpus holoschoenus L.
L. apogon
L. holmii
L. micropogon
L. striolata
Scirpus lacustris L.
L. culmicola var. *aquatica*
L. maculans
L. scirpina
L. sowerbyi
Scirpus maritimus L.
L. saxonica
Scirpus sylvaticus L.
L. nardi var. *dubiosa*
Scirpus sp.
L. littoralis
L. maculans
L. michotii
Scrophularia aquatica L.
L. camilla
L. scrophulariae
Scrophularia canina L.
L. torbolensis
Scrophularia nodosa L.
L. oreophiloides subsp.
scrophulariae
Scutellaria brevibracteata Stapf
L. davisiana
Secale cereale L.
L. secalina
L. secalis
L. setulosa
Secale sp.
L. pontiformis
Selaginella arenicola subsp.
acanthonota (Underwood) R.
Tryon
L. rostrata
Selaginella helvetica (L.) Spring
L. helvetica
L. helvetica forma *major*
L. lycopodiicola var. *major*
L. major
Selaginella rupestris (L.) Spring
L. rostrata
Selaginella underwoodii Hieron.
L. mellispora
Semele androgyna (L.) Kunth
L. semelina
Semiarundinaria tatebeana Muroi
L. bambusae
Senecio atratus Greene
L. clivensis
L. clivensis var. *constricta*
Senecio cordatus Koch
L. ogilviensis var.
senecionis-cordata
Senecio crassulus A. Gray
L. octoseptata
Senecio erucifolius L.
L. rothomagensis
Senecio fuchsii C.C. Gmelin
L. dumetorum var.
coniformis
Senecio jacobaea L.
L. derasa
L. modesta forma *jacobaea*
L. ogilviensis
Senecio nemorensis L.
L. macrospora
L. robusta
L. senecionis
Senecio rupestris Waldst. & Kit.
L. robusta
Senecio vulgaris L.
L. dolioloides
Senecio sp.
L. clivensis
L. doliolum
Seseli montanum L.
L. montis-bardi
Seseli sp.
L. niessleana var. *staritzii*
Sieversia turbinata (Rydb.)
Greene
L. sieversiae
Silene acaulis (L.) Jacq.
L. haussmanniana
L. haussmanniana var.
cherleriae
L. sabauda
L. silenes-acaulis
Silene arvatia Lag.
L. sabauda forma *arvatiae*
Silene inflata Sm.
L. silvestris
Silene rosulata Soyer-Willem. &
Godr.
L. indepressa
Sinapis arvensis L.
L. sinapis
Sisymbrium alliaria (L.) Scop.
L. alliariae
Sisymbrium loeselii L.
L. submaculans
Sisymbrium strictissimum L.
L. acutispora
Smallanthus uvedalia (L.)
Mackenzie
L. longipedicellata
Smilax aspera L.
L. aetnensis
L. catalaunica
L. smilacis
Smilax excelsa L.
L. dobrogica
Smilax mauritanica Poiret
L. papulosa
Smilax pseudo-china L.
L. nervisequa
Smilax sp.
L. doliolum
L. smilacis
Sobolewsia lithophila Bieb.
L. lithophilae
Solanum dulcamara L.
L. opizii
L. sarmenticia
L. solani
L. solanicola
L. umbrosa
L. vagabunda var.
dulcamarae
Solanum sodomaeum L.
L. sodomaea
Solanum sp.
L. comatella
Solidago caesia L.
L. longipedicellata
Solidago virgaurea L.
L. ogilviensis forma
megalospora
L. planiuscula
Solidago sp.
L. aulica
L. doliolum
L. perplexa
L. solidaginis
Solorina crocea (L.) Ach.
L. lichenicola
L. oligospora
L. rivana forma *solorinae*
Sonchus sp.
L. doliolum
Sophora japonica L.
L. sophorae
Sophora tetraptera J. Mill.
L. martinianum
Sorbaria sorbifolia A. Br.
L. spiraeae
Sorbus aucuparia L.
L. sorbi
Sorbus sp.
L. leucoplaca
Sorghum arundinaceum Roem &
Schult.
L. sorgho-arundinacei
Sorghum vulgare Pers.
L. amphibola
L. culmifraga
L. eustoma
L. grisea
L. septovariata

- Sparganium erectum* L.
L. sparganii
Sparganium ramosum Hudson
L. huthiana
L. sparganii
L. sparsa var. *meizospora*
Sparganium sp.
L. clara
Spartina alterniflora Loisel.
L. neomaritima
Spartina juncea auct.
L. borziana
Spartina townsendii H. Groves & J. Groves
L. neomaritima
Spartina sp.
L. discors
L. duplex
L. incarcerationata
L. macrosporidium
L. marina
L. neomaritima
L. pelagica
L. spartinae
L. stricta
Spartium junceum L.
L. lusitanica
Spartium sp.
L. dioica
Sphyridium fungiforme Flotow
L. sphyridiana
Spiraea sorbifolia L.
L. spiraeae
Sporobolus depauperatus Torr. ex Hemsl.
L. sporoboli
Staphylea trifolia L.
L. rubrotincta
Statice occidentalis Lloyd
L. staticicola
Steironema ciliatum (L.) Rafin.
L. steironematis
Stellaria graminea L.
L. isariphora
L. satebricola
Stellaria humifusa Rottb.
L. stellariae
Stellaria media (L.) Vill.
L. richoni
L. stellariae
Stellaria uliginosa Murray
L. uliginosa
Stenotaphrum secundatum (Walter) O. Kuntze
L. narmari
Stereocaulon alpinum Laur.
L. apocalypsa
L. stereocaulorum
Stereum bicolor (Pers.) Pers.
L. stericola
Stereum subpileatum Berkeley & Broome
L. fungicola
Stipa capillata L.
L. stipae
Stipa pennata L.
L. matritensis
Stipa tenacissima L.
L. macrochloae
L. pampaniniana
L. stipae
L. stipae-minor
Stratiotes aloides L.
L. stratiotis
Suaeda australis Moq.
L. suaedae
Succisa pratensis Moench.
L. planiuscula
Succisa sp.
L. modesta forma *succisae*
L. morthieriana
Swertia sp.
L. swertiae
Symphytum caucasicum Bieb.
L. dumetorum var. *symphyti*
Syringa vulgaris L.
L. trematostoma
Tamarix gallica L.
L. hollosii
L. meridionalis
L. tamaricis
Tamarix germanica L.
L. tamaricis
Tamarix sp.
L. crozalsiana
Tanacetum vulgare L.
L. doliolooides
L. tanacetii
L. thielensii
Taxus canadensis Marsh.
L. taxicola
Tecoma radicans Juss.
L. carpophila
Tellima grandiflora (Pursh) Douglas ex Lindley
L. deficiens
Tephrosia virginiana (L.) Pers.
L. tephrosiae
Teucrium scorodonia L.
L. teucrii
L. wegeliniana forma *teucrii*
Thalictrum aquilegifolium L.
L. tenuis
L. thalictri
L. thalictrina
Thalictrum collinum Wallr.
L. thalictricola
Thalictrum dioicum L.
L. houseana
Thalictrum flavum L.
L. cruenta
Thalictrum minus L.
L. quadriseptata
Thea sinensis L.
L. cavarae
L. hottai
Theobroma cacao L.
L. theobromicola
Thermopsis montana Nutt.
L. wehmeyeri
Thuja orientalis L.
L. thujaecola
Tilia sp.
L. leucoplaca
L. priuscheggiana
Tillandsia bicolor Brongn.
L. aerea
Tofieldia calyculata (L.) Wahlenb.
L. crastophila forma *tofieldiae*
L. oreophila
L. submodesta
L. tofieldiae
Tortula tortuosa Ehrh. ex Hedw.
L. bryophila
Tragopogon sp.
L. ophioboloides
Trevoa trinervia Gill. & Hook.
L. trevoae
Trichopteryx sp. [as *T. afroflamida*]
L. trichopterygis
Trifolium alpestre L.
L. trifolii-alpestris
Trifolium angustifolium L.
L. agnita var. *trifolii*
Trifolium kingii S. Wats.
L. monticola
Trifolium medium L.
L. trifolii
Trifolium trichocephalum Bieb.
L. balcarica
Triglochin maritima L.
L. hollosiana
L. juncaginearum
L. maritima
Triglochin palustris L.
L. juncaginearum
L. monilisporea forma *triglochinis*
L. triglochinicola
L. triglochimis
Trisetum distichophyllum (Vill.) Beauv.
L. volkartiana
Trisetum longiglume Hackel
L. mcdoziana
Trisetum spicatum (L.) K. Richter
L. hollosiana
L. volkartiana

- Trisetum subspicatum* (L.) Beauv.
L. microscopica
Triticum aestivum L.
L. korrae
L. narmari
Triticum durum Desf.
L. avenaria form sp.
triticea
Triticum repens L.
L. rubelloides
Triticum vulgare Vill.
L. avenaria form sp.
triticea
L. nodorum
L. recutita
L. tritici
Triticum sp.
L. pontiformis
Trollius europaeus L.
L. trollii
Typha angustata Bory & Chaub.
L. aquatica
Typha angustifolia L.
L. dematiicola
L. iridigena var. *typhae*
L. lacustris
L. typharum
L. typhiseda
L. typhiseda forma
sodoloci
Typha latifolia L.
L. bispora
L. caricis
L. grandispora
L. kunzeana
L. lacustris
L. licatensis
L. licatensis forma
rupefortensis
L. maculans var. *typhicola*
L. palustris
L. perpusilla var. *typhae*
L. pseudohleria
L. punctillum
L. typhae
L. typharum
L. typhicola
Typha sp.
L. duplex
L. mucosa
Ulmus campestris auct.
L. massariella
L. ulmicola
Ulmus sp.
L. leucoplaca
L. ramulicola
- Umbellularia* sp.
L. odora
Umbilicaria pustulata (L.)
Hoffm.
L. umbilicariae
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L. acuta forma *urticae*
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L. lejostega
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L. dubia
Valeriana officinalis L.
L. agnita
L. carneomaculans
L. quadriseptata
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L. echinops
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L. drechsleri
Veronica latifolia auct.
L. striata
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L. carpogena
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Viburnum tinus L.
L. tini
Vicia cracca L.
L. viciae
Vicia sativa L.
L. niessleana forma *viciae*
Vinca major L.
L. maderensis
Vinca media Hoffmanns. & Link
L. demissa
Vinca minor L.
L. vincae
Vincetoxicum officinale Moench
L. molybdina
Vincetoxicum sp.
L. scotophila
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- Vitis vinifera* L.
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L. cerletii
L. chaetostoma
L. cirricola
L. cookii
L. gibelliana
L. pampini
L. socia
L. vinealis
L. viticola
L. vitigena
L. vitis
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L. brasiliensis
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L. filamentosa
Yucca gloriosa L.
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Yucca sp. [as *Y. colusplei*]
L. pacifica
Zea mays L.
L. bubakii
L. ceratispora
L. hyalospora
L. interspersa
L. luctuosa
L. maydis
L. patellaeformis
L. punctiformis
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L. zcae-maydis
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L. zizaniaecola

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- L. eranthemi*

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- L. dioica*
- L. inquinans*
- L. leucoplaca*
- L. muelleri*
- L. obesula*
- L. vagabunda*

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- L. almeidana*
- L. baldratiana*
- L. convallariae*
- L. convallariae* forma
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- L. cordylines*
- L. dasylirii*
- L. dracaenae*
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L. quadriseptata
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L. rothomagensis var. *artemisiae*
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L. fusispora forma *erysimi*
L. galiicola var. *brachyspora*
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L. lithophilae
L. lunariae
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L. olericola
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L. hollosiana
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L. juncicola
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- L. triglochinicola*
- Cones
- L. pini*
- Culms
- L. aliena*
L. amphilogia
L. anthrostomella
L. apogon
L. arenaria
- L. arrhenatheri*
L. arundinacea
L. baldingeriae
L. bambusae
L. bambusicola
L. beaumontii
L. bryzae
L. cattanei
L. cirsii-arvensis
L. clavicaarpa
L. coccodes
L. conimbricensis
L. culmicola
L. culmicola var. *aquatica*
L. culmicola var. *minor*
L. culmifida
L. culmifraga
L. culmifraga forma
majuscula
L. culmorum forma
hungarica
L. culmorum var. *fla-*
vobrunnea
L. culmorum var. *paleicola*
L. cumulata
L. cynosuri
L. dactylina
L. discors
L. donacina
L. epicalamia
L. epicalamia var.
pleosporoides
L. eumorpha
L. eustomella
L. eustomoides
L. graminis
L. grisea
L. hazslinskyana
L. helianthi
L. herpotrichoides
L. holmii
L. ischaemi
L. junci
L. juncicola
L. juncina
L. junci-acuti
L. larvalis
L. lelebae
L. linearis
L. lineolaris
L. littoralis
L. littoralis forma
calamagrostidis-
arenariae
L. lolii
L. luctuosa
L. marina
L. maritima
L. matritensis
L. melanommoides
- L. michotii*
L. microscopica forma
brachypodii
L. monilispora
L. mosana
L. moutoniana
L. nardi
L. neomaritima
L. nigrans forma *arundinis*
L. nodorum
L. occidentalis
L. oryzae
L. pachycarpa
L. pachythea
L. papillosa
L. patellaeformis
L. pelagica
L. penniseti
L. perpusilla var. *typhae*
L. petkovicensis
L. petkovicensis var. *elymi*
L. petrakii
L. phacae
L. phragmiticola
L. pleurospora
L. poae
L. pontiformis
L. proteispora
L. punctiformis
L. raphani
L. reidiana
L. rhodophaea
L. riparia
L. rubelloides
L. rusci
L. rusci forma *caulina*
L. rusci var. *hypophylli*
L. sabauda
L. sanguisorbae
L. saxonica
L. scabiens
L. scabrispora
L. scirpina
L. secalina
L. setulosa
L. solheimii
L. sowerbyi
L. sparsa
L. spartii
L. spartinae
L. spegazzini var. *minor*
L. sporoboli
L. sticta
L. straminis
L. stromatoidea
L. subcompressa
L. subsuperficialis
L. taminensis
L. therophila
L. thurgoviensis

- L. trichopterygis*
L. tucumanensis
L. typhae
L. variabilis
L. volkartiana
L. weddellii
- Driftwood
L. orac-maris
- Exocarp
L. exocarpogena
- Feathers
L. corvina
- Florets
L. lamprocarpi
- Fronds
L. aquilina
L. asplenii
L. caffra
L. elaeidicola
L. matisiae
L. pinnarum
- Fruits
L. dryadis
L. genistae
L. pomona forma *transilvanica*
- Glumes
L. oryzina
- Hymenium
L. consocians
L. fungicola
L. lichenicola
L. stercicola
- Involucre
L. involucrealis
- Leaves
L. abutilonis
L. aceris
L. acicola
L. acorella
L. acori
L. aegira
L. aeluropodis
L. aerea
L. agaves
L. aglaja
L. alcides
L. alcides forma *quercina*
L. alexandrinis
L. algarbiensis
L. algida
L. aliena
L. almeidae
L. aloes
L. alopecuri
L. alpiniae
L. ammophilae
L. anarithma
L. anarithmoides
L. andromedae
- L. antarctica*
L. apios
L. apios-fortunei
L. aquatica
L. arecae
L. arenaria
L. arenaria form sp.
triticea
L. arrhenatheri var. *italica*
L. asperellae
L. aspidistrae
L. auerswaldii
L. australis
L. austro-americana
L. avenae
L. avenaria
L. bacillifera
L. baldratiana
L. bambusae
L. bataticola
L. batumensis
L. baumii
L. berberidicola
L. betulina
L. bicolor
L. bispora
L. bomarcae
L. bondari
L. bornmuelleri
L. brachyasca
L. brachypodii
L. brasiliensis
L. briosiana
L. buddlejae
L. californica
L. calopogonii
L. camelliae
L. camellioe-japonicoe
L. camilla
L. camphorosmae
L. campisilii
L. canephorae
L. cannabina
L. cannae
L. caricicola
L. caricina
L. caricinella
L. caricis
L. caricis-firmae
L. caricis-vulpinae
L. cattanei
L. cavarae
L. ceballosi
L. eecropiae
L. cercocarpi
L. chamaeropsis
L. chenopodii-albi
L. chochrjakovii
L. chusqueae
L. citricola
- L. clara*
L. clavata
L. coccothrinacis
L. cocoes
L. coffaeicida
L. coffeigena
L. coicis
L. collumiae
L. colocasiae
L. concentrica
L. coniothyrium
L. coniothyrium var.
foliicola
L. consobrina
L. consociata
L. convallariae
L. convallariae forma
dracaenae
L. convallariae forma
rusci
L. cordylines
L. corrugans
L. coumarounae
L. crastophila
L. crastophila forma
tofieldiae
L. cucurbitae
L. culmicola var. *hispalensis*
L. culmifraga var. *alpestris*
L. culmifraga var.
propinqua
L. culmorum
L. culmorum forma
epigeii
L. culmorum forma
phragmitis
L. cumana
L. cycadis
L. cynaroccarum
L. cynodontis-dactyli
L. cyperi
L. cypericola
L. daphniphylli
L. dasylirii
L. debeauxii
L. decaisneana
L. dennisiana
L. densa
L. diana
L. dichosciadii
L. dracaenae
L. draconis
L. dryadea
L. dryadea subsp.
lussoniensis
L. dryadis
L. dryophila
L. duplex
L. eichhorniae
L. elaeidis
L. elaeospora

- L. elymi*
L. empetri
L. epicarecta
L. eriobotryae
L. erythrinae
L. eustomoides var.
 punctata
L. faulii
L. feijoae
L. ferruginea
L. fici-elasticae
L. filamentosa
L. foliicola
L. folliculata
L. fraxini
L. frigida
L. fuegiana
L. fuscidula
L. fuscidula forma
 magnolii
L. gaubae
L. georgius-fischeri
L. gigaspora
L. glandulosae
L. glauco-punctata
L. glyceriae
L. glyceriae-plicatae
L. gossypii
L. graminum
L. grandispora
L. gratissima
L. gratissima var. *longispora*
L. guazumae
L. gynerii
L. hardenbergiae
L. hausmanniana
L. hausmanniana var.
 cherleriae
L. hederiae
L. hedericola
L. helicicola
L. heloniaefolia
L. helvetica
L. hemicrypta
L. hermodactyli
L. hesperia
L. heveae
L. honiaraensis
L. huthiana
L. hyperborea
L. hysterioides
L. immunda
L. indepressa
L. indica
L. infernalis
L. insignis
L. insignis forma *airae-cespitosae*
L. iridicola
L. iridigena
L. iridigena var. *typhae*
L. iridis
L. isariphora
L. iwamotoi
L. jahnii
L. janus
L. jubaeae
L. junci
L. juncina forma *macrospora*
L. juniperina
L. kerguelensis
L. kotschyana
L. lacustris
L. larseniana
L. lasioderma
L. lathonia var. *hellborifoetidi*
L. lauri
L. leersiae
L. leersiana
L. licatensis
L. licatensis forma
 rupefortensis
L. lilii
L. lingue
L. livida
L. lobeliae
L. lucilla
L. lucina
L. luzulae
L. maclurae
L. macrochloae
L. macrotheca
L. maculans
L. magnoliae
L. magnusiana
L. major
L. malojensis
L. mandshurica
L. marantae
L. marcyensis
L. marginalis
L. marginata
L. maritima
L. matritensis
L. maydis
L. media
L. melicae
L. mellispora
L. mendozana
L. mertensiae
L. microscopica subsp.
 calami
L. microscopica var. *alpina*
L. mikantiae
L. minima
L. miyakeana
L. molleriana
L. monticola
L. morthieriana
L. moutan
L. mucosa
L. muirensis
L. muricata
L. musae
L. musarum
L. musigena
L. nardi var. *dubiosa*
L. nashi
L. neglecta
L. nervisequa
L. nesodes
L. niessleana
L. nobilis
L. nodorum form sp. *hordei*
L. obtusispora
L. obtusispora forma
 agaves
L. occulta
L. oligothesca
L. ophiopogonis
L. ophiopogonis var.
 graminum
L. orthrosanthi
L. oryzae
L. pachyasca
L. pachythesca
L. pacifica
L. paludosa
L. pampaniniana
L. pandani
L. pandanicola
L. panici
L. paoluccii
L. papulosa
L. paraguariensis
L. parvula
L. parvula var. *iridis-germanicae*
L. passerinii
L. pelargonii
L. penniseticola
L. perforans
L. petri
L. phlogis
L. phoradendri
L. phormii
L. physalidis
L. pilulariae
L. piperis
L. plantaginicola
L. plemeliana
L. pomona
L. portoricensis
L. primulaecola
L. priusheggiana
L. protearum
L. pruni

- L. pruni* forma *plurivora*
L. pterocelastris
L. puccinioides
L. puiggarii
L. pulchra
L. punctillum
L. purpurearum
L. pusilla
L. puttemansii
L. recutita
L. rehmana
L. rehmi
L. rhododendri
L. rivalis
L. rostrata
L. rostrupii
L. rusci
L. rusci forma *fourcroyae*
L. rusci var. *rusci-hypoglossi*
L. ruscicola
L. sabauda
L. sabauda forma *arvaticae*
L. sabuletorum
L. sacchari
L. saccharicola
L. saginata
L. salebricola
L. salicinearum
L. sasae
L. scolecosporarum
L. scriata
L. silenes-acaulis
L. smarodisii
L. smilacis
L. solani
L. sorbi
L. sorghi-arundinacei
L. sparsa
L. sparsa var. *meizospora*
L. spegazzini
L. staticicola
L. stellariae
L. stipae
L. stipae-minor
L. stratiotis
L. striolata var. *caricis-glaucæ*
L. subiculifera
L. substerilis
L. subsecta
L. swertiae
L. sylvatica
L. taichungensis
L. taiwanensis
L. tanacetii
L. taxicola
L. theobromicola
L. thorae
L. thujaccola
- L. tini*
L. tofieldiae
L. tonduzi
L. translucens
L. trifolii-alpestris
L. tritici
L. typharum
L. typharum subsp. *phragmatina*
L. typhicola
L. typhiseda
L. typhiseda forma *sodoloci*
L. uliginosa
L. ulmicola
L. vagans
L. vagans forma *scirpi*
L. valdobbiae
L. vanhoeffeniana
L. variiseptata
L. vectis
L. verwoerdiana
L. vincae
L. vinosa
L. vrieseae
L. weberi
L. williamsii
L. winterei
L. woodrow-wilsonii
L. xerophylli
L. xiphii
L. yulan
L. zaeae
L. zaeae-maydis
L. zeicola
L. zingiberis
- L. eryngii*
L. monticola
L. petiolaris
L. petiolicola
L. phoenicis
L. primulaeacola
L. typhiseda
- Pods
- L. endiusae*
L. eustama forma *leguminosa*
L. impressa
L. lunariae
L. lyndonvillae
- Rachis
- L. culmifraga* forma *poae*
L. eustomoides forma *lolii*
L. sabalicola
L. trochus
- Rhizomes
- L. culmicola* var. *rhizomatum*
L. heterospora
L. littoralis
L. pontiformis
L. rhizomatum
L. vagabunda subsp. *alvarensis*
- Roots
- L. australiensis*
L. capparidis
L. circinans
L. cladii
L. lycii
L. maculans forma *denudata*
L. septovariata
- Runners
- L. cookei*
L. grignonensis
L. haematites
L. nectrioides
L. notarisii
L. pampini
L. pleosporoides
L. rhizomatum
L. rimalis
L. sarmenticia
L. thomasiana
L. vagabunda var. *sarmentii*
L. vinealis
L. vitalbae
- Seeds
- L. albo-punctata*
L. microscopica forma *glyceriae*
L. sequana
L. woroninii
- Sepals
- L. auerswaldii*
L. sepalorum
- Nuts
- L. cacuminispora*
- Paper
- L. fibrincola*
L. papyricola
L. tritici var. *papyricola*
L. typharum subsp. *papyrogena*
- Pedicels
- L. eranthemi*
L. customa
- Peduncles
- L. bryzae*
L. espeletiae
L. francoae
L. lycopodiicola
L. papyri
L. raphidophora
L. scapophila
L. typhiseda
L. vitensis
- Petioles
- L. anemones*
L. cinclidoti

Sheaths

- L. altaica*
L. arenaria
L. avenaria form sp.
triticea
L. cariciphila
L. cattanei
L. cookei
L. culmicola forma *melicae*
L. culmicola var. *hispalensis*
L. culmicola var. *nigrans*
L. culmorum
L. fückelii forma *filamentifera*
L. interspersa
L. korrae
L. lagenoides
L. latebrosa
L. matritensis
L. media
L. monilispora
L. narmari
L. neomaritima
L. nigrans
L. nodorum form sp. *hordei*
L. notarisii
L. pandani
L. rivalis
L. rousseliana
L. sacchari
L. salvinii
L. spartii
L. spegazzini
L. subalpina
L. vaginae
- Sporangia
L. heufleri
- Stems
L. abbreviata
L. acanthi
L. achilleae
L. aconiti
L. aculeorum
L. acuta
L. acuta forma *insignis*
L. acuta forma *urticae*
L. acutispora
L. acutiuscula
L. affinis
L. agminalis
L. agnita
L. agnita subsp. *labens*
L. agnita var. *ambigua*
L. agnita var. *bupleuri*
L. agnita var. *chrysanthemi*
L. agnita var. *erigerontis*
L. agnita var. *major*
L. agnita var. *trifolii*
L. albulae
L. alliariae
- L. allorgei*
L. amphibola
L. anacycli
L. anarrhini
L. andrijevicensis
L. anomala
L. anthelmintica
L. antherici
L. anthostomoides
L. aparines
L. aquilana
L. aquilegiae
L. arabidis
L. argentina
L. artemisiae
L. arthropHYma
L. arunci
L. arvensis
L. asclepiadis
L. asparagi
L. asparagina
L. astericola
L. asteris
L. atropurpurea
L. aucta
L. aulica
L. balcarica
L. ballotae
L. bardanae
L. bellynckii
L. berlesei
L. bluneri
L. bocconiae
L. boucera
L. brachyasca
L. brachysperma
L. brauni
L. bresadolaeana
L. brightonensis
L. brunellae
L. bryophila
L. bubakii
L. buddlejae
L. bulgarica
L. bupleuri
L. caballeri
L. cadubriae
L. caespitosa
L. caespitosa forma *salviae*
L. calvescens
L. camphorata
L. canadensis
L. carduorum
L. carlinoides
L. carneomaculans
L. cassiaeicola
L. castilleiae
L. castillejae
L. caulicola
L. centaureae
L. centrafricana
- L. cephalariai-uralensis*
L. cerastii
L. ceratispora
L. cerei-peruviani
L. cervispora
L. cesatiana
L. chelidonii
L. chrysanthemi
L. cibostii
L. circinans
L. cirricola
L. cladophila
L. clavata
L. clavigera
L. clavispora
L. clivensis
L. clivensis var. *constricta*
L. coleosanthi
L. collinsoniae
L. comatella
L. complanata
L. compositarum
L. compressa
L. concinna
L. conferta
L. congesta
L. coniformis
L. conii
L. coniiigena
L. coniothyrium
L. conoidea
L. conoidea forma *angelicae*
L. conoidea forma *asteris*
L. conoidea forma *macrospora*
L. consessa
L. controversa
L. convallariae
L. caorgica
L. corallorhizae
L. cornuta
L. coronillae
L. corticola
L. corynisporea
L. cosmicola
L. crastophila forma *tofieldiae*
L. cruenta
L. crustacea
L. cucurbitarioides
L. culmicola forma *major*
L. culmifraga var. *bromicola*
L. culmifraga var. *linearis*
L. curta
L. cylindrospora
L. cylindrostoma
L. cynoglossi
L. cynops
L. darkeri

- L. davidii*
L. davisiana
L. dearnessii
L. deficiens
L. delawayi
L. dematiicola
L. dematium
L. demissa
L. depressa
L. derasa forma *alpestris*
L. derasa forma *robusta*
L. derasa var. *franconica*
L. desciscens
L. dianthi
L. diaporthoides
L. digitalis
L. dissiliens
L. dolioloides
L. dolioloides var. *cirsii*
L. dolioloides var. *inops*
L. dolioloides var. *lathyri*
L. dolioloides var. *rhinanthi*
L. doliolum
L. doliolum forma *carlinae-vulgaris*
L. doliolum forma *syndoliola*
L. doliolum var. *angustispora*
L. doliolum var. *cacaliae*
L. doliolum var. *dissimilis*
L. doliolum var. *leouuri*
L. doliolum var. *pachyspora*
L. doliolum var. *pinquicula*
L. doliolum var. *subdisticha*
L. drabae
L. dryadea subsp. *lussoniensis*
L. dryadis
L. dubia
L. dumetorum
L. dumetorum forma *ebuli*
L. dumetorum forma *meliloti*
L. dumetorum var. *conformis*
L. dumetorum var. *coronillae*
L. dumetorum var. *galii-borealis*
L. dumetorum var. *marrubii*
L. dumetorum var. *symphyti*
L. eburnea
L. echiella
L. echii
L. echinella
L. echinops
L. ellisiana
L. elongata
L. endiusae
L. epilobii
L. equiseti
L. equiseticola
L. erigerontis
L. eriophora
L. eryngii
L. ettalensis
L. euphorbiae
L. euphorbiae forma *esulae*
L. euphorbiaecola
L. eutypoides
L. faginea
L. fallaciosa
L. fallax
L. ferruginea
L. ferulicola
L. filiformis
L. fimbriata
L. fumana
L. foeniculacea
L. foeniculacea subsp. *lupina*
L. foeniculi
L. fraseriae
L. frondis
L. fockelii
L. fuegiana
L. fulgida
L. galeobdolonis
L. galeopsidicola
L. galii
L. gallicola
L. gallicola var. *brachyspora*
L. galii-silvatici
L. galiorum
L. galiorum forma *cirsiorum*
L. galiorum forma *gentianae*
L. galiorum subsp. *antirrhini*
L. galiorum var. *gnaphali-ana*
L. galiorum var. *lapsanae*
L. gaultheriae
L. genistae var. *microspora*
L. gigaspora
L. gloeospora
L. gnaphalii
L. grammodes
L. gypsophilae
L. haematites
L. harknessianna
L. helianthemii
L. heliopsidis
L. helminthospora forma *crithmi-maritimi*
L. hemerocallidis
L. hesperidicola
L. hiemalis
L. hirta
L. hollosiana
L. holmii
L. houseana
L. hrubyana
L. hurae
L. hyalospora
L. hyparrheniae
L. hyperici
L. icositana
L. incarcerationata
L. incruenta
L. inculta
L. indica
L. insulana
L. jaceae
L. jacksonensis
L. jacksonii
L. johansonii
L. juncaginearum
L. junici-glauci
L. juncorum
L. kali
L. kalmiae
L. kalmusii
L. kochiana
L. kunzeana
L. lacustris
L. ladina
L. lankeana
L. larseniana
L. lasiosphaerioides
L. lassenensis
L. lathyri
L. lathyrina
L. lecanora
L. leptospora
L. lespedezae
L. lethalis
L. libanotis
L. limosa
L. lindquistii
L. lithophilae
L. lobayensis
L. longchampsi
L. longipedicellata
L. longispora
L. lonicerina
L. lophanthi
L. lupini
L. lupinicola
L. lusitanica
L. lyeiophila
L. lythri

- L. macrospora*
L. macrosporidium
L. maculans
L. maculans var. *typhicola*
L. maderensis
L. malyi
L. maritima
L. marram
L. martagoni
L. massariella var. *disticha*
L. massarioides
L. media
L. medicaginicola
L. medicaginis
L. medicaginum
L. megalospora
L. melanommoides
L. melicae
L. meliloti
L. menthae
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agaves
L. ogilviensis forma *lepidii*
- L. ogilviensis* forma
megalospora
L. ogilviensis forma
myrrhis-odorata
L. ophiopogonis var.
graminum
L. oreophiloides
L. pachythea
L. pampini
L. papyricola
L. parietariae
L. parietariae forma *lamii*
L. perforans
L. perpusilla
L. phaseoli
L. phragmiticola
L. picridis
L. pini
L. pleosporoides
L. polytrichina
L. pratensis
L. priuscheggiana
L. pycnostigma
L. ramalinae
L. rhopalispora
L. richoni
L. rothomagensis
L. roumegueri
L. rubellula
L. rumicis
L. rusci
L. rusci var. *hypophylli*
L. ruscicola
L. ruthenica
L. sabauda
L. saccardiana
L. salebrosa
L. sambuci
L. sapeyensis
L. sarmenticia
L. sarothamni
L. sarraziniana
L. scrophulariae
L. sequana
L. smilacis
L. solidaginis
L. stellariae
L. teuerii
L. therophila
L. thomosiana
L. typharum
L. typharum subsp.
papyrogena
L. typhiseda forma
sodoloci
L. vagabunda forma
abietis
L. vagabunda forma
caulium
L. vagabunda forma
loniceriae
- L. vagabunda* forma
salicis-capreae
L. vagans forma *scirpi*
L. vincae
L. viticola
L. vitis
 French Equatorial Africa
L. heveae
L. septovariata
L. zaeae-maydis
L. zeicola
 Germany
L. achilleae
L. acicola
L. acuta
L. acutiusscula
L. agnita var. *ambigua*
L. agnita var. *chrysanthemi*
L. agnita var. *major*
L. alliariae
L. ammophilae
L. anceps
L. aquilegiae
L. arabidis
L. artemisiae
L. asplenii
L. atropurpurea
L. avenae
L. baggei
L. bardanae
L. bellynckii
L. berleseii
L. caespitosa
L. carduorum
L. circinans
L. clara
L. clivensis
L. coniothyrium
L. contacta
L. corticola
L. culmorum var. *paleicola*
L. cumulata
L. dematiicola
L. densa
L. dolioloides
L. doliolum
L. dumetorum forma
meliloti
L. duplex
L. endiusae
L. epicalamia
L. etalensis
L. fibrincola
L. fimiseda
L. frondis
L. fockelii
L. fuscella var. *sydowiana*
L. galii-silvatici
L. geographicola
L. graminis

- L. graminum*
L. haematites
L. hazslinskyana
L. helianthemii
L. helminthospora
L. hippophaes
L. hirta
L. huthiana
L. hyperici
L. impressa
L. incruenta
L. isariphora
L. juncaginearum
L. juncina
L. koerberi
L. kunzeana
L. lacustris
L. lemaneae
L. leptogiophila
L. limitata
L. littoralis forma
calamagrostidis-
arenariae
L. lolii
L. loniceriae
L. lonicerina
L. maculans
L. malojensis
L. medicaginis
L. medicaginum
L. michotii
L. microscopica
L. microscopica var.
caricis-vulpinae
L. multiseptata
L. nardi
L. niessleana var. *staritzii*
L. nigrans
L. nigrella
L. nigromaculata
L. nitschkei
L. ogilviensis
L. ogilviensis forma
achilleae
L. ogilviensis var.
pleurospermi
L. osculanda
L. papillata
L. penicillus
L. petkovicensis
L. pilulariae
L. planiuscula
L. pontiformis
L. primulana
L. psilospora
L. purpurearum
L. quinta
L. ramsaugiensis
L. recutita
L. rostrupii
- L. rousseliana*
L. salebricola
L. salebroso
L. sanguisorbae
L. saxonica
L. scitula
L. seminuda
L. setulosa
L. sphyridiana
L. staritzii
L. steinii
L. striata
L. submaculans
L. surcolorum
L. sydowiana
L. tanacetii
L. typhae
L. typharum
L. vincae
L. winteri
- Ghana
L. sparganii
- Great Britain
L. abbreviata
L. acorella
L. acuta
L. anarithma
L. arundinacea
L. baeomycearia
L. caninae
L. carduorum
L. cesatiana
L. clara
L. clarkii
L. clivensis
L. complanata
L. cookei
L. dennisiana
L. derasa
L. dioica
L. doliolum
L. duplex
L. echinella
L. epicarecta
L. fluviatilis
L. fuscella
L. glauco-punctata
L. gloeospora
L. graminis
L. hederiae
L. juncina
L. leucomelaria
L. lunariae
L. macrosporidium
L. maculans
L. maritima
L. marram
L. michotii
L. mosana
L. nardi
- L. neomaritima*
L. neottizans
L. niessleana forma *viciae*
L. nigrans
L. norfolcia
L. obiones var. *evolutior*
L. octophragma var. *major*
L. ogilviensis
L. parmeliarum
L. pelagica
L. perpusilla
L. petkovicensis
L. phormii
L. pontiformis
L. raphani
L. rubelloides
L. rusci
L. sabuletorum
L. sepincola
L. tamaricis
L. triglochnicola
L. tritorulosa
L. typharum forma *acori*
L. uliginosa
L. umbilicariae
L. vectis
- Greece
L. ballotae
L. politis
L. sibtorpii
- Greenland
L. algida
L. brachyasca
L. hyperborea
L. macrotheca
L. oxyriae
L. polaris
L. ranunculi
L. stellariae
L. vahlii
L. vanhoeffeniana
- Guadeloupe
L. hurae
L. lycii
- Himalayas
L. rhododendri
- Hungary
L. alliariae
L. anemones
L. antherici
L. aquilegiae
L. arrhenatheri
L. azaleae
L. berleseii
L. bctulina
L. compressa
L. constricta
L. coronillae
L. corticola
L. culmifraga var.
bromicola

- L. culmorum* forma
hungarica
L. cynoglossi
L. cyperi
L. cypericola
L. dematium
L. dianthi
L. doliolum forma
syndoliola
L. dumetorum var.
coronillae
L. echinops
L. equiseticola
L. fumana
L. geasteris
L. gypsophilae
L. hollosii
L. iridis
L. irrepta
L. juniperina
L. lineolaris
L. maritima
L. meliloti
L. muscari
L. onobrychidicola
L. onobrychidis
L. poae var. *agrostidis*
L. pontiformis
L. purpurea
L. raphidophora
L. rubicunda
L. salsolae
L. sinapis
L. stromatoidea
L. superficialis
L. tamaricis
L. ternata
L. thalictricola
L. thalictrina
- Iceland
- L. dryadis*
L. elymi
L. larseniana
L. oligotheca
L. papaveris
- India
- L. abuensis*
L. agaves
L. aquatica
L. capparidicola
L. coorgica
L. cosmicola
L. eriobotryae
L. helianthi
L. hollosiana
L. hyalina
L. indica
L. isocellula
L. lobeliae
L. muchlenbeckiae
- L. nigrans*
L. ocimicola
L. petkovicenses var. *elymi*
L. phoenicis
L. porellae
L. puniciae
L. punjabensis
L. rajasthanensis
L. swertiae
L. zingiberis
- Iran
- L. cycadis*
L. kotschyana
L. shahvarica
L. tolgorensis
- Ireland
- L. advenula*
- Israel
- L. pimpinellae*
- Italy
- L. aconiti*
L. aculeorum
L. acuta
L. advenula
L. aegira
L. aetnensis
L. aglaja
L. agminalis
L. agnita
L. alcides
L. alcides forma *quercina*
L. ampelina
L. amphibola
L. anarithma
L. anarithmoides
L. anthophila
L. anthostomoides
L. apocalypta
L. apogon
L. aquilana
L. arnoldii
L. arrhenatheri var. *italica*
L. arundinacea
L. arvensis
L. asparagi
L. bella
L. bellynckii
L. bornmuelleri
L. borziana
L. brachypodii
L. brachysperma
L. bractearum
L. briosiana
L. bryophila
L. brizae
L. cadubriae
L. camilla
L. camphorata
L. campisilii
L. canadensis
- L. cannabina*
L. capparidis
L. capsularium
L. carduina
L. carpogena
L. carpophila
L. carpophila var.
bractearum
L. cattanei
L. cavariae
L. cerlettii
L. cesatiana
L. chaetostoma
L. cibostii
L. cirricola
L. coniothyrium
L. coniothyrium forma
berberidis
L. conoidea
L. corticola
L. corynispora
L. crastophila
L. crastophila forma
tofieldiae
L. crepini
L. cucurbitae
L. culmicola
L. culmicola forma *major*
L. culmicola var. *minor*
L. culmifraga
L. culmorum
L. cumana
L. cyperina
L. dactylina
L. dasyliirii
L. devasa var. *alpestris*
L. diana
L. dichroa
L. disseminata
L. doliolum
L. dryadea
L. epilobii
L. eustoma
L. eustomella
L. eustomoides
L. faginea
L. fallaciosa
L. fallax
L. fiedlaeri
L. fuscidula
L. galiicola
L. galiicola var. *brachy-*
spora
L. geographicola
L. gibelliana
L. glauco-punctata
L. grammodes
L. grandispora
L. grisea

- L. hausmanniano*
L. hederae
L. helvetica
L. helvetica forma major
L. hendersoniae
L. hermodactyli
L. herpotrichoides
L. heterospora
L. heufleri
L. hiemalis
L. hippophaes
L. hyalospora
L. hydrophila
L. involucralis
L. ischaeni
L. juncicola
L. kochiana
L. lamprocarpi
L. lathonia
L. lathonia var. hellebori-foetidi
L. lathyri
L. lathyrina
L. leersiae
L. leersiana
L. leptospora
L. licatensis
L. lichenicola
L. littoralis
L. littoralis forma calamagrostidis-arenariae
L. livida
L. lucilla
L. lucina
L. luctuosa
L. luzulae
L. maculans
L. magnusiana
L. major
L. mamillula
L. marginalis
L. marginata
L. massariella
L. massariella var. disticha
L. massarioides
L. medicaginis
L. medicaginum
L. melicae
L. meridionalis
L. michotii
L. micropogon
L. microscopica
L. microscopica var. alpina
L. mirandae
L. modesta var. cibostii
L. molluginis
L. monotis
L. montana
L. multiseptata forma alpina
- L. nectrioides*
L. neglecta
L. nigrans
L. nobilis
L. notarisii
L. ogilviensis
L. ogilviensis var. senecionis-cordati
L. ophiopogonis
L. oryzae
L. pampini
L. pandani
L. paoluccii
L. parietariae
L. parvula var. iridis-germanicae
L. passeriniana
L. passerinii
L. patellaeformis
L. peltigerarum
L. penicillus
L. perforans
L. perpusilla
L. petiolicola
L. phytolaccae
L. pinnarum
L. pinnarum var. rachidis
L. platycarpa
L. pomona
L. poterii
L. puccinioides
L. punctiformis
L. pycnostigma var. morbosa
L. pyrenopezizoides
L. ranunculoides
L. recessa
L. rehmi
L. resedae
L. rhizomatum
L. rhododendri
L. rhodophaea
L. rivana
L. rivana var. solorinae
L. rusci
L. rusci forma caulina
L. rusci forma rusci-hypoglossi
L. sacculus
L. salicaria
L. salicinarum
L. solviae
L. salvinii
L. sambuci
L. scirpina
L. scotophila
L. seriata
L. sicula
L. silenes-acaulis
L. sileris
L. socia
- L. sodomaea*
L. spartii
L. spatharum
L. stereocaulorum
L. strictata
L. subarticulata
L. subsecta
L. suffulta
L. sylvatica
L. thalictri
L. torbolensis
L. trichostoma
L. trimera
L. tritici
L. typharum
L. typhicola
L. ulmicola
L. vagabunda
L. vagabunda forma critrilimonii
L. vagabunda var. divergens
L. vagabunda var. sarmenti
L. vaginae
L. valdobbiae
L. vincae
L. vinealis
L. xiphii
L. xylogena
L. yulan
- Ivory Coast
- L. coffeigena var. longirostrata*
L. petri
L. sorgho-arundinacei
- Jamaica
- L. peltigerea*
- Japan
- L. akagiensis*
L. apios
L. apios-fortunei
L. asperellae
L. bambusae
L. buddlejae
L. cinnamomi
L. hottai
L. inecola
L. japonica
L. lelebae
L. lilicola
L. minoensis
L. mume
L. nandinae
L. nashi
L. oryzicola
L. phyllostachydis
L. sasacola
L. sasae
L. thujaecola
L. tigrisoides
L. zizannivora

Java	<i>L. wegeliniana</i> forma <i>teucrui</i>	<i>L. chusqueae</i> <i>L. dryadeca</i> subsp. <i>lussoniensis</i>
<i>L. sacchari</i>		
<i>L. trochus</i>	Madeira Archipelago	<i>L. erythrinae</i>
Kenya	<i>L. maderensis</i>	<i>L. marantae</i>
<i>L. bicolor</i>	Malaysia	<i>L. oryzina</i>
<i>L. nodorum</i>	<i>L. scabiens</i>	<i>L. panici</i>
<i>L. tritici</i>	Mauritania	<i>L. simillima</i>
Kerguelen Island	<i>L. tompkinsii</i>	<i>L. tungurahuenensis</i>
<i>L. kerguelensis</i>	Morocco	
Korea	<i>L. elaudi</i>	Poland
<i>L. iwamotoi</i>	<i>L. gratissima</i>	<i>L. alliariae</i>
Libya	<i>L. gratissima</i> var. <i>longispora</i>	<i>L. caricina</i>
<i>L. pampaniniana</i>	<i>L. maheui</i>	<i>L. cerei-peruviani</i>
Luxembourg	Netherlands	<i>L. coniformis</i>
<i>L. caespitosa</i> forma	<i>L. ammophilae</i>	<i>L. crustacea</i>
<i>salviae</i>	<i>L. cariciphila</i>	<i>L. lycopodina</i>
<i>L. cerastii</i>	<i>L. desciscens</i>	<i>L. norvegica</i>
<i>L. culmorum</i> var. <i>flavobrunnea</i>	<i>L. donacina</i>	<i>L. opizii</i>
<i>L. dolioloides</i> var. <i>lathyrifolia</i>	<i>L. galiicola</i>	<i>L. sowerbyi</i>
<i>L. dolioloides</i> var. <i>rhinanthifolia</i>	<i>L. genistae</i>	<i>L. trifolii-alpestris</i>
<i>L. dumetorum</i> var. <i>coniformis</i>	<i>L. hemicrypta</i>	<i>L. triglochinis</i>
<i>L. dumetorum</i> var. <i>dolichospora</i>	<i>L. junci</i>	<i>L. typhiseda</i>
<i>L. dumetorum</i> var. <i>symphytifolia</i>	<i>L. periclymeni</i>	Portugal
<i>L. echiella</i>	<i>L. phlogis</i>	<i>L. algarbiensis</i>
<i>L. echii</i>	<i>L. pseudo-diaporthe</i>	<i>L. almeidae</i>
<i>L. epicalamia</i> var. <i>pleosporoides</i>	<i>L. rhopographoides</i>	<i>L. almeidana</i>
<i>L. euphorbiae</i> forma <i>esulae</i>	<i>L. rousseliana</i>	<i>L. aloes</i>
<i>L. fuscella</i> var. <i>hippophaeae</i>	<i>L. stratiotis</i>	<i>L. anacycli</i>
<i>L. galeobdolonis</i>	New Caledonia	<i>L. anarrhini</i>
<i>L. hemerocallidis</i>	<i>L. australis</i>	<i>L. arbuti</i>
<i>L. iridigena</i> var. <i>typhae</i>	New Zealand	<i>L. arecae</i>
<i>L. junci</i>	<i>L. martinianum</i>	<i>L. buxina</i>
<i>L. longispora</i>	<i>L. reidiana</i>	<i>L. cisticola</i>
<i>L. luxemburgensis</i> var. <i>dolichospora</i>	<i>L. typharum</i>	<i>L. cocoes</i>
<i>L. microthyrioides</i>	Nigeria	<i>L. congesta</i>
<i>L. monilispora</i> forma <i>triglochinis</i>	<i>L. elaeidis</i>	<i>L. conimbricensis</i>
<i>L. oxyspora</i>	Norway	<i>L. coniothyrium</i>
<i>L. paludosa</i>	<i>L. andromedae</i>	<i>L. convallariae</i> forma <i>dracaenae</i>
<i>L. petiolaris</i>	<i>L. caricinella</i>	<i>L. convallariae</i> forma <i>rusci</i>
<i>L. phytumatis</i> forma <i>knautiae</i>	<i>L. consobrina</i>	<i>L. daphnes</i>
<i>L. planiuscula</i> forma <i>succisae</i>	<i>L. dryadis</i>	<i>L. demissa</i>
<i>L. plectrospora</i>	<i>L. dumetorum</i> var. <i>galii-borealis</i>	<i>L. diaporthoides</i>
<i>L. proliferae</i>	<i>L. hyperborea</i>	<i>L. dolioloides</i>
<i>L. rivalis</i>	<i>L. insignis</i>	<i>L. dracaenae</i>
<i>L. silvestris</i>	<i>L. junciseda</i>	<i>L. foeniculi</i>
<i>L. sparsa</i> var. <i>meizospora</i>	<i>L. quadriseptata</i>	<i>L. holmii</i>
<i>L. trematostoma</i>	<i>L. rostrupii</i>	<i>L. infernalis</i>
<i>L. trifolii</i>	<i>L. sepalorum</i>	<i>L. junci-acuti</i>
<i>L. vitalbae</i> var. <i>sarmenticola</i>	<i>L. vagans</i>	<i>L. juncina</i>
	Pakistan	<i>L. lavandulae</i>
	<i>L. abutilonis</i>	<i>L. lusitanica</i>
	<i>L. ahmadii</i>	<i>L. maculans</i>
	<i>L. depressa</i>	<i>L. michotii</i>
	<i>L. euphorbiicola</i>	<i>L. molleriana</i>
	<i>L. punjabensis</i>	<i>L. nervisequa</i>
	<i>L. runicicola</i>	<i>L. papillosa</i>
	<i>L. runicis</i>	<i>L. rusci</i>
	Philippines	<i>L. rusci</i> var. <i>fourcroyae</i>
	<i>L. ambiens</i>	<i>L. schoenocauli</i>
	<i>L. amphiloa</i>	<i>L. scolecosporarum</i>

- L. thuemeniana*
L. torrendii
L. translucens
L. vagabunda forma
daphnes
- Puerto Rico
L. portoricensis
- Romania
L. acutispora
L. alexandrinis
L. derasa var. *franconica*
L. dobrogica
L. doliolum forma
carlinae-vulgaris
L. doliolum var. *dissimilis*
L. doliolum var. *leonuri*
L. fückelii
L. fuisispora var. *erysimi*
L. glyceriae-plicatae
L. hazslinszkii
L. pomona
L. ranunculi-polyanthemi
L. salviae forma *minor*
L. woroninii
- São Tomé
L. fungicola
L. musarum
- Scandinavia
L. dolioloides
L. inarenis
- Senegal
L. senegalensis
- Sierra Leone
L. penniseticola
- Solomon Islands
L. honiaraensis
- South Africa
L. africana
L. caffra
L. cervispora
L. collumiae
L. owaniae
L. protearum
L. pterocelastri
L. verwoerdiana
- Spain
L. agnita var. *trifolii*
L. caballeroi
L. carlinoides
L. catalaunica
L. cavanillesii
L. ceballosi
L. cirsi-arvensis
L. cistina
L. colcastiae
L. culmicola var. *hispanensis*
L. cynosuri
L. dolioloides
L. draconis
L. fuscidula forma
magnolii
- L. glyceriae*
L. grassulariae
L. hispanica
L. junci-glauci
L. martagoni
L. matritensis
L. octophragmia
L. riofrioi
L. riparia
L. ruscicola forma
cladodiicola
L. sabauda forma *arvati-*
cae
L. semelina
L. staticicola
L. striolata
L. variabilis
L. vitensis
- Sri Lanka
L. depressa
L. lankana
L. nesodes
L. smilacis
L. tornatospora
- St. Thomas Island
L. musarum
- Sweden
L. associata
L. bellynckii
L. caricis
L. cladophila
L. compressa
L. culmifraga
L. culmifraga forma
minuscula
L. culmorum
L. doliolum
L. doliolum var. *subdisti-*
cha
L. duplex
L. fückelii
L. hendersoniae
L. hirta
L. jaceae
L. lasiosphaerioides
L. macrotheca
L. microscopica
L. nardi
L. nigrans
L. picastra
L. sepincola
L. solani
L. solanicola
L. vagabunda subsp.
alvarensis
- Switzerland
L. agnita var. *major*
L. albulae
L. blumeri
L. brauni
L. caricicola
- L. caricis*
L. centaureae
L. cladii
L. compositarum
L. cornuta
L. corticola
L. crucheti
L. culmorum
L. didymellae-vincetoxici
L. epicalamia
L. epilobii
L. eustoma
L. franconica
L. fückelii
L. galii
L. galiorum var. *gentianae*
L. hippophaes
L. johansonii
L. juncicola
L. lacustris
L. ladina
L. libanotis
L. linearis
L. lycopodina
L. maculans
L. morthieriana
L. nanae
L. napelli
L. nardi
L. nigrans
L. nodorum
L. ocellata
L. ogilviensis
L. ophioboloides
L. palustris
L. parvula
L. petkovicensis
L. phacae
L. phaeospora
L. phycumatis
L. pini
L. planiuscula
L. platychorae
L. pleurospora
L. polygonati
L. primulaecola
L. recutita
L. rimalis
L. rimicola
L. robusta
L. rousseliana
L. rumicis
L. septemcellulata
L. sowerbyi
L. sparsa
L. submodesta
L. sylvatica
L. taminensis
L. tenuis
L. thurgoviensis

- L. tofieldiae*
L. triglochynicola
L. trollii
L. typhicola
L. valesiaca
L. viciae
L. vitalbae
L. volkartiana
L. wegeliniana
- Taiwan
- L. coicis*
L. kuangfuensis
L. musae
L. musigena
L. pandanicola
L. taichungensis
L. taiwanensis
- Tanzania
- L. elaeidicola*
- Tunisia
- L. macrochloae*
L. rothomagensis var.
artemisiae
L. stipae-minor
- Turkey
- L. davisiana*
L. dodonaeae
L. melicae
L. sylvatica
- U.S.A.
- L. acuta*
L. agnita subsp. *labens*
L. agnita var. *erigerontis*
L. anomala
L. anthelmintica
L. arctalaskana
L. arthrophyta
L. arunci
L. asclepiadis
L. asparagi
L. associata
L. astericola
L. asteris
L. aulica
L. avenaria
L. avicenniae
L. beaumontii
L. berleseii
L. bicuspadata
L. bocconiae
L. borealis
L. borealis var. *populi*
L. boucera
L. brightonensis
L. byssincola
L. cacuminispora
L. californica
L. caricis
L. cassiaeicola
L. castilleiae
L. castillejae
- L. castrensis*
L. caulicola
L. ceanathi
L. ceratispora
L. cercocarpi
L. chrysanthemi
L. clavicarpa
L. clavigera
L. clavisporea
L. chivensis var. *constricta*
L. coleosanthi
L. collinsoniae
L. comatella
L. complanata
L. compressa
L. concentrica
L. concinna
L. consessa
L. consimilis
L. corallorhizae
L. culmorum
L. darkeri
L. defodiens
L. discors
L. dissiliens
L. distributa
L. doliolum
L. drechsleri
L. dryophila
L. ellisiana
L. elongata
L. elymi
L. erigerontis
L. eriophora
L. eumorpha
L. eustoma
L. eustoma forma *legumi-*
nasa
L. eutypoides
L. exocarpogena
L. faulii
L. filamentosa
L. filiformis
L. fimbriata
L. foeniculacea subsp.
lupina
L. folliculata var. *oxyspora*
L. fraseriae
L. fraxini
L. fuckelii
L. fulgida
L. galiorum var. *gnaphali-*
ana
L. galligena
L. georgius-fischeri
L. halima
L. hamamelidis
L. harknessianna
L. helianthi
L. heliopsisidis
L. heloniaefolia
- L. hendersoniae*
L. hesperia
L. hiemalis
L. houseana
L. hysterioides
L. incarcerata
L. inquinans
L. inspersa
L. interspersa
L. janus
L. kalmiae
L. korrae
L. larseniana
L. lasioderma
L. lassenensis
L. latebroso
L. leiostega
L. lethalis
L. leucoplaca
L. longipedicellata
L. lophanthi
L. luctuosa
L. lupini
L. lupinicola
L. lyciophila
L. lycopodiicola
L. lycopodina
L. lyndonvillae
L. lythri
L. macluriae
L. major
L. mareyensis
L. marina
L. maydis
L. mellispora
L. mertensiae
L. mesoedema
L. modestula
L. monticola
L. muehlenbergiae
L. muricata
L. muirensis
L. myricae
L. neomaritima
L. nigrans
L. nigricans var. *grindeliae*
L. occidentalis
L. octoseptata
L. odora
L. ogilviensis
L. olericola
L. olivacea
L. olivaeospora
L. onagrae
L. opuntiae
L. orae-maris
L. orthogramma
L. pacifica
L. papyricola
L. perplexa
L. phaseolorum

- L. phormicola*
L. physalidis
L. physostegiae
L. platanicola
L. platypus
L. plurisepta
L. pseudohleria
L. puteana
L. quamoclidii
L. ramulicola
L. rhoina
L. rostrata
L. rubrotincta
L. sabalicola
L. sabaligera
L. sambucina
L. scapophila
L. shastensis
L. sieversiae
L. simmonsii
L. solheimii
L. sorgho-arundinacei
L. sorghophila
L. spartinae
L. sporoboli
L. squamata
L. stericola
L. sticta
L. stictoides
L. stictostoma
L. straminis
L. subcaespitosa
L. subcompressa
L. subconica
L. subcutanea
L. sublanosa
L. substerilis
L. taxicola
L. tenera
L. tephrosiae
L. tetonensis
L. tini
L. torulispora
L. trimerioides
L. tritici var. *papyricola*
L. tumefaciens
L. typharum
L. utahensis
L. variegata
L. variiseptata
L. veratri
L. virginica
L. viridella
L. wehmeyeri
L. xerophylli
L. zcae
L. zizaniaccola
- U.S.S.R.
- L. abutilonis*
L. aceris
L. achuopodis
- L. agnita* var. *bupleuri*
L. alhagii
L. alopecuri
L. ammophile
L. ammothamni
L. amorphae
L. atraphaxidis
L. atriplicis
L. balcarica
L. bataticola
L. batumensis
L. betulina
L. biebersteinii
L. buddlejae
L. calligoni
L. camelliae-japonicae
L. camphorosmae
L. caricis-vulpinae
L. casta
L. cephalariae-uralensis
L. cerei-peruviani
L. chamaeropis
L. chenopodii-albi
L. chochrjakovii
L. clerodendri
L. coniothyrium var. *foliicola*
L. consocians
L. culmorum
L. culmorum forma *epigeii*
L. culmorum forma *phragmitis*
L. culmorum var. *hungarica*
L. daphniphylli
L. davidii
L. dianthi
L. doliolum var. *cacaliae*
L. drabae
L. dubia
L. equiseti
L. feijoae
L. ferruginca
L. ferulicola
L. foliicola
L. frigida
L. ginkgo
L. glandulosae
L. gossypii
L. haloxyli
L. hierochloae
L. holmii
L. hordei
L. hydrangeae
L. hypericola
L. lespedezae
L. lithophilae
L. lonicerae
L. magnoliae
L. media
- L. medicaginicola*
L. metasequoiae
L. moutan
L. myrti
L. myrticola
L. ornithogali
L. periclymeni var. *tatarica*
L. pleurospora
L. polini
L. pruni
L. pruni var. *plurivora*
L. sanguisorbae
L. scutati
L. secalina
L. sibirica
L. smarodsii
L. sophorae
L. sorbi
L. stipae
L. tanacetii
L. taurica
L. tumefaciens
L. typharum
L. usneae
L. vrieseae
L. weberi
L. woodrow-wilsonii
- Uganda
- L. hyparrheniae*
L. penniseti
L. trichopterygis
- Venezuela
- L. cryptica*
L. espeletiae
L. jahmii
L. orthrosanthi
- Yugoslavia
- L. altaica*
L. andrijevicensis
L. bresadolaeana
L. corrugans
L. fückelii
L. galiorum subsp. *antirrhini*
L. hesperidicola
L. insulana
L. malyi
L. nicolai
L. pachyasca
L. pachytheca
L. petkovicensis
L. plemeliana
L. rehmana
L. sclavonica
L. serbica
L. subalpina
L. subsimilis
- Zaire
- L. canephorae*
L. cynodontis-dactyli

Appendix 1. Taxonomic Division of *Leptosphaeria*

P.A. SACCARDO (1883, 1891)

Parasites on dicotyledons.

Stem/branch inhabiting.

Leaf inhabiting.

Fruit and flower inhabiting.

Parasites on monocotyledons.

Parasites on acotyledons.

Species of unknown or doubtful spore color.

F. v. HÖHNEL (1918c)

Scleropleella F. v. Höhnel. Species with typical pseudosphaerialean centra.

Leptosphaeria sensu F. v. Höhnel. Species with typical dothidealean centra.

Nodulosphaeria G.L. Rabenhorst. Species with typical sphaerialean centra.

E. MÜLLER (1950)

Scleropleella. This section, with few exceptions, corresponds to Höhnel's (1918a) generic concept. Generally it includes smaller forms with relatively few egg-shaped or broadly club-shaped asci that are embedded in a more or less well-developed cellular tissue. The ostiole usually is poorly developed.

Eu-Leptosphaeria. This section contains the largest number of species of the four sections. The inner structure corresponds to a higher (more evolved) stage than *Scleropleella*; the asci are more numerous and more slender; the paraphysoids are clearly thread-like, although in some forms a cellular arrangement is still noticeable; the ostiole is conspicuous, and early in development is filled with hyaline cells that only later give way to the pore. Spores are thinner than in *Massariosphaeria*, and are often fusiform, and they have a mucilaginous coat.

Massariosphaeria. This section is composed of forms whose spores (approaching the *Wettsteinina* type) are relatively broad, possess a distinct mucilaginous coat when young, and reach maturity relatively late (at least in part), sometimes only outside the asci. Structure of the fruiting bodies corre-

sponds to that of section *Eu-Leptosphaeria*. These forms may be regarded as transitional to *Massaria*.

Nodulosphaeria. This section is composed of the most highly evolved forms, designated by F. v. Höhnel as "sphaerial." They are distinguished from all others by the ostiole, which is coated with thread-like, periphyses-like hyphae that usually diverge toward the middle of the mouth-channel and toward the "scheitel." In the region of the "scheitel," these periphyses are often replaced by brown bristles. Peridia of fruiting bodies usually consist of several layers of elongate, sometimes almost rectangular cells. The numerous, usually cylindrical-clavate asci are surrounded by thread-like paraphysoids.

A. MUNK (1957)

Eu-Leptosphaeria. Pseudothecia sclerotoid, thickest at the sides. Asci slender, numerous. Ostiole, generally without a periphysoid structure.

Para-Leptosphaeria. Pseudothecia middle-sized, with a uniform, thin peridium; generally no periphysoid structure in the papilla. Interascicular tissue paraphysoid. This section contains a large and heterogenous group of species.

Scleropleella. Pseudothecia small; interascicular tissue obsolete.

Nodulosphaeria. Pseudothecia with a complicated structure of the papilla. It is covered with brown, spiny hairs that extend into the ostiole. Periphysoid tissue is distinct.

L. HOLM (1957)

Leptosphaeria sensu L. Holm. Species similar to the type of the genus *Leptosphaeria doliolum*; they occur principally on dicotyledons.

Nodulosphaeria G.L. Rabenhorst. Species similar to the *Nodulosphaeria* of Müller; they occur on dicotyledons, especially on Compositae.

Phaeosphaeria I. Miyake. Species that correspond essentially to the *Scleropleella* section of Müller (1950) and Munk (1957) and that occur on monocotyledons.

Entodesmium H. Riess. Species with elongated ascospores; they intergrade with *Ophiobolus* and occur on legumes.

R.A. SHOEMAKER (1984)

Leptosphaeria. Circumscribed *Leptosphaeria* in a broad concept of Holm and Müller; however, many segregate genera were accepted. The genus always lacks erect setae on ascomata. The walls of the ascocarps often have scleroplectenchyma at least near the beak base. The physes are broad, septate with or without guttules and cytoplasmic accumulations and frequently with an external gelatinous coating. Asci are biseriate or, rarely, uniseriate. Ascospores are fusiform, cylindric or clavate, 3-septate or more, and the first formed septum is constricted and near the middle. These

ascospores frequently have globose, terminal appendages that are rarely entirely sheathed. No woody parts of dicotyledonous plants are the usual substrates.

M.E. BARR (1987a, 1987b)

Leptosphaeriaceae. Established the family Leptosphaeriaceae based on *Leptosphaeria*, but also included *Curreya*, *Didymolepta*, *Heptameria*, and *Ophiobolus*. The family was segregated from the Pleosporaceae because of the coelomycetous rather than the hyphomycetous anamorphs and because of the narrow, thin-walled asci. It differs from the Phaeosphaeriaceae in having conoid and applanate or obpyriform or spheroid ascomata, whose walls are scleroplectenchymatic.

Appendix 2. Genera Historically Allied to *Leptosphaeria*

Bricookea M.E. Barr, Mycotaxon. An International Journal Designed to Expedite Publication of Research on Taxonomy & Nomenclature of Fungi & Lichens, Ithaca, New York 15:346. 1982. Type species: *Bricookea sepalorium* (J.S. Vleugel) M.E. Barr. Family: Phaeosphaeriaceae. Ascomata: Clustered, immersed, subepidermal, separate or as locules in crustose stromatic tissues, globose, radiate arrangement of cells of peridium. Asci: Bitunicate, oblong, short-stalked, numerous, basal. Ascospores: Fusiform to narrowly obovoid, 3-septate, hyaline. Anamorph: Unknown. Remarks: Barr (1982) erected this genus for a species of *Leptosphaeria* described from inflorescences of *Juncus* and considers it to be related to *Phaeosphaeria*.

Chaetomastia (P.A. Saccardo) A.N. Berlese, Icones Fungorum Omnium Hucusque Cognitorum ad usum Sylloges Saccardianae Adcommodatae 1:38. 1891. Lectotype species: *Chaetomastia hirtula* (P.A. Karsten) A.N. Berlese. Family: Dacampiaceae. Ascomata: Immersed-subepidermal, becoming erumpent, scattered or clustered, obpyriform or ovoid to globose; apex wide, blunt, ostiole rounded or slit-like; wall pseudoparenchymatous, cells externally darkened and thickened in upper regions. Asci: Bitunicate, clavate or cylindrical, 4-, 6-, or 8-spored. Ascospores: Biseriate or uniseriate; obovoid elongate, 3- to 11-septate; cell above first septum enlarged; wall wide, dark, smooth or verruculose; yellowish brown becoming dark brown or reddish brown. Anamorph: Coelomycetous where known; conidia hyaline or brown, 1- to 2-celled (*Aposphaeria*-like or *Coniothyrium*-like). Remarks: This genus is distinguished by the obpyriform or obovoid ascomata with a wide apical papilla, peridium of small dark cells that is widest and 3-layered in the upper region, and by dark asymmetric phragmospores (Barr 1989).

Chaetoplea (P.A. Saccardo) F.E. Clements, in F.E. Clements and C.L. Shear, The Genera of Fungi, pp. 74, 275. 1931. \equiv *Pyrenophora* subgen. *Chaetoplea* P.A. Saccardo, Sylloge

Fungorum Omnium Hucusque Cognitorum Digessit P.A. Saccardo 2:279. 1883. Type species: *Chaetoplea calvescens* (E.M. Fries ex J. Desmazières) F.E. Clements & C.L. Shear. \equiv *Sphaeria calvescens* E.M. Fries, Scleromyceti Sueciae. Collegit, Digessit et Evulgavit, No. 401. Unpublished? \equiv *Pyrenophora calvescens* (E.M. Fries ex J. Desmazières) P.A. Saccardo, Sylloge Fungorum Omnium Hucusque Cognitorum Digessit P.A. Saccardo 2:279. 1883. Family: Phaeosphaeriaceae. Ascomata: Seated on a subiculum, globose or depressed globose, dark brown to black, subepidermal becoming superficial, wall composed of polygonal cells, surrounded by stiff dark hyphae. Asci: Bitunicate, numerous, cylindrical, short-stalked with thickened apical walls, 8-spored. Ascospores: Fusoid-ellipsoid, straight or inequilateral with three transverse septa and with longitudinal septa, yellowish brown or dark brown, smooth or finely verruculose. Remarks: This genus has only recently been accepted by Barr (1981, 1987b), who placed it in the Phaeosphaeriaceae. The type species, *Chaetoplea calvescens*, has been placed in *Pleospora* by Webster and Lucas (1959), Wehmeyer (1961), and Shoemaker (1968). Crivelli (1983) transferred *Chaetoplea calvescens* to *Leptosphaeria*, and Eriksson and Hawksworth (1986) synonymized *Chaetoplea* with *Leptosphaeria*.

Curreya P.A. Saccardo, Sylloge Fungorum Omnium Hucusque Cognitorum Digessit P.A. Saccardo 2:651. 1883. Type species: *Curreya conorum* (L. Fuckel) P.A. Saccardo. Family: Leptosphaeriaceae. Ascomata: Scattered, immersed-subepidermal, depressed globose; wall scleroplectenchymatic, melanized black, surface of textura angularis; beak absent. Asci: Many, bitunicate, cylindrical-clavate, thick-walled in apical region, short-stalked, containing eight ascospores. Ascospores: Obovate, constricted at septa, slightly asymmetrical, with one or more enlarged cells, 7-septate or more, with longitudinal septa, most cells smooth-walled, surrounded by a gel layer.

Remarks: The genus is included in the Leptosphaeriaceae by Barr (1987b) and differs from *Leptosphaeria* in having longitudinally septate ascospores.

Didymolepta A. Munk, Dansk Botanisk Arkiv, Kjøbenhavn 15(2):110. 1953. Type species: *Didymolepta winteriana* (P.A. Saccardo) A. Munk. Family: Leptosphaeriaceae. Ascospores: Scattered, conic, glabrous, black; wall of scleroplectenchymatic cells melanized black; beak absent. Asci: Bitunicate, subcylindric, sessile, thick-walled, with eight ascospores. Ascospores: 1-septate, hyaline. Anamorph: Unknown. Remarks: This genus has been placed in the Leptosphaeriaceae by Barr (1987b), and it differs from other genera in the family by having 1-septate ascospores.

Entodesmium H. Riess, Hedwigia, Dresden 1:28. 1854. Type species: *Entodesmium rude* H. Riess. Family: Phaeosphaeriaceae? Ascospores: Scattered or clustered, more or less lageniform, slightly hairy; beaks very long. Asci: Many, bitunicate, cylindrical to narrowly clavate, short-stalked. Ascospores: Cylindrical, 4-septate or more, with a clearly delimited apical portion and bipolar appendages. Anamorph: Unknown. Remarks: This genus was recognized by Holm (1957) for a small group of *Leptosphaeria* species found on Leguminosae.

Graphyllum F.E. Clements, Studies in the Vegetation of the State. Nebraska University. Botanical Survey. Report on Recent Collections, Lincoln 5:6. 1901. Type species: *Graphyllum chloes* F.E. Clements. Family: Phaeosphaeriaceae. Ascospores: Flattened-globose, finally collapsing-peizoid, with more or less dark brown, radiating hyphal tomentum about the base. Asci: Bitunicate, stout-clavate, thick-walled. Ascospores: Strongly flattened in one plane, fusoid-ellipsoid to clavate-ellipsoid, with a single vertical septum running through the central cells but not through the end cells in face view, yellow-brown to dark red-brown. Anamorph: Unknown. Remarks: *Graphyllum* is the earliest name for species formally placed in *Platyspora* L.E. Wehmeyer and *Comoclathris* F.E. Clements (Barr 1987b).

Heptameria H. Rehm & F. v. Thümen, Instituto. Revista Científica e Litteraria, Coimbra, Series 2, 27:252. 1879. Type species: *Heptameria elegans* H. Rehm & F. v. Thümen. Family: Leptosphaeriaceae. Ascospores: Clustered, immersed-subepidermal, becoming erumpent, subglobose to conical, rough-surfaced, black, short papillate. Asci: Bitunicate, clavate, short-stalked, with eight ascospores. Ascospores: Fusiform, 7-septate or more, with dark

central portion having longitudinal septa, brown. Anamorph: Pycnidial with hyaline, oblong, 1-celled conidia. Remarks: This genus was included in the Leptosphaeriaceae by Barr (1987b), and it differs from *Leptosphaeria* by having ascospores with longitudinal septa in the enlarged central cells. Jacewski (1894) considered that *Heptameria* could be interpreted as a section of *Leptosphaeria*, but the study of Lucas and Sutton (1971) indicates that the genus is distinct.

Herpotrichia L. Fuckel, Fungi Rhenani Exsiccati A Leopoldo Fuckel Collecti, Fascicle 22, No. 2771. Anno 1868. Type species: *Herpotrichia rubi* L. Fuckel. Family: Lophiostomataceae. Ascospores: Globose to conic, immersed, becoming erumpent, or superficial on a subiculum, tomentose. Asci: Bitunicate, cylindrical to clavate. Ascospores: Fusiform to ellipsoidal, 1- to 3-septate, hyaline to dull or dark brown, usually with gel coating elongated beyond spore apices. Anamorph: *Coelomycetous*, *Pyrenochaeta*, or *Phoma*-like. Remarks: Differs from *Leptosphaeria* in the tomentose ascocarps on a subiculum and ascospores that can be 1-septate.

Kalmusia G. Niessl v. Mayendorf, Verhandlungen des Naturforschenden Vereins in Brünn 10:204. 1872. Type species: *Kalmusia ebuli* G. Niessl v. Mayendorf. Family: Phaeosphaeriaceae. Ascospores: Subglobose, immersed in an effuse stroma. Asci: Bitunicate, clavate, long stipitate. Ascospores: Oblong, curved, 3-septate, brown. Anamorph: Unknown. Remarks: This genus differs from *Leptosphaeria* in having a stroma and long, stipitate asci.

Keissleriella F. v. Höhnelt, Sitzungsberichte der Akademie der Wissenschaften in Wien, Mathematisch-naturwissenschaftliche Klasse, Abt. 1, 128:582. 1919. Type species: *Keissleriella aesculi* (F. v. Höhnelt) F. v. Höhnelt. Family: Melanommataceae. Anamorphs: *Ascochyta* M.A. Libert and *Dendrophoma* P.A. Saccardo. Remarks: Holm (1957) accepted the genus *Trichometasphaeria* A. Munk but stated that there may be earlier generic names for those Ascomycetes with setose pseudothecia placed in the Massarinaceae by Munk (1956), for example, *Keissleriella* F. v. Höhnelt. This later genus differed in having 1-septate ascospores vs. several septate in *Trichometasphaeria*. Bose (1961) united the two genera under the earlier name *Keissleriella* after observing variation in ascospore septation in *Keissleriella aesculi*.

Lidophia J. Walker & B.C. Sutton, Transactions of the British Mycological Society, London 62:232. 1974. Type species: *Lidophia*

graminis (P.A. Saccardo) J. Walker & B.C. Sutton. = *Dilophia* P.A. Saccardo, 1883, non *Dilophia* T. Thomas, 1953 (Cruciferae). Family: Leptosphaeriaceae. Ascomata: Embedded in a stroma, spherical. Asci: Bitunicate, cylindrical, apically thickened. Ascospores: Narrowly fusiform, widest at the middle and tapering gradually into an elongated fine thread at each end, ~15-septate, yellow, breaking into equal spore parts at maturity. Anamorph: Unknown, but *Dilophospora* is found in same stroma. Remarks: The ascospores of *Lidophia* were considered indistinct from those of *Leptosphaeria* (Müller 1950; v. Arx and Müller 1975); however, Walker (1980) considers *Lidophia* distinct from *Leptosphaeria* and close to *Ophiobolus* in that the ascospores readily break into half-spores at the central septum. *Lidophia* differs from *Ophiobolus* in lacking an enlarged central cell in the ascospore.

Lophiostoma V. Cesati & G. de Notaris, nom. cons., Commentario della Società Crittogamologica Italiana, Milan 1:219. 1863. Type species: *Lophiostoma macrostoma* (H.J. Tode:E.M. Fries) V. Cesati & G. de Notaris. Based on *Sphaeria macrostoma* H.J. Tode:E.M. Fries. Family: Lophiostomataceae. Ascomata: Immersed, subepidermal, globose to subglobose, glabrous, cells of outer wall melanized black, beak laterally compressed, clypeate. Asci: Bitunicate, many, cylindro-clavate, wall thin but thick at apex, short-stalked, eight-spored. Ascospores: Obliquely uniseriate, ellipsoidal to narrowly clavate, brown, 3- to 7-phragmoseptate, 1 to 2 longitudinal septa present. Anamorph: Unnamed pycnidial anamorph (Chesters and Bell 1970). Remarks: *Lophiostoma* differs from *Leptosphaeria* in having ascomata, with laterally compressed papillae (Chesters and Bell 1970).

Massaria G. de Notaris, Nuovo Giornale Botanico Italiano e Bollettino della Società Botanica Italiana, Firenze 1:333. 1844. Type species: *Massaria inquinans* (H.J. Tode:E.M. Fries) G. de Notaris. Basionym: *Sphaeria inquinans* H.J. Tode:E.M. Fries. Family: Massariaceae. Ascomata: Immersed in pseudostromatic tissue or a clypeus becoming erumpent or superficial with bases remaining immersed. Asci: Bitunicate, subcylindrical with a short, stout stipe, ocular region low and broad surrounded by a refractive ring. Ascospores: Large, distoseptate, and 3-septate. Anamorph: None reported (Müller 1979). Remarks: The ascospores of *Massaria* are generally larger than in *Leptosphaeria*. Each ascus has an

apical cytoplasmic protrusion surrounded by a refractive ring and usually four ascospores at maturity. The ascospores are larger than those in *Leptosphaeria* and have a thick episore and a mucilaginous coat (Barr 1979).

Massarina P.A. Saccardo, Sylloge Fungorum Omnium Hucusque Cognitorum Digessit P.A. Saccardo 2:153. 1883. Lectotype species: *Massarina eburnea* (L.R. Tulasne & C. Tulasne) P.A. Saccardo. Family: Lophiostomataceae. Ascomata: Clustered, immersed, subepidermal, depressed, glabrous, cells of outer ascocarp wall melanized brown, wall tissue of textura prismatica in face view, beak absent, ostiole circular. Asci: Many, bitunicate, cylindrical to cylindrical-clavate, short-stalked, wall thick at apex. Ascospores: Biseriate, oblong-fusoid, 3-septate, slightly constricted at the septa, symmetrical, hyaline to subhyaline, frequently surrounded by a mucous sheath, which may be evanescent. Anamorphs: *Anguillospora* C.T. Ingold, *Ceratophoma* F. v. Höhnelt, *Coniothyrium* A.C. Corda, *Diplodia* E.M. Fries, *Microsphaeropsis* F. v. Höhnelt, and *Stagonospora* P.A. Saccardo. Remarks: *Massarina* is allied with *Leptosphaeria* species having hyaline ascospores (*Metasphaeria* sensu P.A. Saccardo, 1883) but differs in formation of a clypeus and in the ascospores, which form their secondary septa late in development (Munk 1956; Bose 1961; Müller 1979).

Massariosphaeria (E. Müller) P.G. Crivelli, Dissertation Eidgenössischen Technischen Hochschule, Zürich, No. 7318:141. 1983. Type species: *Massariosphaeria phaeospora* (E. Müller) P.G. Crivelli. Family: Dacampiaceae. Ascomata: Scattered, globose to conic, immersed, subcuticular to subepidermal, becoming erumpent, beak papillate, conical to longitudinally compressed with a circular or slit-like ostiole. Asci: Bitunicate, numerous, clavate-cylindrical, short-stalked, thick-walled. Ascospores: Phragmoseptate, sometimes with longitudinal septa, hyaline to brown, fusiform to ellipsoid or clavate. Anamorph: *Aposphaeria*-like, *Phoma*-like. Remarks: Müller (1950) segregated species of *Leptosphaeria* with large, thick-walled ascospores with thick gelatinous sheaths into the subgenus *Massariosphaeria*. Crivelli (1983) elevated the subgenus to genus and expanded it to include dictyosporous species. It appears to be a natural grouping with easily distinguished features.

Melanomma T. Nitschke ex L. Fuckel, Symbolae Mycologicae, p. 159. 1870. Lectotype species: *Melanomma pulvis-pyris* (C.H.

Persoon:E.M. Fries) L. Fuckel. Family: Melanommataceae. Anamorphs: *Aposphaeria* P.A. Saccardo and *Pseudospiropes* M.B. Ellis. Remarks: Holm (1957) maintained *Melanomma* for certain lignicolous species that appear to form a unit based on the scleroplectenchymatic walls of the ascocarps. The ascospores are 3-septate, ellipsoidal or frequently cuneiform to nearly clavate and uniformly brown. *Melanomma* was further subdivided into four groups based on variability and differentiation of the ascocarp wall. A number of species on dead herbaceous stems usually placed in *Leptosphaeria* were transferred to *Melanomma*. Holm (1957) considered *Melanomma* to be closely related to *Leptosphaeria*, but Samuels and Müller (1978) believed that *Melanomma* should be merged with *Trematosphaeria* (Chesters 1938).

Montagnula A.N. Berlese, Icones Fungorum Omnium Hucusque Cognitorum ad usum Sylloges Saccardianae Adcommodatae 2:68. 1896. Type species: *Montagnula infernalis* (G. Niessl v. Mayendorf) P.G. Crivelli. Family: Phaeosphaeriaceae. Ascomata: With or without a clypeus or surrounded by a secondary stromatic development, globose. Asci: Bitunicate, clavate, with filiform basal stalk having a claw-like base, wall thickened. Ascospores: Fusoid, mostly 3-, rarely 4-, 5-, or 7-septate, dark red-brown to opaque, wall often finely tuberculate, vertical walls in two central cells, symmetric, constricted at the central septum. Anamorph: Unknown. Remarks: Considered a subgenus of *Pleospora* by Wehmeyer (1961), *Montagnula* was raised to generic rank by Crivelli (1983). Characteristics distinguishing the group are the tapered or elongate stipitate base of the ascus, the usually very dark pigmentation of the spore wall (which is often tuberculate-roughened), the tardy insertion of vulgaris-like septa in the central cells, the tendency to form a thick ascostromatic wall, and a surrounding clypeus or stroma.

Nodulosphaeria G.L. Rabenhorst, Klotzschii Herbarium Vivum Mycologicum Sistens Fungorum Per Totam Germaniam Crescentium Collectionem Perfectam, Dresden, Edition II, Century 8, No. 725. Anno. 1858. Type species: *Nodulosphaeria derasa* (M.J. Berkeley & C.E. Broome) L. Holm. Family: Phaeosphaeriaceae. Ascomata: Clustered, immersed-subepidermal, globose, setose, wall pseudoparenchymatic, melanized brown, of textura angularis, beak short, with paraphyses. Asci: Many, bitunicate, cylindro-clavate, short-stalked, containing eight ascospores. Ascospores: Fusiform,

constricted at mid-septum, 8- to 10-septate, with one enlarged cell, with bipolar appendages, pale brownish yellow. Anamorph: Unknown. Remarks: Once considered a subgenus of *Leptosphaeria*, *Nodulosphaeria* was reinstated by Holm (1957). This genus can be distinguished from *Leptosphaeria* by the setose ascomata composed of pseudoparenchyma.

Ophiobolus H. Riess, Hedwigia, Dresden 1:27-28. 1854. Type species: *Ophiobolus disseminans* H. Riess. Family: Leptosphaeriaceae. Ascomata: Scattered to clustered, immersed, becoming erumpent, pyriform, black, glabrous, outer wall of textura globulosa melanized brown, inner wall of textura prismatica, wall pseudoparenchymatic. Asci: Bitunicate, numerous, long-cylindrical to clavate, thick-walled at tips, short-stalked, 4- to 8-spored. Ascospores: In a single fascicle, yellow or brown, scoliosporous, multiseptate, often with one or more enlarged cells, sometimes with one or more gelatinous, terminal, globose appendages. Anamorph: Unknown. Remarks: *Ophiobolus* integrates with *Leptosphaeria* subgenus or section *Nodulosphaeria* (G.L. Rabenhorst sensu F. v. Höhnell) E. Müller, and authors do not agree on the precise limit between *Ophiobolus* and subgenus *Nodulosphaeria*. In general, the ascospores of subgenus *Nodulosphaeria* are only slightly curved or straight and shorter than those in *Ophiobolus*, and dark periphyses line the ostiole in subgenus *Nodulosphaeria* (Shoemaker 1976, Walker 1980).

Ophiosphaerella C.L. Spegazzini, Anales del Museo Nacional de Historia Natural de Buenos Aires 19(Series 3, 12):401. 1909. Type species: *Ophiosphaerella graminicola* C.L. Spegazzini. Family: Phaeosphaeriaceae. Ascomata: Scattered to clustered, immersed, subepidermal, globose, glabrous, wall of textura angularis in face view, beak short, papillate, bluntly conical with periphyses. Asci: Bitunicate, long, cylindric, in a dense basal layer. Ascospores: Filiform (scoliosporous), phragmoseptate, brown, lacking gelatinous sheaths. Anamorph: Unknown. Remarks: A genus close to *Ophiobolus* H. Riess *sensu stricto* and *Phaeosphaeria* l. Miyake, it is characterized by scoliosporous, brown, septate ascospores and occurs on Gramineae and Cyperaceae.

Paraphaeosphaeria O. Eriksson, Arkiv för Botanik, Uppsala, Stockholm, Series 2, 6:405. 1967. Type species: *Paraphaeosphaeria michotii* (G.D. Westendorp) O. Eriksson. Family: Phaeosphaeriaceae. Ascomata: Scattered, intraepidermal, depressed globose to globose, without prominent beak. Asci: Bitunicate,

numerous, cylindrical, short-stalked. Ascospores: Clavate to cylindrical, 2- to 9-septate, first-formed septum subtending an enlarged cell, echinulate to rarely smooth, with a thick, gelatinous sheath. Anamorph: *Coniothyrium* A.C.J. Corda. Remarks: *Paraphaeosphaeria* is a segregate of *Leptosphaeria* resembling *Phaeosphaeria*, but differs in having ascospores with more septa and *Coniothyrium* anamorphs. In *Phaeosphaeria*, the anamorphs belong to *Hendersonia* P.A. Saccardo and *Phaeoseptoria* C.L. Spegazzini (Eriksson 1967).

Phaeosphaeria I. Miyake, Botanical Magazine, Tokyo 23:93. 1909; Journal of the College of Agriculture, Imperial University of Tokyo 2:246. 1910. Type species: *Phaeosphaeria oryzae* I. Miyake. Family: Phaeosphaeriaceae. Ascumata: Superficial, globose, glabrous, wall pseudoparenchymatic, thin. Asci: Many, bitunicate, cylindro-clavate, containing eight ascospores. Ascospores: Fusiform to cylindrical, 3-septate, yellowish brown, one cell clearly inflated. Anamorph: Coelomycetous, *Phyllosticta/Hendersonia*. Remarks: Ascospores of species in this genus are very similar to those of *Leptosphaeria* species. *Phaeosphaeria* species are distinguished by small thin-walled, pseudoparenchymatic ascumata, and by their occurrence mostly on monocots (Shoemaker and Babcock 1989).

Platystoma V. Trevisan, Bulletin. Société R. de Botanique de Belgique, Bruxelles 16:16. 1877. Type species: *Platystoma compressum* (C.H. Persoon:E.M. Fries) V. Trevisan. = *Sphaeria compressa* C.H. Persoon:E.M. Fries. Family: Platystomaceae. Ascumata: Clustered, immersed-subepidermal, globose, glabrous, outer cells melanized brown, short papillate, papilla conical with periphyses, ostiole slit-like. Asci: Many, bitunicate, cylindric-clavate, short-stalked. Ascospores: Fusiform to subcylindric, constricted at septa, 5- to 6-septate, with one enlarged cell, brown. Anamorph: Unknown. Remarks: This genus differs from *Leptosphaeria* in having trabeculate rather than cellular pseudoparaphyses and a slit-like ostiole.

Pleospora G.L. Rabenhorst ex V. Cesati & G. de Notaris, nom. cons., Commentario della Società Crittogamologica Italiana, Milan 1:217. 1863. Type species: *Pleospora herbarum* (C.H. Persoon:E.M. Fries) G.L. Rabenhorst type cons. Family: Pleosporaceae. Ascumata: Perithecioid, immersed-erumpent, peridium relatively wide, composed of pseudoparenchyma. Asci: Bitunicate, clavate or oblong, short-stalked, endotunica wide. Ascospores: Elliptical,

yellow-brown, with transverse and longitudinal septa, with gelatinous sheath. Anamorphs: *Alternaria* C.G. Nees v. Esenbeck, *Dendryphion* K.F.W. Wallroth, and *Stemphylium* K.F.W. Wallroth. Remarks: *Pleospora* can be separated from *Leptosphaeria* by ascospore septation and anamorphs. Some species included in *Leptosphaeria* have ascospores with longitudinal septa, and these species must be examined carefully for ascumatal features and cultured for anamorphic states (Müller 1951, Wehmeyer 1961).

Pyrenophora E.M. Fries, Summa Vegetabilium Scandinaviae, Seu Enumeratio, Systematica et Critica, Plantarum tum Cotyledonearum, Quam Nemeorum Inter Mare Occidentale Et Album, Inter Eidoram et Nordkop, Hactenus Lectorum, una Cum Singulae Distributione Geographica, pp. 397-398. 1849. Type species: *Pyrenophora phaeocomes* (G.L. Rabenhorst:E.M. Fries) E.M. Fries. Family: Pyrenophoraceae. Ascumata: Immersed to erumpent, medium to large, usually setose or bearing conidiophores. Asci: Bitunicate, few, basal, clavate, oblong or cylindric. Ascospores: Ellipsoidal, broader above the middle, muriform, yellowish-brown, sheathed. Anamorph: *Drechslera* R.A. Shoemaker. Remarks: *Pyrenophora* is closely related to *Pleospora* and differs from *Leptosphaeria* in having large, muriform ascospores with gelatinous sheaths. The genus is nomenclaturally sound with the conservation of *Ceuthospora* R.K. Greville, 1826, typified by *Ceuthospora lauri* (R.K. Greville) R.K. Greville vs. *Ceuthospora* E.M. Fries, 1825, typified by *Ceuthospora phaeocomes* (J.F. Rebertschich:E.M. Fries) E.M. Fries (Shoemaker 1961, Ammon 1963, Barr 1972, Sutton 1972).

Rebertschichia P.A. Karsten, Fungi Fenniae Exsiccati, Century 9, No. 881. Anno. 1869; Mycologia Fennica, p. 14. 1873. Type species: *Rebertschichia pomiformis* P.A. Karsten. Family: Tubeufiaceae. Ascumata: Erumpent, globose, roughened with protruding cells and hyphae, pseudoparenchymatic, outer cells melanized black, beak absent. Asci: Many, bitunicate, cylindric-clavate. Ascospores: Obovate, vinaceous brown 4- to 5-septate, with basal appendage. Anamorph: Unknown. Remarks: Müller (1950) considered the centrum type of this genus to be similar to that of a typical *Leptosphaeria*. It differs from *Leptosphaeria* in the ascospores, which have a hyaline basal appendage (Dennis 1978, Barr 1980).

Sulcispora R.A. Shoemaker, Canadian Journal of Botany, Ottawa 67:1594. 1989. Type

species: *Sulcispora pleurospora* (G. Niessl v. Mayendorf) R.A. Shoemaker. Family: Phacosphaeriaceae. Ascomata: Immersed becoming erumpent, pyriform to globose, smooth. Beak: Composed of brown rectangular cells, the ostiole lacking periphyses. Ascoma wall: Brown pseudoparenchymatic, rectangular cells. Asci: Few, bitunicate, cylindrical, 8-spored. Ascospores: Tetraseriate, fusiform, straight, 5- to 6-septate, constricted at first septum, reddish-brown, longitudinally sulcate, sheathed.

Trematosphaeria L. Fuckel, *Symbolae Mycologicae*, pp. 161–162. 1870. Type species: *Trematosphaeria pertusa* (C.H. Persoon; E.M. Fries) L. Fuckel. Family: Platystomaceae. Ascomata: Superficial to partially immersed, globose to conic, peridium pseudoparenchymatic, melanized black, *textura angularis* in face view, beak short, papillate. Asci: Bitunicate, cylindrical-clavate, short-stalked, containing eight ascospores. Ascospores: Fusiform, constricted at mid-septum, 3-septate, brown. Anamorph: Unknown. Remarks: Petrak (1923) considered the structural features of *Trematosphaeria* to correspond to those of

Leptosphaeria, and he included wood-inhabiting *Leptosphaeria*-like species. Boise (1984) redefined the genus by the presence of trabeculate pseudoparaphyses and included it in the Platystomaceae in the Melanommatales.

Trichometasphaeria A. Munk, *Dansk Botanisk Arkiv*, Kjøbenhavn 15(2):135. 1953. Type species: *Trichometasphaeria dianthi* (E. Rostrup) A. Munk. [= *Trichometasphaeria gloeospora* (M.J. Berkeley & F. Currey) L. Holm]. Family: Lophiostomataceae. Ascomata: Globose, subepidermal, with ostiole bearing brown setae. Asci: Bitunicate, clavate to cylindrical. Ascospores: Hyaline, fusiform to elliptical, 4- to 6-septate. Anamorph: Unknown. Remarks: This genus is similar to *Keissleriella*, but it differs in having several septate spores versus 1-septate spores in *Keissleriella*. Bose (1961) united the two genera under the earlier name, *Keissleriella*, after observing variation in ascospore septation in *Keissleriella aesculi*. Barr (1987b) accepts both genera and places each of them in a different order.

Appendix 3. Synonyms of *Leptosphaeria*

- Ampullina* L. Quélet (1875). Type: *Ampullina acuta* = *Leptosphaeria acuta* (v. Arx and Müller 1975).
- Baumiella* P.C. Hennings in H. Baum (1903). Type species: *Baumiella caespitosa* P. Hennings in H. Baum, Kunene-Sambesi Expedition, Berlin, p. 165. 1903; = *Leptosphaeria baumii* J.A. v. Arx & E. Müller (1975) nom. nov., non *Leptosphaeria caespitosa* G. Niessl v. Mayendorf.
- Bilimbiospora* B. Auerswald in G.L. Rabenhorst (1860). Nomina generica rejicienda by conservation of *Leptosphaeria* (Greuter et al. 1988).
- Chaetoplea* (P.A. Saccardo) F.E. Clements in F.E. Clements & C.L. Shear (1931). = *Leptosphaeria* (Eriksson & Hawksworth 1986).
- Chitonospora* E.C. Bommer, M.H. Rousseau, & P.A. Saccardo in P.A. Saccardo (1891). = *Leptosphaeria* (Müller 1950).
- Dendroleptosphaeria* M. de Sousa da Camara (1932). A possible synonym of *Leptosphaeria* (Eriksson & Hawksworth 1986).
- Dothideopsella* F. v. Höhnelt (1915). = *Leptosphaeria* (v. Arx & Müller 1975).
- Exilispora* L.R. Tehon & E.Y. Daniels (1927). Type species: *Exilispora plurisepta* L.R. Tehon & E.Y. Daniels, Mycologia, Lancaster, Pennsylvania 19:112. 1927; = *Leptosphaeria plurisepta* (L.R. Tehon & E.Y. Daniels) J.A. v. Arx & E. Müller (v. Arx & Müller 1975).
- Humboldtina* C.E. Chardon & R.A. Toro (1934). = *Leptosphaeria* (Eriksson & Hawksworth 1986).
- Leptosporopsis* F. v. Höhnelt (1920). = *Leptosphaeria* (Eriksson & Hawksworth 1986).
- Macrobasis* K. Starbäck (1893). = *Leptosphaeria* (Petraik and Sydow 1923, Müller 1950).
- Metasphaeria* P.A. Saccardo (1883). Nomen ambiguum. = *Leptosphaeria* (Dothideales) (v. Arx and Müller 1975); a segregate of *Leptosphaeria* comprising the hyaline-spored species, otherwise as in *Leptosphaeria* (Petraik 1923, Müller 1950). However, the genus contains both unitunicate and bitunicate Ascomycetes (Barr 1976).
- Mycopryrenula* E.A. Vainio (1921). = *Leptosphaeria* (Müller 1950), but considered a good genus by Hawksworth et al. (1983).
- Mycotodea* W. Kirschstein (1936). According to Petraik (1940). *Mycotodea* is a synonym of *Scleroplella* and thus *Leptosphaeria* according to E. Müller (1950); = *Leptosphaeria* (Dothideales) (v. Arx and Müller 1975).
- Myriocarpium* H.F. Bonorden (1864). = *Leptosphaeria* (Eriksson & Hawksworth 1986).
- Nodulosphaeria* G.L. Rabenhorst (1858). Nomina generica rejicienda by the conservation of *Leptosphaeria* (Greuter 1988).
- Phaeoderris* (P.A. Saccardo) F. v. Höhnelt (1907b). = *Leptosphaeria* (v. Arx and Müller 1975).
- Phyllophtharmaria* (J. Muller Argov) A. Zahlbruckner in A. Engler & K. Prantl (1905). A questionable synonym of *Leptosphaeria* (Eriksson and Hawksworth 1986).
- Pocosphaeria* (P.A. Saccardo) A.N. Berlese (1892). = *Leptosphaeria* (Müller 1950, v. Arx and Müller 1975). Represents *Leptosphaeria* species with a bristly peridium.
- Saccothecium* E.M. Fries (1835). = *Pringsheimia* S. Schulzer v. Müggenburg in S. Schulzer v. Müggenburg, A. Kanitz, and J.A. Knapp (1866). Placed in the Dothideales (Holm 1975); = *Massaria* G. de Notaris (1844) (Pyrenulales) (Barr 1979).
- Sclerodothis* F. v. Höhnelt (1918a). Based on hyaline spores and therefore identical with *Metasphaeria*, which is a synonym of *Leptosphaeria* (v. Arx & Müller 1975).
- Scleroplella* F. v. Höhnelt (1918a). = *Leptosphaeria* (v. Arx & Müller 1975).
- Scleroplella* D. McAlpine (1902) (Dothideales) (Barr 1972); considered a good section or subgenus of *Leptosphaeria* by Müller (1950); species in this group form transitional taxa within *Leptosphaeria*.
- Syncarpella* F. v. Theissen & H. Sydow (1915). = *Leptosphaeria* (v. Arx and Müller 1975). Accepted by Barr 1987b.

Appendix 4. Anamorphs of *Leptosphaeria*

- Ascochyta* M.A. Libert (Coelomycete). Connection: *Leptosphaeria pratensis* P.A. Saccardo & P.A. Briard [= *Ascochyta meliloti* (W. Trelease) J.J. Davis]. Source: Kendrick and DiCosmo 1979. Conidiogenesis: Phialidic with periclinal thickenings of apex of phialide. Conidia: Hyaline, 1- or, rarely, 3-septate. Comments: Other anamorphs reported for *Leptosphaeria pratensis* P.A. Saccardo & P.A. Briard are *Phoma meliloti* A. Allescher and *Stagonospora meliloti* (W.G. Lasch) F. Petrak, both Coelomycetes (Lucas and Webster 1967).
- Ascochyula* (A.A. Potebnia) H. Diedicke [= *Pseudodiplodia* (P.A. Karsten) P.A. Saccardo] (Coelomycete). Connection: *Leptosphaeria obiones* (H.M. Crouan & P.L. Crouan) P.A. Saccardo (= *Ascochyula obiones* H. Diedicke). Source: Grove 1935 (by association). Conidiogenesis: Phialidic with periclinal thickening of apex of phialide. Conidia: Phaeodidymospores.
- Asteromella* G. Passerini & F. v. Thümen (Coelomycete). Connection: *Leptosphaeria artemisiae* (L. Fuckel) B. Auerswald (= *Asteromella artemisiae* E. Müller). Source: Müller 1950, Lucas and Webster 1967. Conidiogenesis: Phialidic with periclinal thickening of apex of phialide. Conidia: Hyaloamersospores.
- Camarosporium* S. Schulzer v. Muggenbarg (Coelomycete). Connection: *Leptosphaeria maculans* (J. Desmazières) V. Cesati & G. de Notaris [= *Camarosporium affine* (P.A. Saccardo) E.C. Bommer & M.H. Rousseau] (Coelomycete). Source: Müller and Tomašević 1957; Connection: *Leptosphaeria millefolii* (L. Fuckel) G. Niessl v. Mayendorf (= *Camarosporium* sp.). Source: Müller and Tomašević 1957; Connection: *Leptosphaeria ogilviensis* (M.J. Berkeley & C.E. Broome) V. Cesati & G. de Notaris (= *Camarosporium* sp.). Source: Müller and Tomašević 1957; Connection: *Leptosphaeria orthosanthi* E. Müller (= *Camarosporium* sp.). Source: Müller and Dennis 1965; Conidiogenesis: Anellidic. Conidia: Phaeodictyospores.
- Cladosporium* J.H. Link (Hyphomycete). Connection: *Leptosphaeria ladina* E. Müller (= *Cladosporium ladium* E. Müller). Source: Müller 1950. Conidiogenesis: Holoblastic, sympodial. Conidia: Brown, o-pluriseptate. Comments: Considered a culture contaminant rather than an anamorph (Kendrick and DiCosmo 1979).
- Coniothyrium* (A.C.J. Corda) (Coelomycete). Connection: *Leptosphaeria bondari* A.A. Bitancourt & A.E. Jenkins (= *Coniothyrium* sp.). Source: Wehmeyer 1975; Connection: *Leptosphaeria coniothyrium* (L. Fuckel) P.A. Saccardo (= *Coniothyrium fuckelii* P.A. Saccardo). Source: Zeller 1927, Punithalingam 1980; Connection: *Leptosphaeria faullii* G.D. Darker (= *Coniothyrium faullii* G.D. Darker). Source: Darker 1964, Wehmeyer 1975; Connection: *Leptosphaeria nichotii* (G.D. Westendorp) P.A. Saccardo (= *Paraphaeosphaeria* O. Eriksson; = *Coniothyrium scirpi* J.W. Trail). Source: Wehmeyer 1975; Sivanesan 1984; Connection: *Leptosphaeria obiones* (H.M. Crouan & P.L. Crouan) P.A. Saccardo (= *Coniothyrium obiones* H. Diedicke). Source: Grove 1935; Connection: *Leptosphaeria perichymeni* C.A. Oudemans (= *Coniothyrium* sp.). Source: Wehmeyer 1975; Connection: *Leptosphaeria spartinae* J.B. Ellis & B.M. Everhart (= *Coniothyrium* sp.). Source: Lucas and Webster 1967; Conidiogenesis: Anellidic. Conidia: Phaeoamersospores, phaeodidymospores.
- Diplodina* G.D. Westendorp (Coelomycete). Connection: *Leptosphaeria mareyiensis* (C.H. Peck) P.A. Saccardo (= *Diplodina* sp.). Source: Lucas and Webster 1967. Conidiogenesis: Phialidic, periclinal thickening of apex of phialide, eustomatic. Conidia: Hyaline, 0- to 2-septate.
- Hendersonia* M.J. Berkeley. Nomina generica rejicienda. [= *Stagonospora* (P.A. Saccardo) P.A. Saccardo] (Coelomycete).
- Leptophoma* F. v. Höhnelt (= *Phoma* P.A. Saccardo) (Coelomycete).
- Microdiplodia* A. Allescher (Coelomycete). Connection: *Leptosphaeria obtusispora* C.L. Spetzgini [= *Microdiplodia henriquesii* (F.

- v. Thümen) F. Petrak & H. Sydow]. Source: Lucas 1963. Conidiogenesis: Unknown in *Microdiplodia henriquesii* (F. v. Thümen) F. Petrak & H. Sydow. Conidia: Phaeodidymospores.
- Nakataea* K. Hara (Hyphomycete). Connection: *Leptosphaeria salvinii* A. Cattaneo (= *Nakataea sigmoidea* K. Hara). Source: Ellis 1971. Conidiogenesis: Holoblastic, sympodial. Conidia: 3-septate, pale brown.
- Pestalotia* G. de Notaris (Coelomycete). Connection: *Leptosphaeria honiaraensis* T. Matsushima (= *Pestalotia* sp.). Source: Matsushima 1971. Conidiogenesis: Anellidic. Conidia: Phaeophragmospores with appendages. Comments: *Leptosphaeria honiaraensis* may belong in *Pestalosphaeria* M.E. Barr (Amphisphaeriaceae) (Kendrick and DiCosmo 1979).
- Pestalotiopsis* R.L. Steyaert (Coelomycete). Connection: *Leptosphaeria elaeidis* C. Booth & J.S. Robertson. Source: Booth and Robertson 1961. Conidiogenesis: Holoblastic, anellidic. Conidia: Phaeophragmospores with appendages.
- Phaeoseptoria* C.L. Spegazzini (Coelomycete). Connection: *Leptosphaeria culmifraga* (E.M. Fries: E.M. Fries) V. Cesati & G. de Notaris (= *Phaeoseptoria* sp.). Source: Wehmeyer 1975; Connection: *Leptosphaeria fückelii* G. Niessl v. Mayendorf (= *Phaeoseptoria* sp.). Source: Webster and Hudson 1957, Sivanesan 1984; Connection: *Leptosphaeria lactuosa* G. Niessl v. Mayendorf (= *Phaeoseptoria* sp.). Source: Webster and Hudson 1957, Sivanesan 1984; Connection: *Leptosphaeria macrospora* (L. Fuckel) F. v. Thümen (= *Phaeoseptoria* sp.). Source: Lucas and Webster 1967; Connection: *Leptosphaeria microscopica* P.A. Karsten [= *Phaeoseptoria airae* (W.B. Grove) R. Sprague]. Source: Sivanesan 1984; Connection: *Leptosphaeria nigrans* (M.R. Roberge) V. Cesati & G. de Notaris (= *Phaeoseptoria* sp.). Source: Hughes 1949, Sivanesan 1984; Conidiogenesis: Holoblastic. Conidia: Phaeophragmospores.
- Phoma* P.A. Saccardo (Coelomycete). Connection: *Leptosphaeria acuta* L. Fuckel (= *Phoma acuta* L. Fuckel). Source: Grove 1935; Müller and Tomašević 1957; Connection: *Leptosphaeria agnita* (J. Desmazières) V. Cesati & G. de Notaris (= *Phoma* sp.). Source: Lucas and Webster 1967, Sivanesan 1984; Connection: *Leptosphaeria albopunctata* (G.D. Westendorp) P.A. Saccardo (= *Phoma* sp.). Source: Sivanesan 1984; Connection: *Leptosphaeria conferta* G. Niessl v. Mayendorf ex P.A. Saccardo (= *Phoma* sp.). Source: Lucas 1963, Sivanesan 1984; Connection: *Leptosphaeria congesta* M.T. Lucas (= *Phoma* sp.). Source: Lucas 1963; Connection: *Leptosphaeria cruenta* P.A. Saccardo (= *Phoma sanguinolenta* E. Rostrup). Source: Grove 1935; Connection: *Leptosphaeria doliolum* (C.H. Persoon: E.M. Fries) subsp. *doliolum* var. *doliolum* V. Cesati & G. de Notaris (= *Phoma hoehnelii* H.A. Van Kersteren subsp. *hoehnelii* var. *urticae* G.H. Boerema & H.A. Van Kersteren). Source: Lucas and Webster 1967, Boerema 1976; Connection: *Leptosphaeria dumetorum* G. Niessl v. Mayendorf (= *Phoma* sp.). Source: Lucas and Webster 1967; Connection: *Leptosphaeria haematites* M.R. Roberge ex J. Desmazières) G. Niessl v. Mayendorf (= *Phoma* sp.). Source: Lucas and Webster 1967, Sivanesan 1984; Connection: *Leptosphaeria libanotis* (L. Fuckel) G. Niessl v. Mayendorf (= *Phoma* sp.). Source: Lucas and Webster 1967, Sivanesan 1984; Connection: *Leptosphaeria lindquistii* M.J. Frezzi (= *Phoma macdonaldii* G.H. Boerema). Source: Sivanesan 1984; Connection: *Leptosphaeria maculans* (J. Desmazières) V. Cesati & G. de Notaris [= *Phoma lingam* (H.J. Tode: E.M. Fries)]. Source: Müller and Tomašević 1957, Sivanesan 1984; Connection: *Leptosphaeria millefolii* (L. Fuckel) G. Niessl v. Mayendorf (= *Phoma* sp.). Source: Müller and Tomašević 1957; Connection: *Leptosphaeria ogilviensis* (M.J. Berkeley & C.E. Broome) V. Cesati & G. de Notaris (= *Phoma* sp.). Source: Müller 1971; Connection: *Leptosphaeria pontiformis* (L. Fuckel) P.A. Saccardo (= *Phoma* sp.). Source: Webster and Hudson 1957, Wehmeyer 1975; Connection: *Leptosphaeria purpurea* H. Rehm (= *Phoma sanguinolenta* W.B. Grove). Source: Lucas and Webster 1967, Sivanesan 1984; Connection: *Leptosphaeria sacchari* H.J. Van Breda De Haan (= *Phoma* sp.; as *Phyllosticta* sp.). Source: Hudson 1960; Connection: *Leptosphaeria solani* L.G. Romell (= *Phoma* sp.). Source: Lucas and Webster 1967; Connection: *Leptosphaeria spartinae* J.B. Ellis & B.M. Everhart (= *Phoma* sp.). Source: Sivanesan 1984; Connection: *Leptosphaeria submaculans* L. Holm (= *Phoma* sp.). Source: Lucas and Webster 1967; Connection: *Leptosphaeria thomasiana* P.A. Karsten (= *Phoma* sp.). Source: Zeller 1927 (by association), Lucas and Webster 1967 (unnamed); Connection: *Leptosphaeria typhicola* P.A. Karsten (= *Phoma* sp.). Source: Lucas and Webster 1967 (unnamed), Sivanesan 1984; Conidiogenesis: Phialidic with periclinal thickening of apex of phialide. Conidia: Phaeoamero-spores.

Scolecosporiella F. Petrak (Coelomycete).

Connection: *Leptosphaeria macrospora* (L. Fuckel) F. v. Thümen [= *Scolecosporiella bernardiana* (P.A. Saccardo) A. Sivanesan]. Source: Sivanesan 1984; Connection: *Leptosphaeria typharum* (J. Desmazières) P.A. Karsten [= *Scolecosporiella typhae* (C.A. Oudemans) F. Petrak]. Source: Sivanesan 1984; Conidiogenesis: Holoblastic. Conidia: Pale brown, 3- to many-septate, cylindrical.

Septoria P.A. Saccardo (Coelomycete).

Connection: *Leptosphaeria avenaria* G.F. Weber (= *Septoria avenae* B. Frank). Source: Grove 1935, Sivanesan 1984; Connection: *Leptosphaeria maydis* G.L. Stout (= *Septoria zea* G.L. Stout). Source: Stout 1930 (by association); Connection: *Leptosphaeria nodorum* E. Müller [= *Septoria nodorum* (M.J. Berkeley) M.J. Berkeley]. Source: Lucas and Webster 1967, Sivanesan 1984; Connection: *Leptosphaeria phlogis* C.A. Oudemans (= *Septoria phlogis* P.A. Saccardo & C.L. Spegazzini). Source: Grove 1935 (by association); Connection: *Leptosphaeria sorbi* A.L. Jaczewski (= *Septoria sorbi* W.G. Lasch). Source: Grove 1935 (by association); Conidiogenesis: Three types of conidiogenesis have been found for the pathogenic species of *Septoria* studied thus far. They are (1) holoblastic, sympodial, (2) simple holoblastic, and (3) phialidic with periclinal thickening of the apex of the phialide. Conidiogenesis has not been determined for any of the *Septoria* anamorphs of *Leptosphaeria*. Conidia: Hyaline, multiseptate, filiform.

Stagonospora (P.A. Saccardo) P.A. Saccardo

(Coelomycete). Connection: *Leptosphaeria anemones* L. Hollós (= *Stagonospora anemones* N.T. Patouillard). Source: Sivanesan 1984; Connection: *Leptosphaeria arundinaceae* P.A. Saccardo (= *Stagonospora*

vexata P.A. Saccardo). Source: Grove 1935 (by association); Connection: *Leptosphaeria bicolor* D.L. Hawksworth, W. Kaiser & B.N. Ndimande (= *Stagonospora* sp.). Source: Kaiser et al. 1979; Connection: *Leptosphaeria cistina* M.J. de Urries y Azara (= *Stagonospora* sp.; as *Hendersonia cisti* M. de Sousa da Camara). Source: Lucas 1968; Connection: *Leptosphaeria dumetorum* G. Niessl v. Mayendorf (= *Stagonospora* sp.; as *Hendersonia* sp.). Source: Lucas and Webster 1967, Sivanesan 1984; Connection: *Leptosphaeria eustomoides* P.A. Saccardo (= *Stagonospora* sp.; as *Hendersonia* sp.). Source: Webster and Hudson 1957; Connection: *Leptosphaeria gigaspora* G. Niessl v. Mayendorf (= *Stagonospora gigaspora* P.A. Saccardo). Source: Grove 1935 (by association); Connection: *Leptosphaeria libanotis* (L. Fuckel) G. Niessl v. Mayendorf (= *Stagonospora* sp.; as *Hendersonia* sp.). Source: Wehmeyer 1975; Connection: *Leptosphaeria polygonati* E. Müller & M. Tomašević (= *Stagonospora* sp.; as *Hendersonia* sp.). Source: Müller and Tomašević 1957; Connection: *Leptosphaeria pontiformis* (L. Fuckel) P.A. Saccardo (= *Stagonospora* sp.; as *Hendersonia* sp.). Source: Lucas and Webster 1967, Sivanesan 1984; Connection: *Leptosphaeria pratensis* P.A. Saccardo & P.A. Briard [= *Stagonospora melioli* (W.G. Lasch) F. Petrak]. Source: Jones and Weimar 1938, Lucas and Webster 1967; Connection: *Leptosphaeria taiwanensis* W.Y. Yen & C.C. Chi (= *Stagonospora taiwanensis* W.H. Hsieh). Source: Hsieh 1979, Sivanesan 1984; Connection: *Leptosphaeria viridella* (C.H. Peck) P.A. Saccardo (= *Stagonospora* sp.; as *Hendersonia*). Source: Lucas and Webster 1967; Conidiogenesis: Holoblastic, sometimes annellidic. Conidia: Hyaline, multiseptate, cylindrical.

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