Towards incorporating asexually reproducing fungi in the natural classification and notes for pleomorphic genera

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Abstract

This is a continuation of a series of studies incorporating asexually reproducing fungi in a natural classification. Over 3653 genera (ca. 30,000 morphological species) are known from asexual reproduction (1388 coelomycetes and 2265 hyphomycetes) in their life cycle. Among these, 687 genera are pleomorphic (305 coelomycetous; 378 hyphomycetous and four genera show both coelomycetous and hyphomycetous morphs). We provide notes for these pleomorphic genera in this paper. The 1544 unlinked genera without molecular data (which comprise ca. 3850 species) are listed as *Ascomycota* genera *incertae sedis*. It is essential to recollect the fungi which are placed in *Ascomycota* genera *incertae sedis* and subject them to DNA based phylogenetic analysis as they might represent new fungal lineages.

Keywords – Article 59.1 – Coelomycetous – Hyphomycetous – one fungus one name – Pleomorphism

Introduction

The classification of asexually reproducing fungi belonging to the subkingdom *Dikarya* (including *Ascomycota* and *Basidiomycota*) was a huge challenge in traditional taxonomy. They were traditionally placed in a separate subdivision, *Deuteromycotina* (Ainsworth 1966). DNA sequence-data is currently being widely used to place fungi in the higher level classification. Tedersoo et al. (2018) suggested that some asexual taxa could represent new fungal lineages. For example, the new phylum *Calcarisporiellomycota* was introduced by Tedersoo et al. (2018) based on asexual taxon, *Calcarisporiella* de Hoog.

Recent outlines and monographs by Wijayawardene et al. (2018, 2020), Hongsanan et al. (2020a, b) and Hyde et al. (2020b) have compiled asexual genera according to their phylogenetic placements. However, a large number of asexual genera (ca. 3850 species in 1544 genera) lack sequence data and thus their placements have not been determined. Holomorph studies are important in mycology, and it was previously determined by cultural studies or cooccurrence of both taxa on same substrate. Currently DNA based phylogenetic studies are very useful to link sexual and asexual fungi and this impacts on species nomenclature. In the last decade, several publications which focused on nomenclatural changes (e.g Chapter F, San Juan Chapter F, May et al. 2019) have been published (Table 1).

In this paper, we provide the higher-level classification of asexually producing taxa (genera to class) of *Ascomycota* and *Basidiomycota* and specifies whether they show pleomorphism. Notes for pleomorphic genera which have been introduced since 2011 and nomenclatural changes based on San Juan Chapter F are provided (May et al. 2019).

Material & Methods

The outline of classification follows Tedersoo et al. (2018), Hongsanan et al. (2020a, b), Hyde et al. (2020b) and Wijayawardene et al. (2020). The generic names are extracted from Kirk et al. (2008, 2013), Wijayawardene et al. (2017a, b, 2018), Index Fungorum (2021) and research articles since 2018 to the end of 2020. Recent name changes of pleomorphic genera (according to San Juan Chapter F) (May et al. 2019) are also incorporated based on articles as in Table 1. However, we included several genera which have been reported with ‘-like’ as in Kirk et al. (2008).

Dubious genera are excluded based on Kirk et al. (2008) and Seifert et al. (2011), but can be added if they are later found to be good genera (legitimate or valid genera). We do not include fossil genera as a separate study is being prepared by Saxena et al. (2021). A question mark before the generic name means that the link between two morphs or the placement of the genus in the higher rank is not confirmed. An asterisk following the names indicates an entry in the “Notes” section.

We have added (H) = hyphomycetous asexual morph, (C) = coelomycetous asexual morph, (Y) = yeast and (R) = Rust against entries where known (Kirk et al. 2008, Seifert et al. 2011, Wijayawardene et al. 2016, 2017a, b, Li et al. 2020). The genera which are reported as pleomorphic genera are indicated by #. Genera which show synasexual morphs are indicated by (H) and (C).

Table 1 Articles used to update the name changes of pleomorphic genera

Taxonomic group	Reference
<i>Ascomycota</i>	Rossmann et al. (2016), Wijayawardene et al. (2017a, b, 2018)
<i>Diaporthales</i>	Rossmann et al. 2013, 2015b
<i>Dothideomycetes</i>	Wijayawardene et al. 2014b, Rossmann et al. 2015a, Hongsanan et al. 2020a, b
<i>Leotiomyces</i>	Johnston et al. 2014
<i>Magnaporthales</i>	Zhang et al. 2016
<i>Orbiliaceae (Orbiliomycetes)</i>	Baral et al. 2017, Ekanayaka et al. 2018
<i>Sordariomycetes</i>	Maharachchikumbura et al. 2015, 2016, Réblová et al. 2016a, Hyde et al. 2020b
<i>Xylariales</i>	Wendt et al. 2017
<i>Xylariomycetidae</i>	Senanayake et al. 2015
<i>Pezizomycetes</i>	Healy et al. 2016

Index to *Ascomycota*

Phylum ASCOMYCOTA Caval-Sm.

Subphylum TAPHRINOMYCOTINA O.E. Erikss. & Winka

Class Taphrinomycetes O.E. Erikss. & Winka

Taphrinales Gäum. & C.W. Dodge

Protomycetaceae Gray

Saitoella Goto et al. 1987 (Y)

Taphrinaceae Gäum.

Lalaria R.T. Moore 1990 (Y)

Subphylum SACHAROMYCOTINA O.E. Erikss. & Winka

Class Saccharomycetes O.E. Erikss. & Winka

Saccharomycetales Kudrjanzev

Dipodascaceae Engl. & E. Gilg

Blastobotrys Klopotek 1967 (H)

Geotrichum Link 1809 (H)

Saprochaete Coker & Shanor 1939 (H)

Lipomycetaceae E.K. Novák & Zsolt

Myxozyma Van der Walt et al. 1981 (Y)

Pichiaceae Zender

Brettanomyces N.H. Claussen ex Custers 1940 (Y)

Hyphopichia Arx & Van der Walt 1976 (Y)

Saccharomycetaceae G. Winter

Grigorovia Gouliamova & Dimitrov 2020 (Y)

Saccharomycodaceae Kudrjanzev

Kloeckera Janke 1923 (Y)

Trigonopsidaceae M.A. Lachance & C.P. Kurtzman

Botryozyma Shann & M.T. Sm. 1992 (Y)

Trigonopsis Schachner 1929 (Y)

Saccharomycetales genera *incertae sedis*

Aciculoconidium D.S. King & S.C. Jong 1976 (Y)

Candida Berkhout 1923 (Y)

Macrorhabdus Tomasz. et al. 2003 (Y)

Subphylum PEZIZOMYCOTINA O.E. Erikss. & Winka

Class Arthoniomycetes O.E. Erikss. & Winka

Arthoniales Henssen ex D. Hawksw. & O.E. Erikss.

Arthoniaceae Reichenb. ex Reichenb.

Briancoppinsia Diederich et al. 2012 (C)

Helicobolomyces Matzer 1995 (C)

Reichlingia Diederich & Scheid. 1996 (H)

Tylophoron Nyl. ex Stizenb. 1862 (H)^{#*}

Lichenostigmatales Ertz et al.

Phaeococcomycetaceae McGinnis & Schell

Etayoa Diederich & Ertz 2014 (C)^{#*}

Phaeococcomyces de Hoog 1979 (H)

Class Dothideomycetes sensu O.E. Erikss. & Winka

Subclass Dothideomycetidae P.M. Kirk et al.

- Aureoconidiellales*** Hern.-Restr. & Crous
Aureoconidiellaceae Hern.-Restr. & Crous
Aureoconidiella Hern.-Restr. & Crous 2020 (H)
Capnodiales Woron.
Aeminiaceae J. Trovão et al.
Aeminium J. Trovão et al. 2019 (H)
- Antennariellaceae*** Woron.
Antennariella Bat. & Cif. 1963 (C)
- Capnodiaceae*** (Sacc.) Höhn. ex Theiss.
Capnodium Mont. 1848 (C)*
Kosmimatamyces Bianchin et al. 2020 (H)
Leptoxyphium Speg. 1918 (H)
Phragmocapnias Theiss. & Syd. 1918 (C)*
- Euantennariaceae*** Hughes & Corlett
Capnokyma S. Hughes 1975 (H)
Hormisciomyces Bat. & Nascim. 1957 (H)
Plokamidomyces Bat. et al. 1957 (H)
Trichothallus F. Stevens 1925 (H)
- Metacapnodiaceae*** S. Hughes & Corlett
Capnobotrys S. Hughes 1970 (H)
Capnophialophora S. Hughes 1966 (H)
Metacapnodium Speg. 1918 (H)*
- Neoantennariellaceae*** Abdollahz. & Crous*
Fumiglobus D.R. Reynolds & G.S. Gilbert 2006 (C)
Neoantennariella Abdollahz. & Crous 2020 (C)
Neoasbolisia Abdollahz. & Crous 2020 (C)
- Readeriellipsidaceae*** Abdollahz. & Crous
Fumagospora G. Arnaud 1911 (H)
Phaeoxyphiella Bat. & Cif. 1963 (H)
Readeriellipsis Crous & Decock 2015 (C)
Scorias Fr. 1832 (C)
- Mycosphaerellales*** (Nannf.) P.F. Cannon
Dissoconiaceae Crous & de Hoog
Dissoconium de Hoog et al. 1983 (H)
Globoramichloridium Y. Marín & Crous 2019 (H)
Pseudoveronaea Crous & Batzer 2012 (H)
Ramichloridium ex de Hoog 1977 (H)
Uwebraunia Crous & M.J. Wingf. 1996 (H)
- Extremaceae*** Quaedvl. & Crous
Castanedospora G. Delgado & A.N. Mill. 2018 (H)
Extremus Quaedvl. & Crous 2014 (H)
Paradevriesia Crous 2019 (H)
Petrophila de Hoog & Quaedvl. 2014 (H)
Pseudoramichloridium Cheew. & Crous 2009 (H)

Saxophila Selbmann & de Hoog 2015 (H)
Staninwardia B. Sutton 1971 (C)
Vermiconia Egidi & Onofri 2014 (H)

***Mycosphaerellaceae* Lindau**

Acervuloseptoria Crous & Jol. Roux 2014 (C)
Annellosympodiella Crous & Assefa 2014 (H)
Apseudocercospora Videira & Crous 2016 (H)
Asperisporium Maubl. 1913 (H)
Brunswickiella Videira & Crous 2017 (C)
Camptomeriphila Crous & M.J. Wingf. 2016 (C)
Caryophylloseptoria Verkley et al. 2013 (C)
Catenulocercospora C. Nakash. et al. 2017 (H)
Cercospora Fresen. 1863 (H)
Cercospora Sacc. 1880 (H)
Cercosporidium Earle 1901 (H)
Chuppomyces Videira & Crous 2017 (H)
Cladocillium Chun-Hao Chen & R. Kirschner 2020 (H)
Clarohilum Videira & Crous 2017 (H)*
Clypeosphaerella Guatim. et al. 2017 (H)*
Collapsimycopappus A. Hashim. et al. 2018 (H)
Collarispora Videira & Crous 2017 (H)*
Coremiopassalora U. Braun et al. 2017 (H)
Colletogloeum Petr. 1953 (C)
Cytostagonospora Bubák 1916 (C)
Deightonomyces Videira & Crous 2017 (H)
Devonomyces Videira & Crous 2017 (H)*
Dictyosporina Abreu et al. 2017 (H)
Distocercospora N. Pons & B. Sutton 1988 (H)
Distocercosporaster Videira et al. 2017 (H)
Distomycovellosiella U. Braun et al. 2017 (H)
Dothistroma Hulbary 1941 (C)
Epicoleosporium Videira & Crous 2016 (H)
Filiella Videira & Crous 2016 (H)
Fusoidiella Videira & Crous 2016 (H)
Graminopassalora U. Braun et al. 2017 (H)
Hyalocercosporidium Videira & Crous 2017 (H)
Hyalozasmidium U. Braun et al. 2017 (H)
Janetia M.B. Ellis 1976 (H)
Juncomyces Crous 2020 (H)
Lecanosticta Syd. 1922 (C)
Madagascaromyces U. Braun et al. 2017 (H)
Microcyclosporella Jana Frank et al. 2010 (H)
Micronematomyces U. Braun et al. 2017 (H)
Miuraea Hara 1948 (H)
Mycosphaerelloides Videira & Crous 2016 (H)*
Mycovellosiella Rangel 1918 (H)
Neoceratosperma Crous & Cheew. 2014 (H)
Neocercospora M. Bakhshi et al. 2015 (H)
Neodeightoniella Crous & W.J. Swart 2013 (H)
Neopenidiella Quaedvl. & Crous 2014 (H)
Neophloeospora U. Braun et al. 2017 (H)

Neopseudocercospora Crous 2013 (H)
Neopseudocercospora Videira & Crous 2016 (H)*
Neoramichloridium Phook. et al. 2017 (H)
Neoseptoria Quaedvl. et al. 2013 (C)
Nothopassalora U. Braun et al. 2017 (H)
Nothopericoniella Videira & Crous 2017 (H)
Pachyramichloridium Videira & Crous 2017 (H)
Pallidocercospora Crous 2012 (H)*
Pantospora Cif. 1938 (H)
Paracercospora Deighton 1979 (H)
Paracercosporidium Videira & Crous 2017 (H)
Paramycovellosiella Videira et al. 2017 (H)
Parapallidocercospora Videira et al. 2017 (H)*
Passalora Fr. 1849 (H)
Phaeocercospora Crous 2012 (H)
Phaeophleospora Rangel 1916 (C)
Phaeoramularia Munt.-Cvetk. 1960 (H)
Piricauda Bubák 1914 (H)
Phloeospora Wallr. 1833 (C)
Pleopassalora Videira & Crous 2017 (H)
Pleuropassalora U. Braun et al. 2017 (H)
Pluripassalora Videira & Crous 2017 (H)
Plurivorosphaerella O. Hassan & T.H. Chang 2017 (H)*
Polyphialoseptoria Quaedvl. et al. 2013 (C)
Polythrincium Kunze 1817 (H)
Protostegia Cooke 1880 (C)
Pseudocercospora Speg. 1910 (H)
Pseudocercospora Deighton 1973 (H)
Pseudopericoniella Videira & Crous 2017 (H)
Pseudophaeophleospora C. Nakash. et al. 2017 (C)
Pseudozasmidium Videira & Crous 2017 (H)*
Ragnhildiana Solheim 1931 (H)
Ramularia Unger 1833 (H)*
Ramulariopsis Speg. (H)
Ramulispora Miura 1920 (H)
Rhachisphaerella U. Braun et al. 2017 (H)*
Rosisphaerella Videira & Crous 2017 (H)
Ruptoseptoria Quaedvl. et al. 2013 (C)
Scolecostigmina U. Braun 1999 (H)
Septoria Sacc. 1884 (C)
Sirosporium Bubák & Serebrian. *sensu lato* 1912 (H)
Sonderhenia H.J. Swart & J. Walker 1988 (C)
Sphaerulina Sacc. 1878 (H)
Stromatoseptoria Quaedvl. et al. 2013 (C)
Sultanimyces Videira & Crous 2017 (H)
Trochophora R.T. Moore 1955 (H)
Uwemyces Hern.-Restr. et al. 2016 (H)
Xenopassalora Crous 2017 (H)
Xenoramularia Videira et al. 2016 (H)
Xenosonderhenia Crous 2012 (C)
Xenosonderhenioides Videira & Crous 2017 (H)
Zasmidium Fr. 1849 (H)

Zymoseptoria Quaedvl. & Crous 2011 (C)

Doubtful pleomorphic genera

Microcylus Sacc. et al. 1904 with aposphaeria-like asexual morph (C)^{#*}

Neodevriesiaceae Quaedvl. & Crous

Neodevriesia Quaedvl. & Crous 2014 (H)^{#*}

Tripospermum Speg. 1918 (H)

Phaeothecoidiaceae K.D. Hyde & Hongsanan (= *Nowamycetaceae* Crous)

Exopassalora Videira & Crous 2017 (H)

Houjia G.Y. Sun & Crous 2010 (H)

Phaeothecoidiella Batzer & Crous 2010 (H)

Sporidesmajora Batzer & Crous 2010 (H)

Schizothyriaceae Höhn. ex Trotter et al.

Zygophiala E.W. Mason 1945 (H)

Teratosphaeriaceae Crous & U. Braun

Acidiella Hujšlová & M. Kolařík 2012 (H)

Acidomyces B.J. Baker et al. 2008 (H)

Acrodontium de Hoog 1972 (H)

Apenidiella Quaedvl. & Crous 2014 (H)

Batcheloromyces Marasas et al. 1975 (H)

Baudoinia J.A. Scott & Unter. 2007 (H)

Bryochiton Döbbeler & Poelt 1978 (H)^{#*}

Camarosporula Petr. 1954 (C)^{#*}

Capnobotryella Sugiy. 1987 (H)

Catenulostroma Crous & U. Braun 2007 (H)

Constantinomyces Egidi & Onofri 2014 (H)

Davisoniella H.J. Swart 1988 (C)

Devriesia Seifert & N.L. Nick. 2004 (H)

Elasticomyces Zucconi & Selbmann 2008 (H)

Eupenidiella Quaedvl. & Crous 2014 (H)

Friedmanniomyces Onofri 1999 (H)

Hispidoconidioma Tsuneda & Davey 2010 (H)

Hortaea Nishim. & Miyaji 1984 (H)

Hyweljonesia R.G. Shivas et al. 2016 (H)

Incertomyces Egidi & Zucconi 2014 (H)

Lapidomyces de Hoog & Stielow 2014 (H)

Leptomelanconium Petr. 1923 (C)

Meristemomyces Isola & Onofri 2014 (H)

Microcyclospora J. Frank et al. 2010 (H)

Monticola Selbmann & Egidi 2014 (H)

Muriphila Jurjević et al. 2020 (H)

Myrtapenidiella Quaedvl. & Crous 2014 (H)

Neocatenulostroma Quaedvl. & Crous 2014 (H)

Neophaeothecoidea Quaedvl. & Crous 2014 (H)

Neotrimmatostroma Quaedvl. & Crous 2014 (H)

Oleoguttula Selbmann & de Hoog 2019 (H)

Parapenidiella Crous & Summerell 2012 (H)

Penidiella Crous & U. Braun 2007 (H)

Penidiellomyces Crous et al. 2016 (H)

Penidiellopsis Sandoval-Denis et al. 2016 (H)
Phaeothecoidea Crous 2007 (H)
Pseudotaeniolina J.L. Crane & Schokn. 1986 (H)
Queenslandipenidiella Quaedvl. & Crous 2014 (H)
Readeriella Syd. & P. Syd. 1908 (C)^{#*}
Recurvomyces Selbmann & de Hoog 2008 (H)
Simplicidiella Crous et al. 2016 (H)
Stenella Syd. 1930 (H)
Teratoramularia Videira et al. 2016 (H)
Teratosphaeria Syd. & P. Syd. 1912 (C)^{#*}
Xanthoriicola D. Hawksw. 1973 (H)
Xenoconiothyrium Crous & Marinc. 2011 (C)
Xenopenidiella Quaedvl. & Crous 2014 (H)
Xenophacidiella Crous 2011 (C)

***Capnodiales* genera incertae sedis**

Arthrocatena E. Egidi & L. Selbmann 2014 (H)
Catenulomyces Egidi & de Hoog 2019 (H)
Eriosporella Höhn. 1916 (C)
Hyphoconis Egidi & Quaedvl. 2014 (H)
Neohortaea Quaedvl. & Crous 2014 (H)
Perusta Egidi & Stielow 2014 (H)
Pseudoepicoccum M.B. Ellis 1971 (H)
Ramimonilia B. Stielow. & Quaedvl. 2014 (H)
Ramopenidiella Crous & R.G. Shivas 2014 (H)
Septocyta Petr. 1927 (C)

***Cladosporiales* Abdollahz. & Crous**

***Cladosporiaceae* Nann.**

Acroconidiella J.C. Lindq. & Alippi 1964 (H)
Cladosporium Link 1816 (H)^{#*}
Graphiopsis Trail 1889 (H)
Rachicladosporium Crous et al. 2007 (H)
Toxicocladosporium Crous & U. Braun 2007 (H)
Verrucocladosporium K. Schub. et al. 2007 (H)

***Comminutisporales* Abdollahz. & Crous**

***Comminutisporaceae* Abdollahz. & Crous**

Comminutispora A.W. Ramaley 1996 (H)^{#*}

***Dothideales* Lindau**

***Dothideaceae* Chevall.**

Dothiora Fr. 1849 (C)^{#*}
Endoconidioma Tsuneda et al. 2004 (C)
Kabatina R. Schneid. & Arx 1966 (C)
Neocylindroseptoria Thambug. & K.D. Hyde 2014 (C)
Neodothiora Crous et al. 2020 (C)

***Neocelosporiaceae* Crous**

Celosporium Tsuneda & Davey 2010 (H)
Neocelosporium Crous 2018 (H)

Saccoltheciaceae Bonord.

- Aureobasidium* Viala & G. Boyer 1891 (H)
Kabatiella Bubák 1907 (H)
Moringomyces Crous 2020 (chlamydospore)
Pseudoseptoria Speg. 1910 (C)
Saccolthecium Fr. 1836 (C)^{#*}
Selenophoma Maire 1907 (C)

Dothideales genera *incertae sedis*

- Coniozoma* Crous 2008 (C)
Hormonema Lagerb. & Melin 1927 (H)
Rhizosphaera L. Mangin & Har. 1907 (C)

Neophaeothecales Abdollahz. & Crous

Neophaeotheceaceae Abdollahz. & Crous

- Neophaeothea* Abdollahz. & Crous 2020 (H)

Myriangiales Starbäck

Elsinoaceae Höhn. ex Sacc. & Trotter

- Elsinoë* Racib. 1900 (C)^{#*}

Myriangiales genera *incertae sedis*

- Gobabebomyces* Crous 2020 (C)

Phaeothecales Abdollahz. & Crous

Phaeothecaceae Darveaux

- Phaeothea* Sigler et al. 1981 (H)

Racodiales Abdollahz. & Crous

Racodiaceae Link

- Racodium* Fr. 1829 (H)

Subclass *Pleosporomycetidae* C.L. Schoch et al.

Gloniales Jayasiri & K.D. Hyde

Gloniaceae (Corda) Boehm et al.

- Cenococcum* Moug. & Fr. 1829 (C)
Purpurepithecium Jayasiri & K.D. Hyde 2017 (H)^{#*}

Hysteriales Lindau

Hysteriaceae Chevall.

- Glioniopsis* De Not. 1847 with aposphaeria-like asexual morph (C)^{#*}
Hysterobrevium E. Boehm & C.L. Schoch 2009 (C)^{#*}
Rhytidhysterion Speg. 1881 (C)

Mytilinidiales Boehm et al.

Mytilinidiaceae Kirschst.

- Peyronelia* Cif. & Gonz. Frag. 1927 (H)
Pseudocamaropycnis Crous (C)
Septonema Corda 1837 (H)
Taeniolella S. Hughes 1958 (H)

Pleosporales Luttrell ex M.E. Barr

- Acrocalymmateae** Crous & Trakun.
Acrocalymma Alcorn & J.A.G. Irwin 1987 (C)
- Amniculicolaceae** Zhang et al.
Amniculicola Y. Zhang ter & K.D. Hyde 2008 (H)*
Murispora Y. Zhang bis et al. 2009 (C)*
Vargamyces Tóth 1980 (H)
- Amorosiaceae** Thambug. & K.D. Hyde
Amorosa Mantle & D. Hawksw. 2006 (H)
Angustimassarina Thambug. et al. 2015 (H)*
- Astrosphaeriellaceae** Phook. & K.D. Hyde
Pithomyces Berk. & Broome 1875 (H)
- Aquasubmersaceae** A. Hashim. & Kaz. Tanaka
Aquasubmersa K.D. Hyde & Huang Zhang (C)*
- Bambusicolaceae** D.Q. Dai & K.D. Hyde
Bambusicola D.Q. Dai & K.D. Hyde 2012 (C)*
Corylicola Wijesinghe et al. 2020 (C)*
Leucaenicola Jayasiri et al. 2018 (C)
Palmiascoma Phook. & K.D. Hyde 2015 (C)*
- Biatriosporaceae** K.D. Hyde
Biatriospora K.D. Hyde & Borse 1986 (C)*
- Camarosporiaceae** Wanas. et al.
Camarosporium Schulzer 1870 (C)*
Camarosporomyces Crous 2017 (C)
- Camarosporidiellaceae** Wanas. et al.
Camarosporidiella Wanas. et al. 2017 (C)
- Coniothyriaceae** W.B. Cooke
Coniothyrium Corda 1840 (C)
Foliophoma Crous 2017 (C)
Neoconiothyrium Crous 2017 (C)
Ochrocladosporium Crous & U. Braun 2007 (H)
Staurosphaeria Rabenh. 1858 (C)*
- Corynesporascaceae** Sivan.
Corynespora Güssow 1906 (H)
- Cryptocoryneaceae** A. Hashim. & Kaz. Tanaka
Cryptocoryneum Fuckel 1870 (H)
- Cucurbitariaceae** G. Winter
Allocucurbitaria Valenz.-Lopez et al. 2017 (C)
Astragalicola Jaklitsch & Voglmayr 2018 (C)
Cucitella Jaklitsch & Voglmayr 2018 (C)*
Cucurbitaria Gray 1821 (C)*

Neocucurbitaria Wanas. et al. 2017 (C)^{#*}
Paracucurbitaria Valenz.-Lopez et al. 2017 (C)
Parafenestella Jaklitsch & Voglmayr 2018 (C)^{#*}
Protofenestella Jaklitsch & Voglmayr 2018 (C)^{#*}
Syncarpella Theiss. & Syd. 1915 (C)^{#*}
Synfenestella Jaklitsch & Voglmayr 2018 (C)^{#*}

Cyclothyriellaceae Jaklitsch & Voglmayr
Cyclothyriella Jaklitsch & Voglmayr 2016 (C)^{#*}

Dictyosporiaceae Boonmee & K.D. Hyde
Aquadictyospora Z.L. Luo et al. 2017 (H)
Cheirosporium L. Cai & K.D. Hyde 2008 (H)
Dendryphiella Bubák & Ranoj. 1914 (H)
Dictyocheirospora D'souza et al. 2016 (H)
Dictyopalmispora Pinruan et al. 2016 (H)
Dictyosporium Corda 1836 (H)
Digitodesmium P.M. Kirk 1981 (H)
Jalapriya D'souza et al. 2016 (H)
Neodendryphiella Iturrieta-González et al. 2018 (H)
Pseudocoleophoma Kaz. Tanaka & K. Hiray. 2015 (C)^{#*}
Pseudoconiothyrium Crous & R.K. Schumach. 2019 (C)
Pseudodictyosporium Matsush. 1971 (H)
Sajamaea Flakus et al. 2020 (C)
Vikalpa D'souza et al. 2016 (H)

Didymellaceae Gruyter et al. (= *Microsphaeropsidaceae* Q. Chen et al.)
Allophoma Q. Chen & L. Cai 2015 (C)
Anthodidymella Phukhams. et al. 2020 (C)^{#*}
Ascochyta Lib. 1830 (C)^{#*}
Boeremia Aveskamp et al. 2010 (C)^{#*}
Briansuttonomyces Crous 2010 (C)
Calophoma Q. Chen & L. Cai 2015 (C)
Chaetasbolisia Speg. 1918 (C)
Cumuliphoma Valenz.-Lopez et al. 2017 (C)
Didymella Sacc. ex Sacc. 1880 (C)^{#*}
Didysimulans Tibpromma et al. 2017 (H)^{#*}
Dimorphoma L.W. Hou et al. 2020 (C)
Ectodidymella L.W. Hou et al. 2020 (C)^{#*}
Ectophoma Valenz.-Lopez et al. 2017 (C)
Epicoccum Link 1815 (H)
Heterophoma Q. Chen & L. Cai 2015 (C)
Juxtiphoma Valenzuela-Lopez et al. 2017 (C)
Leptosphaerulina McAlpine 1902 (H)^{#*}
Longididymella L.W. Hou et al. 2020 (C)^{#*}
Macroascochyta L.W. Hou et al. 2020 (C)
Microsphaeropsis Höhn. 1917 (C)
Neoascochyta Q. Chen & L. Cai 2015 (C)^{#*}
Neodidymelliopsis Q. Chen & L. Cai 2015 (C)^{#*}
Neomicrosphaeropsis Thambug. et al. 2016 (C)
Nothophoma Q. Chen & L. Cai 2015 (C)
Paraboeremia Q. Chen & L. Cai 2015 (C)^{#*}

Paramicrosphaeropsis L.W. Hou et al. 2020 (C)
Phoma Sacc. 1880 (C)^{#*}
Phomatodes Q. Chen & L. Cai 2015 (C)
Pseudoascochyta Valenzuela-Lopez et al. 2016 (C)
Remotididymella Valenzuela-Lopez et al. 2017 (C)^{#*}
Sclerotiophoma L.W. Hou et al. 2020 (C)
Similiphoma Valenz.-Lopez et al. 2017 (C)
Stagonosporopsis Died. 1912 (C)^{#*}
Vacuiphoma Valenz.-Lopez et al. 2017 (C)
Vandijckomycella Hern.-Restr. et al. 2020 (C)
Xenodidymella Q. Chen & L. Cai 2015 (C)^{#*}

***Didymosphaeriaceae* Munk**

Alloconiothyrium Verkley et al. 2014 (C)
Austropleospora R.G. Shivas & L. Morin 2010 (C)^{#*}
Bimuria D. Hawksw. et al. 1979 (C)^{#*}
Chromolaenicola Mapook & K.D. Hyde 2020 (C)^{#*}
Cylindroaseptospora Jayasiri et al. 2019 (C)
Didymosphaeria Fuckel 1870 (C)^{#*}
Kalmusia Niessl 1872 (C)^{#*}
Paracamariosporium Wijayaw. et al. 2014 (C)
Paraconiothyrium Verkley 2004 (C)^{#*}
Paraphaeosphaeria O.E. Erikss. 1967 (C)^{#*}
Pseudocamarosporium Wijayaw. & K.D. Hyde 2014 (C)
Pseudopithomyces Ariyaw. & K.D. Hyde 2015 (H)
Spegazzinia Sacc. 1879 (H)
Tremateia Kohlm. et al. 1995 (C)^{#*}
Verrucoconiothyrium Crous 2015 (C)
Xenocamarosporium Crous & M.J. Wingf. 2015 (C)

***Dothidotthiaceae* Crous & A.J.L. Phillips**

Dothidotthia Höhn. 1918 (H)^{#*}
Mycocentrospora Deighton 1972 (H)
Phaeomycocentrospora Crous et al. 2012 (H)
Pleiochaeta (Sacc.) S. Hughes 1951 (H)
Thyrostroma Höhn. 1911 (H)
Wilsonomyces Adask. et al. 1990 (H)

***Fuscostagonosporaceae* Jayasiri et al.**

Fuscostagonospora Kaz. Tanaka & K. Hiray. 2015 (C)^{#*}

***Fusculinaceae* Crous**

Fusculina Crous & Summerell 2006 (C)
Gordonomyces Crous & Marinc. 2011 (C)

***Halojulellaceae* Suetrong et al.**

Halojulella Suetrong et al. 2013 (C)^{#*}
Omania Maharachch. et al. 2020 (C)

***Hermatomycetaceae* Locq. ex A. Hashim. & Kaz. Tanaka**

Hermatomyces Speg. 1910 (H)

Hypsostromataceae Huhndorf

Hypsostroma Huhndorf (C)^{#*}

Latoruaceae Crous

Latorua Crous 2015 (H)

Matsushimamyces Rahul Sharma & Rohit Sharma 2015 (H) (*nom. illegit.*)

Polyschema H.P. Upadhyay 1966 (H)

Pseudoasteromassaria M. Matsum. & Kaz. Tanaka 2016 (C)^{#*}

Triseptata Boonmee & Phookamsak 2020 (H)^{#*}

Lentimurisporaceae N.G. Liu et al.

Bahusandhika Subram. 1956 (H)

Lentimurispora N.G. Liu et al. 2019 (H)

Lentitheciaceae Yin. Zhang et al.

Lentithecium K.D. Hyde et al. 2009 (C)^{#*}

Murilentithecium Wanas. et al. 2014 (C)^{#*}

Phragmocamarosporium Wijayaw. et al. 2015 (C)

Pleurophoma Höhn. 1914 (C)

Setoseptoria Quaedvl. 2013 (C)

Towyspora Wanas. et al. 2016 (C)^{#*}

Leptosphaeriaceae M.E. Barr

Alternariaster E.G. Simmons 2007 (H)

Chaetoplea (Sacc.) Clem. 1931 (C)^{#*}

Heterosporicola Crous 2017 (C)

Leptosphaeria Ces. & De Not. 1863 (C)^{#*}

Longiseptatispora L.W. Hou & Crous

Ochraceocephala Voglmayr & Aiello (H)

Paraleptosphaeria Gruyter et al. 2012 (= *Acicuseptoria* Quaedvl. et al. 2013 *fide* Hongsanan et al. 2020a) (C)^{#*}

Plenodomus Preuss 1851 (C)^{#*}

Pseudoleptosphaeria Ariyaw. & K.D. Hyde 2015 (C)

Querciphoma Crous 2017 (C)

Sclerenchymomyces Phukhams. & K.D. Hyde 2020 (C)^{#*}

Sphaerellopsis Cooke 1883 (C)

Subplenodomus Gruyter et al. 2012 (C)

Libertasomycetaceae Crous

Libertasomyces Crous & Roets 2016 (C)

Neoplatysporoides Crous & M.J. Wingf. 2015 (C)^{#*}

Lindgomycetaceae K. Hiray. et al.

Clohesyomyces K.D. Hyde 1993 (C)

Lolia Abdel-Aziz & Abdel-Wahab 2010 (C)

Longiostiolaceae Phukhams. et al.

Shearia Petr. 1924 (C)

Longipedicellataceae Phukhams. et al.

Longipedicellata H. Zhang et al. 2016 (H)^{#*}

Pseudoxylomyces Kaz. Tanaka & K. Hiray. 2015 (H)

Submersispora W. Dong, H. Zhang & K.D. Hyde 2020 (H)

***Lophiostomataceae* Sacc.**

Coelodictyosporium Thambug. & K.D. Hyde 2015 (C)^{#*}

Crassiclypeus A. Hashim. et al. 2018 (C)^{#*}

Desertiserpentica Maharachch. et al. 2020 (C)

Dimorphiopsis Crous 2013 (C)

Flabellascoma A. Hashim. et al. 2018 (C)^{#*}

Lophiostoma Ces. & De Not. 1863 (C)^{#*} *Magnopulchromyces* L.B. Conc. et al. 2020 (H)

Pseudopaucispora A. Hashim. 2018 (C)^{#*}

***Lophiotremataceae* K. Hiray. & Kaz. Tanaka**

Atrocalyx A. Hashim. & Kaz. Tanaka 2017 (C)^{#*}

Crassimassarina A. Hashim. & Kaz. Tanaka 2017 (C)^{#*}

Cryptoclypeus A. Hashim. & Kaz. Tanaka 2017 (C)^{#*}

Galeaticarpa A. Hashim. & Kaz. Tanaka 2017 (C)^{#*}

Lophiotrema Sacc. 1878 (C)^{#*}

Pseudocryptoclypeus A. Hashim. & Kaz. Tanaka 2017 (C)^{#*}

***Macrodiplodiopsidaceae* Voglmayr et al.**

Macrodiplodiosis Petr. 1922 (C)^{#*}

Pseudochaetosphaeronema Punith. 1979 (C)

***Massarinaceae* Munk**

Helminthosporium Link 1809 (= *Helminthosporiella* Hern.-Restr. et al. 2016) (H)^{#*}

Massarina Sacc. 1883 (C)^{#*}

Pseudodidymosphaeria Thambug. & K.D. Hyde 2015 (C)^{#*}

Pseudosplanchnonema Chethana et al. 2015 (C)^{#*}

Stagonospora (Sacc.) Sacc. 1884 (C)

Suttonomyces Wijayaw. et al. 2015 (C)

***Melanommataceae* G. Winter**

Aposphaeria Sacc. 1880 (C)

Exosporiella P. Karst. 1892 (H)^{#*}

Fusiconidium J.F. Li et al. 2017 (H)

Melanocamarosporioides D. Pem et al. 2018 (C)

Melanocamarosporium Wijayaw. et al. 2016 (C)

Melanodiplodia Wanas. et al. 2018 (C)

Melanomma Nitschke ex Fuckel 1870 (C)^{#*}

Muriformistrickeria Q. Tian et al. 2015 (C)^{#*}

Petrakia Syd. & P. Syd. 1913 (H)^{#*}

Phragmocephala E.W. Mason & S. Hughes 1951 (H)

Phragmotrichum Kunze 1823 (C)

Pleotrichocladium Hern.-Restr. et al. 2017 (H)

Praetumpfia Jaklitsch & Voglmayr 2017 (C)^{#*}

Pseudodidymella C.Z. Wei et al. 1997 (H)^{#*}

Seifertia Partr. & Morgan-Jones 2002 (H)

Tumularia Descals & Marvanová 1987 (H)

Uzbekistanica Wanas. et al. 2018 (C)^{#*}

Xenostigmina Crous 1998 (H)

***Morosphaeriaceae* Suetrong et al. 2009**

Neohelicascus W. Dong et al. 2020 (C)^{#*}

Neocamarosporiaceae Wanas. et al.

Neocamarosporium Crous & M.J. Wingf. 2014 (C)^{#*}

Neohendersoniaceae Giraldo & Crous

Medicopsis Gruyter et al. 2012 (C)

Neohendersonia Petr. 1921 (C)

Neomedicopsis Crous & Akulov. 2019 (C)

Neophaeosphaeriaceae Ariyaw. et al.

Neophaeosphaeria M.P.S. Câmara et al. 2003 (C)^{#*}

Neopyrenochaetaceae Valenz.-Lopez et al.

Neopyrenochaeta Valenz.-Lopez et al. 2017 (C)

Neomassariniaceae Mapook & K.D. Hyde

Pseudohelminthosporium Phukhams. & K.D. Hyde 2020 (H)

Nigrogranaceae Jaklitsch & Voglmayr

Nigrograna Gruyter et al. 2012 (C)^{#*}

Occultibambusaceae D.Q. Dai & K.D. Hyde

Brunneofusispora S.K. Huang & K.D. Hyde 2019 (C)^{#*}

Occultibambusa D.Q. Dai & K.D. Hyde 2016 (C)^{#*}

Seriascoma Phook. et al. 2016 (C)^{#*}

Versicolorisporium Sat. Hatak. et al. 2008 (C)

Ohleriaceae Jaklitsch & Voglmayr

Ohleria Fuckel. 1868 (C)^{#*}

Parabambusicolaceae Kaz. Tanaka & K. Hiray.

Parabambusicola Kaz. Tanaka & K. Hiray. 2015 (H)^{#*}

Paramonodictys N.G. Liu et al. 2020 (H)

Pseudomonodictys Doilom et al. 2015 (H)

Paradictyoarthriniaceae Doilom et al.

Paradictyoarthrinium Matsush. 1996 (H)

Parapyrenochaetaceae Valenz.-Lopez et al.

Parapyrenochaeta Valenz.-Lopez et al. 2017 (C)

Quixadomyces Cantillo & Gusmão 2018 (C)

Periconiaceae (Sacc.) Nann.

Noosia Crous et al. 2011 (H)

Periconia Tode 1791 (H)^{#*}

Phaeoseptaceae S. Boonmee et al.

Pleopunctum N.G. Liu et al. 2019 (H)

Phaeosphaeriaceae M.E. Barr

Amarenographium O.E. Erikss. 1982 (C)*

Ampelomyces Ces. ex Schltdl. 1852 (C)

Banksiophoma Crous 2017 (C)
Bhagirathimyces S.M. Singh & S.K. Singh 2020 (H)
Bhatiellae Wanas. et al. 2018 (H)
Camarosporioides W.J. Li & K.D. Hyde 2016 (C)
Chaetosphaeronema Moesz 1915 (C)
Didymocyrtis Vain. 1921 (C)^{#*}
Dlhawksworthia Wanas. et al. 2018 (C)^{#*}
Edenia M.C. González et al. 2007 (H)
Hydeomyces Maharachch. et al. 2019 (C)^{#*}
Lecanostictopsis B. Sutton & Crous 1997 (H)
Mauginiella Cavara 1925 (H)
Melnikia Wijayaw. et al. 2016 (C)
Murichromolaenicola Mapook & K.D. Hyde 2020 (H)^{#*}
Muriphaeosphaeria Phukhams. et al. 2016 (C)^{#*}
Neosetophoma Gruyter et al. 2010 (C)
Neosphaerellopsis Crous & Trakun. 2014 (C)
Neostagonospora Quaedvl. et al. 2013 (C)
Neostagonosporella C.L. Yang et al. 2019 (C)^{#*}
Neosulcatispora Crous & M.J. Wingf. 2015 (C)
Paraphoma Morgan-Jones & J.F. White 1983 (C)
Parastagonospora Quaedvl. et al. 2013 (C)
Parastagonosporella M. Bakhshi et al. 2018 (C)
Phaeopoacea Thambug. et al. 2017 (C)^{#*}
Phaeosphaeria I. Miyake 1909 (C)^{#*}
Phaeoseptoriella Crous 2019 (C)
Phaeosphaeriopsis M.P.S. Câmara et al. 2003 (C)^{#*}
Phaeostagonospora A.W. Ramaley 1997 (C)
Piniphoma Crous & R.K. Schumach. 2019 (C)
Poaceicola W.J. Li et al. 2015 (C)^{#*}
Populocrescentia Wanas. et al. 2015 (H)^{#*}
Pseudostaurosphaeria Mapook & K.D. Hyde 2020 (C)
Sclerostagonospora Höhn. 1917 (C)
Scolicosporium Lib. ex Roum. 1880 (C)
Septoriella Oudem. 1889 (C)
Setophoma Gruyter et al. 2010 (C)
Tiarospora Sacc. & Marchal 1885 (C)
Tintelnotia S.A. Ahmed et al. 2017 (C)
Vagicola K.W.T. Chethana & K.D. Hyde 2015 (H)^{#*}
Vrystaatia Quaedvl. et al. 2013 (C)
Wojnowiciella Crous et al. 2015 (C)
Xenophoma Crous & Trakun. 2014 (C)
Xenoseptoria Quaedvl. et al. 2013 (C)
Yunnanensis Karun. et al. 2017 (C)^{#*}

***Pleomassariaceae* M.E. Barr**

Beverwykella Tubaki 1975 (H)
Myxocyclus Riess 1852 asexual morph of *Splanchnonema sensu lato* (C)^{#*}
Prosthemia Kunze 1817 (C)^{#*}

***Pleomonodictydaceae* Hern.-Restr. et al.**

Pleomonodictys Hern.-Restr. et al. 2017 (H)
Pleohelicoon Jayasiri et al. 2019 (H)

***Pleosporaceae* Nitschke**

- Alternaria* Nees 1816 (H)^{#*}
- Bipolaris* Shoemaker 1959 (H)^{#*}
- Clathrospora* Rabenh. 1857 (H)^{#*}
- Comoclathris* Clem. 1909 (C)^{#*}
- Curvularia* Boedijn 1933 (H)^{#*}
- Dichotomophthora* Mehrl. & Fitzp. ex M.B. Ellis 1971 (H)
- Exserohilum* K.J. Leonard & Suggs 1974 (H)^{#*}
- Gibbago* E.G. Simmons 1986 (H)
- Johnalcornia* Y.P. Tan & R.G. Shivas 2014 (H)
- Paradendryphiella* Woudenb. & Crous 2013 (H)
- Pleoseptum* A.W. Ramaley & M.E. Barr 1995 (C)^{#*}
- Porocercospora* Amaradasa et al. 2014 (H)
- Pyrenophora* Fr. 1849 (H)^{#*}
- Stemphylium* Wallr. 1833 (H)^{#*}
- Tamaricicola* Thambug. et al. 2016 (C)^{#*}

***Pseudoastrosphaeriellaceae* Phook. & K.D. Hyde**

- Pseudoastrosphaeriella* Phook. et al. 2015 (C)^{#*}

***Pseudoberkleasmiaceae* Phukhams. & K.D. Hyde**

- Pseudoberkleasmiium* Tibpromma & K.D. Hyde 2018 (H)

***Pseudocoleodictyosporaceae* Doilom & K.D. Hyde**

- Pseudocoleodictyospora* Doilom & K.D. Hyde 2016 (H)
- Subglobosporium* Doilom & K.D. Hyde 2016 (H)

***Pseudopyrenochaetaceae* Valenz.-Lopez et al.**

- Pseudopyrenochaeta* Valenzuela-Lopez et al. 2017 (C)

***Pyrenochaetopsidaceae* Valenz.-Lopez et al**

- Pyrenochaetopsis* Gruyter et al. 2010 (C)
- Neopyrenochaetopsis* Valenz-Lopez et al. 2017 (C)
- Xenopyrenochaetopsis* Valenz.-Lopez et al. 2017 (C)

***Roussoellaceae* J.K. Liu et al.**

- Cytoplea* Bizz. & Sacc. 1885 (C)
- Immotthia* M.E. Barr 1987 (C)^{#*}
- Neoroussoella* Jian K. Liu et al. 2014 (C)^{#*}
- Pararoussoella* Wanas. et al. 2018 (C)^{#*}
- Roussoella* Sacc. 1888 (C)^{#*}
- Pseudoneoconiothyrium* Wanas. et al. 2018 (C)
- Pseudoroussoella* Mapook & K.D. Hyde 2020 (C)^{#*}
- Roussoellopsis* I. Hino & Katum. 1965 (C)^{#*}

***Shiraiaceae* Y.X. Liu et al.**

- Neoshiraia* H.A. Ariyaw. 2020 (C)
- Rubroshiraia* D.Q. Dai & K.D. Hyde 2019 (C)^{#*}
- Shiraia* Henn. 1900 (C)^{#*}

***Sporormiaceae* Munk**

- Forliomyces* Phukhams. et al. 2016 (C)

Sparticola Phukhams. et al. 2016 (H)^{#*}
Trichophoma Magaña-Dueñas et al. 2020 (H)
Westerdykella Stolk 1955 (C)^{#*}
Xenomonodictys Hern.-Restr. et al. 2020 (H)

Sulcatissporaceae Kaz. Tanaka & K. Hiray.

Anthosulcatisspora Phukhams. & K.D. Hyde 2020 (C)^{#*}
Loculosulcatisspora G.C. Ren & K.D. Hyde 2020 (C)
Magnicamarosporium Kaz. Tanaka & K. Hiray. 2015 (C)
Neobambusicola Crous & M.J. Wingf. 2014 (C)
Pseudobambusicola Hern.-Restr. & Crous 2018 (C)
Sulcatisspora Kaz. Tanaka & K. Hiray. 2015 (C)^{#*}

Teichosporaceae M.E. Barr

Floricola Kohlm. & Volkm.-Kohlm. 2000 (C)*
Magnibotryascoma Thambug. & K.D. Hyde 2015 (C)^{#*}
Paulkirkia Wijayaw. et al. 2016 (C)
Teichospora Fuckel 1870 (C)^{#*}

Tetraplospheariaceae Kaz. Tanaka & K. Hiray.

Polyplosphearia Kaz. Tanaka & K. Hiray. 2009 (H)^{#*}
Pseudotetraploa Kaz. et al. 2009 (H)
Quadricrura Kaz. Tanaka et al. 2009 (H)
Shrungabeeja V.G. Rao & K.A. Reddy 1981 (H)
Tetraploa Berk. & Broome 1850 (H)^{#*}
Triplosphearia Kaz. Tanaka & K. Hiray. 2009 (H)^{#*}

Thyridariaceae Sacc.

Cycasicola Wanas. et al. 2018 (C)
Liua Phook. & K.D. Hyde 2019 (C)
Parathyridariella Prigione et al. 2020 (H)

Torulaceae Corda

Dendryphion Wallr. 1833 (H)
Neotorula Ariyaw. et al. 2016 (H)
Rostriconidium Z.L. Luo et al. 2018 (H)
Rutola J.L. Crane & Schokn. 1978 (H)
Sporidesmioides J.F. Li et al. 2016 (H)
Torula Pers. 1795 (H)

Trematosphaeriaceae K.D. Hyde et al.

Trematosphaeria Fuckel 1870 (C)^{#*}

Tzeananiaceae H.A. Ariyaw. et al.

Tzeanania Ariyaw. et al. 2018 (C)

Zopfiaceae G. Arnaud ex D. Hawksw. 1992

Zopfia Rabenh. 1874 (H)^{#*}

Pleosporales genera *incertae sedis*

Aegeanispora E.B.G. Jones & Abdel-Wahab 2017 (C)
Antealophiotrema A. Hashim. & Kaz. Tanaka 2017 (H)^{#*}

Briansuttonia R.F. Castañeda et al. 2004 (H)
Camarographium Bubák 1916 (C)
Cerebella Ces. 1851 (H)
Chaetodiplodia P. Karst. 1884 (C)
Chaetophoma Cooke 1878 (C)
Cheiromoniliophora Tzean & J.L. Chen 1990 (H)
Crassiperidium M. Matsum. & Kaz. Tanaka 2018 (C)^{#*}
Cyclothyrium Petr. 1923 (C)
Dokmaia I. Promputtha 2003 (H)
Megacapitula J.L. Chen & Tzean 1993 (H)
Neocurreya Thambug. & K.D. Hyde 2017 (C)^{#*}
Paraepicoccum Matsush. 1993 (H)
Parameliola Hongsanan et al. 2016 (H)
Perthomyces Crous 2017 (C)
Phialophorophoma Linder 1944 (C)
Pseudohendersonia Crous & M.E. Palm 1999 (C)
Pyrenochaeta De Not. 1849 (C)
Repetophragma Subram. 1992 (H)
Scleroramularia Batzer & Crous 2011 (H)
Scolecobasidium E.V. Abbott 1927 (H)
Setophaeosphaeria Crous & Y. Zhang ter 2014 (C)^{#*}
Sirodesmium De Not. 1849 (C)
Spiroplana Voglmayr et al. 2011 (H)

Dothideomycetes* orders *incertae sedis

Abrothallales Pérez-Ort. & Suija

Lichenocconiaceae Diederich & Lawrey

Lichenoconium Petr. & Syd. 1927 (C)

Acrospermales Minter et al.

Acrospermaceae Fuckel

Acrosporum Tode 1783 with dactylaria-like asexual morph (H)^{#*}

Gonatophragmium Deighton 1969 (H)

Acrospermales* genus *incertae sedis

Pseudovirgaria H.D. Shin et al. 2007 (H)

Asterinales M.E. Barr ex D. Hawksw. & O.E. Erikss.

Asterinaceae Hansf.

Asterinella Theiss. 1912 with asteromella-like asexual morph (C)^{#*}

Prillieuxina G. Arnaud 1918 (C)^{#*}

Uleothyrium Petr. 1929 (C)^{#*}

Asterinales* genera *incertae sedis

Discopycnothyrium Hongsanan & K.D. Hyde 2017 (C)

Pirozynskiella S. Hughes 2007 (H)

Botryosphaeriales C.L. Schoch et al.

Aplosporellaceae Slippers et al.

Alanomyces Roh. Sharma 2017 (C)

Aplosporella Speg. 1880 (C)

Botryosphaeriaceae Theiss. & H. Syd.

- Alanphillipsia* Crous & M.J. Wingf. 2013 (C)
Barriopsis A.J.L. Phillips et al. 2008 (C)
Botryobambusa Phook. et al. 2012 (C)^{#*}
Botryosphaeria Ces. & De Not. 1863 (C)^{#*}
Cophinforma Doilom et al. 2012 (C)^{#*}
Diplodia Fr. 1834 (C)^{#*}
Dothiorella Sacc. 1880 (= *Spencermartinsia* A.J.L. Phillips et al. 2008) (C)^{#*}
Endomelanconiopsis E.I. Rojas & Samuels 2008 (C)
Eutiarosporella Crous 2015 (C)^{#*}
Lasiodiplodia Ellis & Everh. 1896 (C)^{#*}
Macrophomina Petr. 1923 (C)
Marasasiomyces Crous 2015 (C)
Microdiplodia Allesch. 1901 (C)
Mucoharknessia Crous et al. 2015 (C)
Neodeightonia C. Booth 1970 (C)^{#*}
Neofusicoccum Crous et al. 2006 (C)^{#*}
Neoscytalidium Crous & Slippers 2006 (C)
Oblongocollomyces Tao Yang & Crous 2017 (C)
Phaeobotryon Theiss. & Syd. 1915 (C)^{#*}
Sakireeta Subram. & K. Ramakr. 1957 (C)
Sardiniella Linaldeddu et al. 2016 (C)
Sphaeropsis Sacc. 1880 (C)^{#*}
Tiarosporella Höhn. 1919 (C)

Melanopsaceae Phillips et al.

- Melanops* Nitschke 1870 (C)^{#*}

Phyllostictaceae Fr. (= *Pseudofusicoccumaceae* Tao Yang & Crous)

- Phyllosticta* Pers. 1818 (C)^{#*}
Pseudofusicoccum Mohali et al. 2006 (C)

Planistromellaceae M.E. Barr

- Kellermania* Ellis & Everh. 1885 (C)^{#*}
Umthunziomyces Crous & M.J. Wingf. 2016 (C)

Saccharataceae Slippers et al. (= *Septorioideaceae* Wyka & Broders)

- Neoseptorioides* Crous et al. 2015 (C)
Pileospora Tanney & Seifert 2019 (C)
Saccharata Denman & Crous 2004 (C)^{#*}
Septorioides Quaedvl. et al. 2013 (C)

Cladioriellales Crous

Cladoriellaceae Crous

- Cladoriella* Crous 2006 (H)

Collemopsidiales Pérez-Ortega

Xanthopyreniaceae Zahlbr.

- Collemopsidium* Nyl. 1881 (C)

Eremomycetales Pem & Hyde

Eremomycetaceae Malloch & Cain

Eremomyces Malloch & Cain 1971 (C)^{#*}

Eremomycetales genera *incertae sedis*

Arthrographis G. Cochet ex Sigler & J.W. Carmich. 1976 (H)

Jahnulales Pang et al.

Aliquandostipitaceae Inderbitzin

Brachiosphaera Nawawi 1976 (H)

Xylomyces Goos et al. 1977 (H)

Kirschsteiniotheliales Hern.-Restr. et al.

Kirschsteiniotheliaceae S. Boonmee & K.D. Hyde

Kirschsteiniothelia D. Hawksw. 1985 (H)^{#*}

Kirschsteiniotheliales genera *incertae sedis*

Brachysporiella Bat. 1952 (*Brachysporiella sensu lato*) (H)

Microthyriales G. Arnaud

Microthyriaceae Sacc.

Neoanungitea Crous 2017 (H)

Pseudopenidiella Crous & Koukol 2012 (H)

Microthyriales genera *incertae sedis*

Heliocephala V.G. Rao et al. 1984 (H)

Neoscolecobasidium Crous 2016 (H)

Parazalerion Madrid et al. 2019 (H)

Minutisphaerales Raja et al.

Acrogenosporaceae Jayasiri & K.D. Hyde

Acrogenospora M.B. Ellis 1971 (H)^{#*}

Monoblastiales Lücking et al.

Monoblastiaceae Walt. Watson

Acrocordia A. Massal. 1854 (C)^{#*}

Anisomeridium (Müll. Arg.) M. Choisy 1928 (C)^{#*}

Caprettia Bat. & H. Maia 1965 (C)^{#*}

Funbolia Crous & Seifert 2011 (H)

Italiofungus Crous 2020 (C)

Megalotremis Aptroot 1991 (C)^{#*}

Monoblastia Riddle 1923 (C)^{#*}

Pseudopassalora Crous 2011 (H)

Trypetheliopsis Asahina 1937 (C)^{#*}

Murramarangomycetales Crous

Murramarangomycetaceae Crous

Murramarangomyces Crous 2017 (H)

Muyocopronales Mapook et al.

Muyocopronaceae K.D. Hyde

Arxiella Papendorf 1967 (H)

Leptodiscella Papendorf 1969 (H)

Paramycoleptodiscus Crous & M.J. Wingf. 2016 (C)

Mycoleptodiscus Ostaz. 1968 (H)
Neocochlearomyces Pinruan et al. 2019 (H)
Neomycoleptodiscus Pinruan et al. 2019 (H)

Stigmatodiscales Voglmayr & Jaklitsch

Stigmatodiscaceae Voglmayr & Jaklitsch

Stigmatodiscus Voglmayr & Jaklitsch 2016 (= *Asterodiscus* Voglmayr et al. 2016) (C)^{#*}

Strigulales Lücking et al.

Strigulaceae Zahlbr

Dichoporis Clem. 1909 (C)^{#*}
Flagellostrigula Lücking et al. 2020 (C)^{*}
Flavobathelium Lücking et al. 1997 (C)^{#*}
Phyllobathelium (Müll. Arg.) Müll. Arg. 1890 (C)^{#*}
Phyllocharis Fée 1825 (C)^{#*}
Phylloporis Clem. 1984 (C)^{#*}
Puiggariella Speg. 1881 (C)^{#*}
Raciborskiella Höhnelt 1909 (C)^{#*}
Racoplaca Fée 1825 (C)^{#*}
Serussiauxiella S.H. Jiang et al. 2020 (C)^{#*}
Strigula Fr. 1823 (C)^{#*}

Tenuitholiascaceae S.H. Jiang et al.

Tenuitholiascus S.H. Jiang et al. 2020 (C)^{#*}

Superstratomyetales van Nieuwenhuijzen et al.

Superstratomyetaceae van Nieuwenhuijzen et al.

Superstratomyces van Nieuwenhuijzen et al. 2017 (C)

Trypetheliales Lücking et al.

Trypetheliaceae Zenker

Astrothelium Eschw. 1824 (C)^{#*}
Bogoriella Zahlbr. 1928 (C)^{#*}
Dictyomeridium Aptroot et al. 2016 (C)^{#*}
Nigrovothelium Lücking et al. 2016 (C)^{#*}
Polymeridium (Müll. Arg.) R.C. Harris 1980 (C)^{#*}
Pseudobogoriella Lücking et al. 2020 (C)^{#*}
Pseudopyrenula Müll. Arg. 1883 (C)^{#*}
Viridothelium Lücking et al. (C)^{#*}

Tubeufiales Boonmee & K.D. Hyde

Tubeufiaceae M.E. Barr

Acanthohelicospora Boonmee & K.D. Hyde 2014 (H)^{#*}
Aquaphila Goh et al. 1998 (H)^{#*}
Artocarpomyces Subram. 1996 (H)
Berkleasium Zobel 1854 (H)^{#*}
Camporesiomyces D.P. Wei et al. 2020 (H)^{#*}
Chlamydotubeufia Boonmee & K.D. Hyde 2011 (H)^{#*}
Dematiohelicoma Y.Z. Lu et al. 2018 (H)
Dematiohelicomyces Y.Z. Lu et al. 2018 (H)
Dematiohelicosporum Y.Z. Lu et al. 2018 (H)
Dictyospora Brahamanage et al. 2017 (H)^{#*}

Helicangiospora Boonmee et al. 2014 (H)^{#*}
Helicoarctatus Y.Z. Lu et al. 2018 (H)
Helicodochium J.S. Monteiro et al. 2014 (H)
Helicohyalinum Y.Z. Lu et al. 2018 (H)
Helicoma Corda 1837 (H)^{#*}
Helicomycetes Link 1809 (H)^{#*}
Helicosporium Nees 1816 (H)^{#*}
Helicotruncatum Y.Z. Lu et al. 2018 (H)
Helicotubeufia Y.Z. Lu & J.K. Liu 2018 (H)^{#*}
Kamalomyces R.K. Verma et al. 2008 (H)^{#*}
Kevinhydea N.G. Liu et al. 2019 (H)
Manoharachariella Bagyan. et al. 2009 (H)
Muripulchra Z.L. Luo et al. 2017 (H)
Neoacanthostigma Boonmee et al. 2014 (H)^{#*}
Neochlamydotubeufia Y.Z. Lu et al. 2018 (H)^{#*}
Neohelicomyces Z.L. Luo et al. 2017 (H)
Neohelicosporium Y.Z. Lu et al. 2017 (H)
Pleurohelicosporium Y.Z. Lu et al. 2018 (H)
Podonectria Petch 1921 (H)^{#*}
Pseudohelicomyces Y.Z. Lu et al. 2018 (H)
Pseudohelicoon Y.Z. Lu & K.D. Hyde 2018 (H)
Tamhinispora K.C. Rajeshk. & Rahul Sharma 2013 (H)
Thaxteriellopsis Sivan. 1977 (H)^{#*}
Tubeufia Penz. & Sacc. 1898 (H)^{#*}

***Wiesneriomycetaceae* Suetrong et al.**

Parawiesneriomyces Crous & M.J. Wingf. 2016 (H)
Phalangispora Nawawi & J. Webster 1982 (H)
Pseudogliophragma Phadke & V.G. Rao 1980 (H)
Setosynnema D.E. Shaw & B. Sutton 1985 (H)
Speiropsis Tubaki 1958 (H)
Wiesneriomyces Koord. 1907 (H)

***Valsariales* Jaklitsch et al.**

***Valsariaceae* Jaklitsch et al.**

Bambusaria Jaklitsch et al. 2015 (C)^{#*}
Valsaria Ces. & De Not. 1863 (C or H)^{#*}

***Venturiales* Yin. Zhang et al.**

***Sympoventuriaceae* Yin. Zhang et al.**

Acroconidiellina (Berk. & Broome) M.B. Ellis 1971 (H)
Bellamyces Crous et al. 2020 (H)
Fuscohilum Crous et al. 2020 (H)
Fusicladium Bonord. 1851 (H)
Matsushimaea Subram. 1978 (H)
Mycosisymbrium Carris 1994 (H)
Neofusicladium Crous et al. 2020 (H)
Ochroconis de Hoog & Arx 1974 (H)^{#*}
Parafusicladium Crous et al. 2020 (H)
Pinaceicola Crous et al. 2020 (H)
Sympoventuria Crous & Seifert 2007 (H)^{#*}
Sterila Crous et al. 2020 (H)

Veronaeopsis Arzanlou & Crous 2007 (H)
Verruconis Samerp. et al. 2014 (H)
Yunnanomyces Tibpromma & K.D. Hyde 2018 (H)

Venturiaceae E. Müll. & Arx ex M.E. Barr

Apiosporina Höhn. 1910 with cladosporium-like asexual morph (H)^{#*}
Caproventuria U. Braun 1998 (H)^{#*}
Fagicola Crous et al. 2020 (H)
Fraxinicola Crous et al. 2020 (C)
Magnohelicospora R.F. Castañeda et al. 2013 (H)
Protoventuria Berl. & Sacc. 1887 (H)^{#*}
Pseudoanungitea Crous 2018 (H)

Venturiales genera *incertae sedis*

Cylindrosympodioides Crous & M.J. Wingf. 2016 (H)
Cylindrosyndrium W.B. Kendr. & R.F. Castañeda 1990 (H)

Zeloasperisporiales Hongsanan & K.D. Hyde

Zeloasperisporiaceae Crous
Zeloasperisporium R.F. Castañeda 1996 (H)^{#*}

Dothideomycetes families *incertae sedis*

Alinaceae Boonmee & K.D. Hyde
Alina Racib 1909 (H)^{#*}

Ascoporiaceae Kutorga & D. Hawksw.

Pseudosolidum Lloyd 1923 with plectophomella-like asexual morph (H)^{#*}

Balladynaceae Boonmee & K.D. Hyde

Balladyna Racib. 1900 (H)^{#*}

Cleistosphaeraceae Boonmee & K.D. Hyde

Cleistosphaera Syd. & P. Syd. 1916 (C)^{#*}

Dimeriaceae E. Müll. & Arx ex Arx & E. Müll.

Dimerium (Sacc. & P. Syd.) McAlpine 1903 (H)^{#*}

Dubujianaceae D. Pem et al.

Dubujiana D.R. Reynolds & G.S. Gilbert 2005 (C)

Dysrhynchisceae Boonmee & K.D. Hyde

Dysrhynchis Clem. (H)^{#*}

Endosporiaceae D. Pem

Endosporium Tsuneda 2008 (H)

Englerulaceae Henn.

Sarcinella Sacc. 1880 (H)^{#*}

Homortomycetaceae Thambug. et al.

Homortomyces Crous & M.J. Wingf. 2012 (C)^{#*}

Leptopeltidaceae Höhn. ex Trotter

Dothiopeltis E. Müll. 1957 with idriella-like asexual morph (H)^{#*}

Leptopeltis Höhn. 1917 with leptothyrium-like asexual morph (C)^{#*}

Naetrocymbaceae Höhn.

Leptorhaphis Körb. 1855 (H)^{#*}

Neoparodiaceae Boonmee & K.D. Hyde

Neoparodia Petr. & Cif. 1932 (H)^{#*}

Paranectriellaceae S. Boonmee & K.D. Hyde

Paranectriella (Henn. ex Sacc. & D. Sacc.) Höhn. 1910 (H)^{#*}

Puttemansia Henn. 1902 (H)^{#*}

Parodiellaceae Theiss. & Syd. ex M.E. Barr

Parodiella Speg. 1880 (C)^{#*}

Perisporiopsidaceae E. Müll. & Arx ex R. Kirschner & T.A. Hofm.

Perisporiopsis Henn. 1904 (H)^{#*}

Phaeodimeriellaceae Boonmee et al.

Phaeodimeriella Speg. 1908 (C)^{#*}

Polystomellaceae Theiss. & P. Syd.

Dothidella Speg. 1880 (C)^{#*}

Pseudoperisporiaceae Toro

Lasiostemma Theiss. et al. 1917 (C)^{#*}

Pseudorobillardaceae Crous

Pseudorobillarda M. Morelet 1968 (C)

Thyrinulaceae X.Y. Zeng et al.

Blastacervulus H.J. Swart 1988 (C)

Paraopeba V.P. Abreu et al. (H)

Thyrinula Petr. & Syd. 1924 (C)

Vizellaceae H.J. Swart

Blasdalea Sacc. & P. Syd. 1902 (C)^{#*}

Vizella Sacc. 1883 (C)^{#*}

Dothideomycetes genera *incertae sedis*

Acanthorus Bat. & Cavalc. 1967 (C)

Ampullifera Deighton 1960 (H)

Anguillosporella U. Braun 1995 (H)

Asterodothis Theiss. 1912 (C)^{#*}

Asteromella Pass. & Thüm. 1880 (C)

Bahusakala Subram. 1958 (H)

Botryohypoxylon Samuels & J.D. Rogers 1986 (C)^{#*}

Brachyconidiella R.F. Castañeda & W.B. Kendr. 1990 (H)

Brooksia Hansf. 1956 (H)^{#*}

Ceratophoma Höhn. 1917 (C)

Chuppia Deighton 1965 (H)
Clavariopsis De Wild. 1895 (H)
Coniosporium Link 1809 (H)
Cryomyces Selbmann et al. 2005 (H)
Dactuliophora C.L. Leakey 1964 (H)
Dothichiza Lib. ex Roum. 1880 (C)
Eriomycopsis Speg. 1910 (H)
Eriothyrium Speg. 1888 (C)
Eupelte Syd. 1924 (H)^{#*}
Excipulariopsis P.M. Kirk & Spooner 1982 (H)^{#*}
Fusicladiella Höhn. 1919 (H)
Hansfordiella S. Hughes 1951 (H)
Hansfordiellopsis Deighton 1960 (H)
Heptaster Cif. et al. 1956 (H)
Heteroconium Petr. 1949 (H)
Kabatia Bubák 1904 (C)
Krishnamyces Hosag. 2003 (C)
Lignosphaeria Boonmee et al. 2015 (C)^{#*}
Marquesius L.B. Conç. et al. 2018 (H)
Monodictys S. Hughes 1958 (H)
Neodactylaria Guevara-Suarez et al. 2017 (H)
Neoovularia U. Braun 1992 (H)
Neoramularia U. Braun 1991 (H)
Neosporidesmium Mercado & J. Mena 1988 (H)
Neottiosporina Subram. 1961 (C)
Oncopodiella G. Arnaud ex Rifai 1965 (H)
Ophiotrichum Kunze 1849 (H)
Peltaster Syd. & P. Syd. 1917 (C)
Peltasterella Bat. & H. Maia 1959 (C)
Pendulispora M.B. Ellis 1961 (H)
Phaeosclera Sigler et al. 1981 (H)
Placosphaeria (De Not.) Sacc. 1880 (C)
Proliferosphaera T.P. Devi 2012 (C)
Pseudoarthrographis Crous & Thangavel 2018 (H)
Radulidium Arzanlou et al. 2007 (H)
Rupestriomyces Lei Su et al. 2015 (H)
Saxomyces L. Selbmann & D. Isola 2014 (H)
Scleroconidioma Tsuneda et al. 2000 (H)
Scolecoxyphium Cif. & Bat. 1956 (C)
Solicorynespora R.F. Castañeda & W.B. Kendr. 1990 (H)
Soloacrosporiella Crous & M.J. Wingf. 2015 (H)
Spissiomycetes Lei Su et al. 2015 (H)
Trichometasphaeria Munk 1953 (C)^{#*}
Troposporella P. Karst. 1892 (H)
Xenosporium Penz. & Sacc. 1901 (H)

Class Eurotiomycetes Tehler ex O.E. Eriksson & K. Winka

Subclass Chaetothyriomycetidae Doweld

Chaetothyriales M.E. Barr

Chaetothyriaceae Hansf. ex M.E. Barr

Aithaloderma Syd. et al. 1913 (H)^{#*}

Anthracina L. Su et al. 2020 (H)

Aphanophora Réblová et al. 2013 (H)
Arthrophia (D.J. Soares et al.) W.S. Lisboa et al. 2016 (H)
Campthophora Réblová & Unter. 2013 (H)^{#*}
Ceramothyrium Bat. & H. Maia 1956 (= *Stanhughesia* Constant.) (H)^{#*}
Chaetothyrium Speg. 1888 (C)^{#*}
Cyphellophoriella Crous & A. J. Smith 2015 (H)
Nullicamyses Crous 2018 (H)
Stanhughesia Constant 1989 (H)
Vonarxia Bat. 1960 (H)

Coccodiniaceae Höhn. ex O.E. Erikss.
Coccodinium A. Massal 1860 (H)^{#*}
Microxiphium (Harv. ex Berk. & Desm.) Thüm. 1879 (H)^{#*}

Cyphellophoraceae Réblová & Unter.
Anthopsis Fil. March. et al. 1977 (H)
Cyphellophora G.A. de Vries 1962 (H)^{#*}

Herpotrichiellaceae Munk
Aculeata W. Dong et al. 2018 (H)
Brycekendrickomyces Crous & M.J. Wingf. 2009 (H)
Cladophialophora Borelli 1980 (H)
Exophiala J.W. Carmich. 1966 (H)
Fonsecaea Negroni 1936 (H)
Marinophialophora J.F. Li et al. 2018 (H)
Melanoctona Qing Tian et al. 2016 (H)
Metulocladosporiella Crous et al. 2006 (H)
Minimelanolocus R.F. Castañeda et al. 2001 (H)
Neosorocybe Crous & Akulov 2020 (H)
Phialophora Medlar 1915 (H)
Nadsoniella Issatsch. 1914 (H)
Phialophora Medlar 1915 (H)
Rhinocladella Nannf. 1934 (H)
Sorocybe Fr. 1849 (H)
Thysanorea Arzanlou et al. 2007 (H)
Veronaea Cif. & Montemart. 1957 (H)

Lyrommataceae Lücking
Lyromma Bat. & H. Maia 1965 (C)

Paracladophialophoraceae Crous
Paracladophialophora Crous 2016 (H)

Pyrenotrichaceae Zahlbr
Neophaeococcomyces Crous et al. 2015 (H)

Strelitzianaceae Crous & M.J. Wingf.
Neophaeococcomyces Crous et al. 2015 (H)
Strelitziana Arzanlou et al. 2006 (H)

Trichomeriaceae Chomnunti & K.D. Hyde
Arthrocladium Papendorf 1969 (H)

Bradomyces Hubka et al. 2014 (H)
Knufia L.J. Hutchison & Unter. 1996 (H)
Lithohypha Selbmann & Isola 2017 (H)
Lithophila Selbmann et al. 2019 (H)
Neostrelitziana Crous et al. 2015 (H)
Strelitziana Arzanlou et al. 2006 (H)
Trichomerium Speg. 1918 (H)*

***Chaetothyriales* genera incertae sedis**

Atrokyliindriopsis Y.R. Ma & X.G. Zhang 2015 (H)
Bacillicladium Hubka et al. 2016 (H)
Lichenodiplis Dyko & D. Hawksw. 1979 (C)
Lichenodiplisiella S.Y. Kondr. & Kudratov 2002 (C)
Melnikomyces Crous & U. Braun 2014 (H)
Minutoexcipula V. Atienza & D. Hawksw. 1994 (H)
Muellerella Hepp et al. 1862 (C)*
Sarcinomyces Lindner 1898 (H)
Uncispora R.C. Sinclair et al. 1979 (H)

***Phaeomoniellales* K.H. Chen et al.**

***Celotheliaceae* Lücking et al. (= *Phaeomoniellaceae* P.M. Kirk)**

Aequabiliella Crous 2015 (C)
Celerioriella Crous 2015 (H)
Minutiella Crous 2015 (H)
Neophaeomoniella Rooney-Latham & Crous 2015 (C)
Paraphaeomoniella Crous 2015 (C)
Phaeomoniella Crous & W. Gams 2000 (H)
Pseudophaeomoniella Nigro et al. 2015 (C)
Xenocylindrosporium Crous & Verkley 2009 (C)

***Phaeomoniellales* genus incertae sedis**

Vredendaliella C.F.J. Spies et al. 2020 (C)

***Pyrenulales* Fink ex D. Hawksw. & O.E. Erikss.**

***Verrucariaceae* Zenker**

Phaeospora Hepp et al. 1867 (H)

***Verrucariales* genera incertae sedis**

Botryolepraria Canals et al. 1997 (H)

***Chaetothyriomycetidae* family incertae sedis**

***Rhynchostomataceae* Winka & O.E. Erikss.**

Dolabra C. Booth et al. 1964 with rhabdospora-like asexual morph (C)*

Subclass *Eurotiomycetidae* Geiser & Lutzoni

***Arachnomycetales* Gibas et al.**

***Arachnomycetaceae* Gibas et al.**

Arachnomycetes Massee et al. 1902 (H)

Onychocola Sigler 1990 (H)

***Eurotiales* G.W. Martin ex Benny & Kimbr.**

***Aspergillaceae* Link**

Aspergillus P. Micheli ex Link 1809 (H)^{#*}
Dichlaena Durieu et al. 1848 (H)^{#*}
Hamigera Stolk & Samson 1971 (H)^{#*}
Monascus Tiegh. 1884 (H)^{#*}
Penicillago Guevara-Suarez et al. 2020 (H)
Penicilliopsis Solms et al. 1887 (H)^{#*}
Penicillium Link 1809 (H)^{#*}
Phialomyces P.C. Misra & P.H.B. Talbot 1964 (H)
Pseudopenicillium Guevara-Suarez et al. 2020 (H)
Pseudohamigera Houbraken et al. 2020 (H)
Sclerocleista Subram. 1972 (H)^{#*}
Xerochrysium Pitt 2013 (H)
Xeromyces Fraser et al. 1953 (H)^{#*}

***Thermoascaceae* Apinis**

Paecilomyces Bainier 1907 (H)^{#*}
Thermoascus Miehe 1907 (H)^{#*}

***Trichocomaceae* E. Fisch.**

Acidotalaromyces Houbraken et al. 2020 (H)
Ascospirella Houbraken et al. 2020 (H)
Evansstolkia Houbraken et al. 2020 (H)
Rasamsonia Houbraken et al. 2011 (H)^{#*}
Sagenomella W. Gams 1978 (H)
Talaromyces C.R. Benj. 1955 (H)^{#*}
Thermomyces Tsikl. 1899 (H)

***Onygenales* Cif. ex Benny & Kimbr.**

***Ajellomycetaceae* Untereiner et al.**

Blastomyces Gilchrist & W.R. Stokes 1898 (H)
Emergomyces Dukik et al. 2017 (Y)
Emmonsiiellopsis Y. Marín et al. 2015 (H)
Histoplasma Darling 1906 (H)
Lacazia Taborda et al. 1999 (H)
Paracoccidioides F.P. Almeida 1930 (H)

***Arthrodermataceae* Currah**

Epidermophyton Sabour. 1907 (H)
Guarromyces Y Gräser & de Hoog 2018 (H)
Microsporum Gruby 1843 (H)
Nannizzia Stockdale 1961 (H)
Paraphyton Gräser et al. 2018 (H)
Trichophyton Malmsten 1848 (H)

***Ascosphaeraceae* L.S. Olive & Spiltoir**

Ascosphaera L.S. Olive et al. 1955 with chrysosporium-like asexual morph (H)^{#*}
Bettsia Skou 1972 with chrysosporium-like asexual morph (H)^{#*}

***Gymnoascaceae* Baran.**

Gymnascella Peck 1884 (H)^{#*}
Oncocladium Wallr. 1833 (H)
Orromyces B. Sur et al. 1987 with chrysosporium-like asexual morph (H)^{#*}

Nannizziopsidaceae Guarro et al.

Nannizziopsis Currah 1985 (H)^{#*}

Onygenaceae Berk.

Auxarthronopsis Rah. Sharma et al. 2013 (H)^{#*}

Canomyces Rahul Sharma & Shouche 2020 (C)

Chrysosporium Corda 1833 (H)

Coccidioides G.W. Stiles 1896 (H)

Malbranchea Sacc. 1882 (H)

Myriodontium Samson & Polon. 1978 (H)

Neogymnomycetes G.F. Orr 1970 (H)^{#*}

Ophidiomyces Sigler et al. 2013 (H)

Paranannizziopsis Sigler et al. 2013 (H)

Pectinotrichum Varsavsky et al. 1971 (H)

Sporendonema Desm. 1827 (H)

Spiromastigaceae Hirooka et al.

Pseudospiromastix Guarro et al. 2016 (H)^{#*}

Sigleria Hirooka et al. 2016 (H)

Spiromastigoides Doweld 2013 (= *Spiromastix* Kuehn & G.F. Orr) (H)^{#*}

Onygenales genera *incertae sedis*

Arthrospis Sigler et al. 1982 (H)

Ovadendron Sigler et al. 1976 (H)

Sphaerosporium Schwein. 1832 (H)

Subclass *Mycocaliciomycetidae* Tibell

Mycocaliciales Tibell & Wedin

Mycocaliciaceae A.F.W. Schmid

Brunneocarpos Giraldo & Crous 2016 (H)^{#*}

Chaenothecopsis Vain. 1927 (H)^{#*}

Mycocalicium Vain. ex Reinke 1890 (H)^{#*}

Sclerococomycetidae Réblová et al.

Sclerococcales Réblová et al.

Dactylosporaceae Bellem. & Hafellner (= *Sclerococcaceae* Réblová et al.)

Cylindroconidiis Zhang et al. 2018(H)

Fusichalara Hughes et al. 1973 (H)

Gamsomyces Hern.-Restr. & Réblová 2020 (H)

Pseudobactrodesmium H. Zhang et al. 2020 (H)

Rhopalophora Réblová et al. 2016 (H)

Sclerococcum Fr. 1825 (= *Dactylospora* Körb.) (H)

Eurotiomycetes genera *incertae sedis*

Cirrosporium S. Hughes 1980 (C)

Neocladothialophora Crous et al. 2014 (H)

Class *Laboulbeniomycetes* Engler

Laboulbeniales genus *incertae sedis*

Coreomycetopsis Thaxt. 1920 (H)

Pyxidiophorales P.F. Cannon

***Pyxidiophoraceae* Arnold**

Gliocephalis Matr. 1899 (H)

Pleurocatena G. Arnaud ex Aramb. et al. 2007 (H)

Class *Lecanoromycetes* O.E. Erikss. & Winka

Subclass *Ostropomycetidae* Reeb et al.

***Ostropales* Nannf.**

***Stictidaceae* Fr.**

Acarosporina Sherwood 1977 with phacidiella-like asexual morph (C)^{#*}

Cyanodermella O.E. Erikss. 1981 (C)

Fitzroyomyces Crous 2017 (H)

Glomerobolus Kohlm. & Volkm.-Kohlm. 1996 (H)

Neofitzroyomyces Crous 2018 (H)

Stictis Pers. 1800 (= *Stictospora* Cif.) (C)^{#*}

Stictophacidium Rehm 1888 with coleophoma-like asexual morph (C)^{#*}

Subclass *Lecanoromycetidae* P.M. Kirk et al.

***Lecanorales* Nannf.**

***Stereocaulaceae* Chevall.**

Lepraria Ach. 1803 (C)

Lecanorales* genus *incertae sedis

Lichenosticta Zopf 1898 (C)

***Leprocaulales* Lendemer & B.P. Hodk.**

***Leprocaulaceae* Lendemer & B.P. Hodk.**

Leprocaulon Nyl. 1878 (C)

***Ostropales* Nannf.**

***Graphidaceae* Dumort.**

Rubikia H.C. Evans & Minter 1985 (C)

Ostropales* genera *incertae sedis

Elongaticonidia W.J. Li et al. 2020 (C)

Mulderomyces Crous et al. 2016 (C)

***Peltigerales* Walt. Watson**

***Collemataceae* Zenker**

Paracollemma Otálora & Wedin 2014 (C)^{#*}

Lecanoromycetes* order *incertae sedis

***Micropeltidales* X.Y. Zeng, H.X. Wu & K.D. Hyde**

***Micropeltidaceae* Clem. & Shear**

Cyclopeltella Petr. 1953 (C)^{#*}

Stomiopeltis Theiss. 1914 (as *Akaropeltella* M.L. Farr 1972) with sporidesmium-like asexual morph (H)^{#*}

Class *Leotiomycetes* O.E. Erikss. & Winka

***Chaetomellales* Crous & Denman**

***Chaetomellaceae* Baral et al.**

Chaetomella Fuckel 1870 (C)^{#*}

Pilidium Kunze 1823 (C)^{#*}

Sphaerographium Sacc. 1884 (C)
Synchaetomella Decock & Seifert 2005 (H)

Helotiales Nannf. (= *Erysiphales* Gwynne-Vaughan)
Amorphothecaceae Parbery
Amorphotheca Parbery 1969 (H)^{#*}

Ascodichaenaceae D. Hawksw. & Sherwood
Ascodichaena Butin 1977 (C)^{#*}

Bloxamiaceae Locq.
Bloxamia Berk. & Broome 1854 (H)^{#*}

Calloriaceae Marchand
Calloria Fr. 1836 (H)^{#*}

Cenangiaceae Rehm
Crumenulopsis J.W. Groves 1969 (C)^{#*}
Mycosphaerangium Verkley 1999 (C)^{#*}
Neomelanconium Petr. 1940 (C)^{#*}
Rhabdocline Syd. 1922 (H)^{#*}

Chlorociboriaceae Baral & P.R. Johnst.
Chlorociboria Seaver ex Ramamurthi et al. 1958 (C)^{#*}

Cordieritidaceae Sacc.
Diplolaeviopsis Giralt & D. Hawksw. 1991 (C)
Sabahiopsis Crous & M.J. Wingf. 2015 (H)
Unguiculariopsis Rehm 1909 (C)^{#*}

Dermateaceae Fr.
Coleophoma Höhn. 1907 (C)
Corniculariella P. Karst. 1884 (C)
Dermea Fr. 1825 (C)^{#*}
Neodermea W.J. Li et al. 2020 (C)
Neofabraea H.S. Jacks. 1913 (C)^{#*}
Neogloeosporidina W.J. Li et al. 2020 (C)
Pezicula Tul. & C. Tul. 1865 (C)^{#*}
Phlyctema Desm. 1847 (C)
Pseudofabraea Chen et al. 2016 (C)
Verkleyomyces Y. Marín & Crous 2017 (C)^{#*}
Xenochalara M.J. Wingf. & Crous 2000 (H)

Discinellaceae Ekanayaka & K.D. Hyde
Articulospora Ingold 1942 (H)
Cladochasiella Marvanová 1997 (H)
Fontanospora Dyko 1978 (H)
Gyoerffyella Kol 1928 (H)
Lemonniera De Wild. 1894 (H)
Margaritispora Ingold 1942 (H)
Pseudopezicula Korf 1986 with phialophora-like asexual morph (H)^{#*}
Tetrachaetum Ingold 1942 (H)

Varicosporium W. Kegel 1906 (H)

***Drepanopezizaceae* Baral**

Blumeriella Arx 1961 (C)^{#*}

Diplocarpon F.A. Wolf 1912 (C) or (H)^{#*}

Leptotrochila P. Karst. 1871 (C)^{#*}

***Erysiphaceae* Tul. & C. Tul.**

Blumeria Golovin ex Speer 1975 (H)^{#*}

Bulbomicroidium Marm. et al. 2017 (H)

Erysiphe R. Hedw. ex DC. 1805 (H)^{#*}

Leveillula G. Arnaud 1921 (H)^{#*}

Neoerysiphe U. Braun 1999 (H)^{#*}

Microidium (To-anun & S. Takam.) To-anun & S. Takam. 2012 (H)

Phyllactinia Lév. 1851 (H)^{#*}

Pleochaeta Sacc. & Speg. 1881 (H)^{#*}

Podosphaera Kunze 1823 (H)^{#*}

Sawadaea Miyabe 1914 (H)^{#*}

***Gelatinodiscaceae* S.E.Carp**

Ascocoryne J.W. Groves & D.E. Wilson 1967 (H)^{#*}

Dimorphospora Tubaki 1958 (H)

Neobulgaria Petr. 1921 with myrioconium-like or phialophora-like asexual morph (H)^{#*}

Xerombrophila Baral 2013 (H)^{#*}

***Godroniaceae* Baral**

Ascocalyx Naumov 1926 (C)^{#*}

Godronia Moug. & Lév. 1846 (C)^{#*}

Gremmeniella M. Morelet 1969 (C)^{#*}

***Helotiaceae* Rehm**

Ascoconidium Seaver 1942 (H)^{#*}

Filosporella Nawawi 1976 (H)

Geniculospora Sv. Nilsson ex Marvanová & Sv. Nilsson 1971 (H)

Glarea Bills & Paláez 1999 (H)

Gloeotinia M. Wilson et al. 1954 (H)^{#*}

Helicodendron Peyronel 1918 (H)

Hymenoscyphus Gray 1821 (H)^{#*}

Mycofalcella Marvanová et al. 1993 (H)

Neocrinula Crous 2016 (H)

Scytalidium Pesante 1957 (H)^{#*}

Symphyosirinia E.A. Ellis 1956 (H)^{#*}

Tricladium Ingold 1942 (H)

***Heterosphaeriaceae* Rehm**

Heterosphaeria Grev. 1824 (C)^{#*}

***Hyaloscyphaceae* Nannf.**

Arbusculina Marvanová & Descals 1987 (H)

Cistella Qué. 1886 (H)^{#*}

Clathrosphaerina Beverw. 1951 (H)

Crucellisporiopsis Nag Raj 1983 (C)

Dematioscypha Svrček 1977 (H)^{#*}
Hyalopeziza Fuckel 1870 (H)^{#*}
Hyaloscypha Boud. 1885 (H)^{#*}
Hyphodiscus Kirschst. 1906 (H)^{#*}
Mycoarthris Marvanová & P.J. Fisher 2002 (H)

Leptodontidiaceae Hern.-Restr. et al.
Leptodontidium de Hoog. 1979 (H)

Mollisiaceae Rehm
Barrenia E. Walsh & N. Zhang 2015 (H)
Cheirospora Moug. & Fr. 1825 (C)
Cystodendron Bubák 1914 (H)
Fuscosclera Hern.-Restr. et al. 2017 (H)
Mollisia (Fr.) P. Karst. 1871 (H)^{#*}
Phialocephala W.B. Kendr. 1961 (H)^{#*}
Trimmatostroma Corda 1837 (H)
Variocladium Descals & Marvanová (H)

Myxotrichaceae Currah
Oidiodendron Robak 1932 (H)

Neolauriomycetaceae Crous
Exochalara W. Gams & Hol.-Jech. 1976 (H)
Lareunionomyces Crous & M.J. Wingf. 2016 (H)
Neolauriomycetes Crous 2018 (H)

Pezizellaceae Velen.
Calycellina Höhn 1918 (H)^{#*}
Chalara (Corda) Rabenh. 1844 (H)
Ciliolarina Svrcek 1977 (H)^{#*}
Scleropezicula Verkley 1999 (C)^{#*}
Curviclavula G. Delgado et al. 2015 (H)
Hyalodendriella Crous 2007 (H)
Xenopolyscytalum Crous 2010 (H)
Zymochalara Guatim. et al. 2016 (H)

Ploettnerulaceae Kirschst.
Cadophora Lagerb. & Melin (H)
Collembolispora Marvanová & Pascoal 2003 (H)
Mastigosporium Riess 1852 (H)
Mycochaetophora Hara & Ogawa 1931 (H)
Oculimacula Crous & W. Gams 2003 (H)^{#*}
Pyrenopeziza Fuckel 1870 (C)^{#*}
Rhynchosporium Heinsen ex A.B. Frank 1897 (H)
Ypsilina J. Webster et al. 1999 (H)

Rutstroemiaceae Holst-Jensen et al.
Neometulocladosporella Crous & M.J. Wingf. 2018 (H)
Rutstroemia P. Karst. 1871 with phialophora-like asexual morph (H)^{#*}

Sclerotiniaceae Whetzel ex Whetzel

Amphobotrys Hennebert 1973 (H)
Botrytis P. Micheli ex Pers. 1794 (H)^{#*}
Cristulariella Höhn. 1916 (H)^{#*}
Grovesinia M.N. Cline et al. 1983 (H)^{#*}
Haradamyces Masuya et al. 2009 (H)
Monilinia Honey 1928 (H)^{#*}
Mycopappus Redhead & G.P. White 1985 (H)
Myrioconium Syd. & P. Syd. 1912 (H)
Ovulinia F.A. Weiss 1940 (H)^{#*}
Pycnopeziza W.L. White & Whetzel 1938 (C)^{#*}
Sclerotium Tode 1790 (H)
Seaverinia Whetzel 1945 (H)^{#*}
Septotinia Whetzel ex J.W. Groves & M.E. Elliott 1961 (H)^{#*}
Streptotinia Whetzel 1945 (H)^{#*}
Valdensia Peyronel 1923 (H)^{#*}

***Vibrisseaceae* Korf**

Acephala Grünig & T.N. Sieber 2005 (H)
Chlorovibrissea L.M. Kohn 1989 with phialophora-like asexual morph (H)^{#*}
Srinivasanomyces S. Rana & S.K. Singh 2020 (H)
Vibrissea Fr. 1822 (H)^{#*}

***Helotiales* genera incertae sedis**

Acidea Hujslová & M. Kolařík 2014 (H)
Acidomelania E. Walsh & N. Zhang 2014 (H)
Aphanodesmium Réblová & Hern.-Restr. 2020 (C)
Apiculospora Wijayaw. et al. 2016 (C)
Bioscypha Syd. 1927 with rhinocladiella-like asexual morph (H)^{#*}
Brachyalara Réblová & W. Gams 2011 (H)
Brefeldochium Verkley 2005 (H)
Clathrosporium Nawawi & Kuthub. 1987 (H)
Crucellisporium M.L. Farr 1968 (C)
Dactylaria Sacc. 1880 (H)
Fulvoflamma Crous 2006 (H)
Godroniopsis Diehl & E.K. Cash 1929 (C)^{#*}
Humicolopsis Cabral & S. Marchand 1976 (H)
Infundichalara Réblová & W. Gams 2011 (H)
Lareunionomyces Crous & M.J. Wingf. 2016 (H)
Libartania Nag Raj 1979 (C)
Monochaetiellopsis B. Sutton & DiCosmo 1977 (C)^{#*}
Phacidiella P. Karst. 1884 (C)
Rhexocercosporidium U. Braun 1994 (H)
Rhizocladosporium Crous & U. Braun 2007 (H)
Rhizothyrium Naumov 1915 (C)^{#*}
Soosiella Hujslová & M. Kolařík 2014 (H)
Spirosphaera Beverw. 1953 (H)
Stamnaria Fuckel 1870 (C)^{#*}
Strossmayeria Schulzer 1881 (H)^{#*}
Tetracladium De Wild. 1893 (H)
Theadgonia B. Sutton 1973 (H)
Tripasporium Corda 1837 (H)
Vandijckella Sandoval-Denis 2017 (H)

Lauriomycetales Hern.-Restr. et al.
Lauriomycetaceae Hern.-Restr. et al.
Lauriomyces R.F. Castañeda 1990 (H)
Leotiales Carpenter
Cochlearomycetaceae Crous
Cochlearomyces Crous 2017 (C)
Satchmopsis B. Sutton & Hodges 1975 (C)

Leotiaceae Corda
Halenospora E.B.G. Jones 2009 (H)
Miniancora Marvanová & Bärkl. 1989 (H)

Tympanidaceae Baral & Quijada
Claussenomyces Kirschst. 1923 (H)^{**}
Collophorina Damm & Crous 2017 (C)
Gelatinosporium Peck 1873 (C)
Pragmopora A. Massal 1855 (C)^{**}
Tympanis Tode 1790 (C)^{**}

***Leotiales* genera incertae sedis**
Alatospora Ingold 1942 (H)
Flagellospora Ingold 1942 (H)
Gelatinomyces N. Sanoamuang et al. 2013 (H)^{**}

Micraspidales Quijada & Tanney
Micraspidaceae Quijada & Tanney
Micraspis Darker 1963 (C)^{**}

Phacidiales C.E. Bessey
Helicogoniaceae Baral
Eleutheromycella Höhn. 1908 (C)
Eleutheromyces Fuckel 1870 (C)
Gelatinipulvinella Hosoya & Y. Otani 1995 (H)^{**}

Phacidiaceae Fr.
Allantophomopsiella Crous 2014 (C)
Allantophomopsis Petr. 1925 (C)
Phacidiopycnis Potebnia 1912 (C)^{**}
Phacidium Fr. 1815 (C)^{**}

***Phacidiales* genera incertae sedis**
Coma Nag Raj & W.B. Kendr. 1972 (C)^{**}

Rhytismatales M.E. Barr ex Minter
Rhytismataceae Chevall.
Hypohelion P.R. Johnst. 1990 (C)^{**}
Ploioderma Darker. 1967 (C)^{**}
Rhytisma Fr. 1818 (C)^{**}

Thelebolales P.F. Cannon
Pseudeurotiaceae Malloch & Cain
Geomyces Traaen 1914 (H)

Gymnostellatospora Udagawa et al. 1993 (C)

Thelebolaceae (Brumm.) Eckblad

Solomyces Zhi Y. Zhang et al. 2020 (H)

Leotiomyces families *incertae sedis*

Porodiplodiaceae Crous

Porodiplodia Crous 2018 (C)

Leotiomyces genera *incertae sedis*

Epiclادonia D. Hawksw. 1981 (C)

Gorgomyces M. Gönczöl & Révay 1985 (H)

Helicocentralis Sri-indr. et al. 2015 (H)

Holwaya Sacc. 1889 (H)*

Leohumicola N.L. Nick. 2005 (H)

Ocotomyces H.C. Evans & Minter 1985 (C)*

Trullula Ces. 1852 (C)

Class Orbiliomycetes O.E. Erikss. & Baral

Orbiliales Baral et al.

Orbiliaceae Nannf.

Arthrobotrys Corda 1939 (H)*

Dactylella Grove 1884 (H)

Dactylellina M. Morelet 1968 (H)

Drechslerella Subram. 1964 (H)

Gamsylella M. Scholler et al. 1999 (H)

Helicoön Morgan 1892 (H)

Hyalorbilia Baral & G. Marson 2001 (H)*

Orbilias Fr. 1836 (H)*

Pseudotriporiconidium Z.F. Yu & K.Q. Zhang 2011 (H)

Retiarius D.L. Olivier 1978 (H)

Vermispora Deighton & Piroz. 1972 (H)

Orbiliales genus *incertae sedis*

Microdochiella Hern.-Restr. & Crous 2015 (H)

Class Pezizomycetes sensu O.E. Erikss. & Winka

Pezizales J. Schröt.

Ascobolaceae Boud. ex Sacc.

Cubonia Sacc. 1889 with papulospore-like asexual morph (H)*

Ascodesmidaceae J. Schröt.

Cephalophora Thaxt. 1903 (H)

Caloscyphaceae Harmaja

Caloscypha Boud. 1885 (H)*

Chorioactidaceae Pfister

Desmazierella Lib. 1829 (H)*

Morchellaceae Reichenb.

Morchella Dill. ex Pers. 1794 (H)*

Pezizaceae Dumort. (= *Carbomycetaceae* Trappe)
Chromelosporiopsis Hennebert 2020 (H)

Pseudombrophilaceae Ekanayaka et al.
Heydenia Fresen. 1852 (H)

Pyronemataceae Corda
Tricharina Eckblad 1968 (H)^{#*}
Micronematobotrys Xiang Sun & L.D. Guo 2010 (H)
Miladina Svrček 1972 (H)^{#*}
Trichophaea Boud. 1885 (H)^{#*}

Rhizinaceae Bonord.
Phymatotrichopsis Hennebert 1973 (H)

Sarcoscyphaceae LeGal ex Eckblad
Sarcoscypha (Fr.) Boud. 1885 (H)^{#*}

Sarcosomataceae Kobayasi
Conoplea Pers. 1797 (H)
Strumella Fr. 1849 (H)

Class *Sordariomycetes* O.E. Erikss. & Winka
Subclass *Diaporthomycetidae* Senan. et al.
Annulatascales D'souza et al.
Annulatasceae S.W. Wong et al.
Annulatascus Ces. & De Not. 1863 (C)
Chaetorostrum Zelski et al. 2011. with taeniolella-like asexual morph (H)^{#*}

Conlariaceae H. Zhang et al.
Conlarium F. Liu & L. Cai 2012 (H)^{#*}

Calosphaeriales M.E. Barr
Calosphaeriaceae Munk
Calosphaeria Tul. & C Tul. 1863 (H)^{#*}
Flabellascus Réblová 2015 (H)^{#*}
Jattaea Berl 1900 (H)^{#*}
Togniniella Réblová et al. 2004 (H)^{#*}

Pleurostomataceae Réblová et al.
Pleurostoma Tul. & C. Tul. 1863 (H)^{#*}

Diaporthales Nannf.
Apiosporopsidaceae Senan. et al.
Apiosporopsis (Traverso) Mariani. 1911 (C)^{#*}

Apoharknessiaceae Senan. et al.
Apoharknessia Crous & S.J. Lee 2004 (C)
Lasmenia Speg. 1886 (C)

Asterosporiaceae Senan. et al.
Asterosporium Kunze 1819 (C)

Auratiopycnidiellaceae Senan. et al.

Auratiopycnidiella Crous & Summerell 2012 (C)

Coryneaceae Corda

Coryneum Nees 1817 (C)**

Hyaloterminalis Rathnayaka et al. 2020 (C)

Talekpea Lunghini & Rambelli 1979 (H)

Cryphonectriaceae Gryzenh. & M.J. Wingf.

Amphilogia Gryzenhout et al. 2005 (C)

Aurantiosacculus Dyko & B. Sutton 1979 (C)

Aurapex Gryzenh. & M.J. Wingf. 2006 (C)

Aurifilum Begoude et al. 2010 (C)

Celoportha Nakab. et al. 2006 (C)

Chrysofolia Crous & M.J. Wingf. 2015 (C)

Chrysomorbus S.F. Chen 2017 (C)

Chrysoportha Gryzenh. & M.J. Wingf. 2004 (C)

Corticomorbus S.F. Chen & M.J. Wingf. 2016 (C)

Cryphonectria (Sacc.) Sacc. & D. Sacc. 1905 (C)**

Cryptometrion Gryzenh. & M.J. Wingf. 2010 (C)

Diversimorbus S.F. Chen & J. Roux 2014 (C)

Endothia Fr. 1849 (C)

Eriocamporesia R.H. Perera et al. 2020 (C)**

Foliocryphia Cheew. & Crous 2009 (C)

Holocryphia Gryzenh. & M.J. Wingf. 2006 (C)

Immersiportha S.F. Chen et al. 2013 (C)

Latruncellus M. Verm. et al. 2011 (C)

Luteocirrhus C.F. Crane & T.I. Burgess 2013 (C)

Mastigosporaella Höhn. 1914 (C)

Microthia Gryzenh. & M.J. Wingf. 2006 (C)**

Myrtonectria Marinc. et al. 2018 (C)

Neocalonectria Crous 2020 (H)

Parvomorbus W. Wang & S.F. Chen 2020 (C)

Rostraureum Gryzenh. & M.J. Wingf. 2005 (C)

Ursicollum Gryzenh. & M.J. Wingf. 2006 (C)

Wuestneia Auersw. ex Fuckel 1864 (C)**

Cytosporaceae Fr.

Cytospora Ehrenb. 1818 (C)

Pachytrype Berl. ex M.E. Barr et al. 1993 (C)

Waydora B. Sutton 1976 (C)

Diaporthaceae Höhn. ex Wehm.

Apiosphaeria Höhn. 1909 (C)**

Chaetoconis Clem. 1909 (C)

Chiangraiomycetes Senan. et al. 2017 (C)**

Diaportha Nitschke 1870 (C)**

Hyaliappendispora Senan. et al. 2017 (C)**

Massariothea Syd. 1939 (C)

Mazzantia Mont. et al. 1855 (C)**

Ophiodiaportha Y.M. Ju et al. 2013 (C)**

Phaeocytostroma Petr. 1921 (C)

Pustulomyces D.Q. Dai et al. 2014 (C)

Stenocarpella Syd. & P. Syd. 1917 (C)

Diaporthosporaceae C.M. Tian & Q. Yang

Diaporthospora C.M. Tian & Q. Yang 2017 (C)^{#*}

Dwiropaceae K.V. Xavier et al.

Dwiroopa Subram. & Muthumary 1986 (C)

Erythrogloeaceae Senan. et al.

Chrysocrypta Crous & Summerell 2012 (C)

Disculoides Crous et al. 2012 (C)

Erythrogloeum Petr. 1953 (C)

Foliocryphiaceae C.M. Tian et al.

Neocryphonectria C.M. Tian et al. 2020 (C)^{#*}

Gnomoniaceae G. Winter

Apiognomonia Höhn. 1917(C)^{#*}

Asteroma DC. et al. 1815 (C)

Cryptospora Sacc. 1877 (C)^{#*}

Gloeosporidina Petr. 1921 (C)

Millerburtonia Cif. 1951 (C)

Sirococcus Preuss 1855 (C)

Uleoporthe Petr. 1941 (C)^{#*}

Valsalnicola D.M. Walker & Rossman 2012 (C)^{#*}

Harknessiaceae Crous

Harknessia Cooke 1881 (C)^{#*}

Mebarria J. Reid & C. Booth 1989 (C)^{#*}

Juglanconidaceae Voglmayr & Jaklitsch

Juglanconis Voglmayr & Jaklitsch 2017 (C)^{#*}

Lamproconiaceae C. Norphanphoun et al.

Hercospora Fr. 1825 (C)^{#*}

Lamproconium (Grove) Grove 1937 (C)

Macrohilaceae Crous

Macrohilum H.J. Swart 1988 (C)

Melanconidaceae G. Winter

Melanconis Tul. & C. Tul. 1863 (C)^{#*}

Melanconiellaceae Senan. et al.

Dicarpella Syd. & P. Syd. 1921 (C)^{#*}

Greeneria Scribn. & Viala 1887 (C)

Massariovalsa Sacc. 1882 (C)^{#*}

Melanconiella Sacc. 1882 (C)^{#*}

Septomelanconiella Samarak. & K.D. Hyde 2019 (C)

Sheathospora X.L. Fan 2018 (C)

Neomelanconiellaceae Crous

Neomelanconiella Crous 2018 (C)

Phaeoappendicosporaceae Crous & M.J. Wingf.

Neophaeoappendicospora Crous & M.J. Wingf. 2019 (C)^{#*}

Prosopidicolaceae Senan. & K.D. Hyde

Prosopidicola Crous & C.L. Lennox 2004 (C)

Pseudomelanconidaceae C.M. Tian & X.L. Fan

Pseudomelanconis C.M. Tian & X.L. Fan 2018 (C)

Neopseudomelanconis C.M. Tian & N. Jiang 2018 (C)

Pseudoplagiostomataceae Cheew. et al.

Pseudoplagiostoma Cheew. et al. 2010 (C)^{#*}

Schizoparmaceae Rossman

Coniella Höhn. 1918 (C)^{#*}

Stilbosporaceae Link

Crinitospora B. Sutton & Alcorn 1985 (C)

Natarajania Pratibha & Bhat 2005 (C)

Stegonsporium Corda 1827 (C)^{#*}

Stilbospora Pers. 1794 (C)^{#*}

Sydowiellaceae Lar.N. Vassiljeva

Hapalocystis Auersw. ex Fuckel 1863 (C)^{#*}

Lambro Racib. 1900 (C)^{#*}

Paragnomonis Senan. & K.D. Hyde 2017 (C)^{#*}

Tenuiappendicula Senan. et al. 2017 (C)^{#*}

Synnemasporrellaceae X.L. Fan & J.D.P. Bezerra

Synnemasporella X.L. Fan 2018 (C or H)^{#*}

Tubakiaceae U. Braun et al.

Involutscutellula U. Braun & C. Nakash. 2018 (C)

Oblongisporothyrium U. Braun & C. Nakash. 2018 (C)

Paratubakia U. Braun & C. Nakash. 2018 (C)

Racheliella Crous & U. Braun 2018 (C)

Saprothyrium U. Braun et al. 2018 (C)

Sphaerosporithyrium U. Braun et al. 2018 (C)

Tubakia B. Sutton 1973 (C)^{#*}

Distoseptisporales Z.L. Luo et al.

Distoseptisporaceae K.D. Hyde & McKenzie

Distoseptispora K.D. Hyde et al. 2016 (H)^{*}

Jobellisiales M.J. D'souza & K.D. Hyde

Magnaporthales Thongk. et al.

Ceratosphaeriaceae Z.L. Luo et al.

Ceratosphaeria Niessl 1876 (H)^{#*}

Magnaporthaceae P.F. Cannon

Bifusisporella R.M.F. Silva et al. 2019 (H)
Budhanggurabania P. Wong et al. 2015 (H)*
Bussabanomyces Klaubauf et al. 2014 (H)
Ceratosphaerella Huhndorf et al. 2008 (H)*
Clasterosporium Schwein 1832 (H)*
Falciphora J. Luo et al. 2015 (H)
Falciphoriella M. Hern.-Restr. & Crous 2016 (H)
Gaeumannomycella M. Hern.-Restr. & Crous 2016 (H)
Gaeumannomyces Arx & D.L. Olivier 1952 (H)*
Kohlmeyeriopsis Klaubauf et al. 2014 (H)*
Magnaporthiopsis J. Luo et al. 2013 (H)*
Mycoleptodiscus Ostaz. 1968 (H)
Omnidemptus P.F. Cannon & Alcorn 1994 (H)*
Pseudophialophora J. Luo & N. Zhang 2014 (H)
Pyriculariopsis M.B. Ellis 1971 (H)
Slopeiomyces Klaubauf et al. 2014 (H)

Pyriculariaceae Klaubauf et al.

Bambusicularia Klaubauf et al. 2014 (H)
Barretomyces Klaubauf et al. 2014 (H)
Deightoniella S. Hughes 1952 (H)
Macgarvieomyces Klaubauf et al. 2014 (H)
Neocordana Hern.-Rest. et al. 2015 (H)
Proxipyricularia Klaubauf et al. 2014 (H)
Pseudopyricularia Klaubauf et al. 2014 (H)
Pyricularia Sacc. 1880 (H)
Pyriculariomyces Y. Marín et al. 2019 (H)
Xenopyricularia Klaubauf et al. 2014 (H)

Myrmecridiales Crous

Myrmecridiaceae Crous

Myrmecridium Arzanlou et al. 2007 (H)*
Neomyrmecridium Crous 2018 (H)

Xenodactylariaceae Crous

Xenodactylaria Crous 2018 (H)

Ophiostomatales Benny & Kimbr.

Kathistaceae Malloch & M. Blackw.

Termitariopsis M. Blackw. et al. 1980 (H)

Ophiostomataceae Nannf.

Afroraffaelea C.C. Bateman et al. 2016 (H)
Aureovirgo J.A. van der Linde et al. 2016 (H)*
Ceratocystiopsis H.P. Upadhyay & W.B. Kendr. 1975 (H)*
Fragosphaeria Shear 1923 (H)*
Graphilbum H.P. Upadhyay & W.B. Kendr. 1975 (H)*
Hawksworthiomyces Z.W. de Beer et al. 2016 (H)
Leptographium Lagerb. et al. 1927 (H)
Ophiostoma Syd. et al. 1919 (H)*
Raffaelea Arx et al. 1965 (H)
Sporothrix Hektoen et al. 1901 (H)*

Spumatoria Massee et al. 1901 (H)^{#*}
Subbaromyces Hesselt. 1953 (H)^{#*}

Pararamichloridiales Crous
Pararamichloridiaceae Crous
Pararamichloridium Crous 2017 (H)

Phomatosporales Senan. et al.
Phomatosporaceae Senan. & K.D. Hyde
Phomatospora Sacc. 1875 (H)^{#*}

Sporidesmiales Crous
Sporidesmiaceae Fr.
Sporidesmium Link 1809 (H)^{#*}

Tirisporellales Suetrong et al.
Tirisporellaceae Suetrong et al.
Thailandiomyces Pinruan et al. 2008 (H)^{#*}
Tirisporella E.B.G. Jones et al. 1996 (H)^{#*}

Togniniales Senan. et al.
Togniniaceae Réblová et al.
Phaeoacremonium W. Gams et al. 1996 (H)^{#*}

Xenospadicoidales Hern.-Restr. et al.
Xenospadicoidaceae Hern.-Restr. et al.
Neospadicoides Z.L. Luo 2019 (H)
Spadicoides S. Hughes 1958 (H)^{#*}

Diaporthomycetidae families *incertae sedis*
Barbatosphaeriaceae H. Zhang et al.
Barbatosphaeria Réblová 2008 (H)^{#*}
Xylomelasma Réblová 2006 (H)^{#*}

Rhamphoriaceae Réblová
Rhamphoria Niessl 1876 (H)^{#*}
Rhodoveronaea Arzanlou et al. 2018 (H)

Thyridiaceae J.Z. Yue & O.E. Erikss.
Thyridium Nitschke 1867 (C)^{#*}

Trichosphaeriaceae G. Winter
Brachysporium Sacc. 1886 (H)^{#*}
Koorchaloma Subram. 1953 (C)^{#*}

Woswasiaceae H. Zhang et al.
Xylochrysis Réblová et al. 2014 (C)^{#*}

Diaporthomycetidae families *incertae sedis*
Sporidesmiella P.M. Kirk 1982 (H)

Subclass *Hypocreomycetidae* O.E. Erikss. & Winka

Coronophorales Nannf.

Ceratostomataceae G. Winter

Dactylidispota Y. Marín et al. 2018 (H)^{#*}

Erythrocarpon Zukal 1886 (H)^{#*}

Harzia Costantin 1888 (H)

Melanospora Corda 1837 (H)^{#*}

Microthecium Corda 1842 (H)^{#*}

Chaetosphaerellaceae Huhndorf et al.

Chaetosphaerella E. Müll. et al. 1972 (H)^{#*}

Crassochaeta Réblová 1999 (H)^{#*}

Falcocladales R.H. Perera et al.

Falcocladiaceae Somrithipol et al.

Falcocladium S.F. Silveira et al. (1994) (H)

Glomerellales Chadeff. ex Réblová et al.

Australiascaceae Réblová & W. Gams

Monilochaetes Halst. ex Harter 1916 (H)^{#*}

Glomerellaceae Locq. ex Seifert & W. Gams

Colletotrichum Corda 1831 (C)^{#*}

Malaysiascaceae Tibpromma & K.D. Hyde

Malaysiasca Crous & M.J. Wingf. 2016 (H)^{#*}

Plectosphaerellaceae W. Gams et al.

Acremoniisimulans Tibpromma et al. 2018 (H)

Acrostalagmus Corda 1838 (H)

Brunneochlamydosporium Giraldo López & Crous 2018 (H)

Brunneomyces A. Giraldo et al. 2017 (H)

Chlamydosporiella Giraldo López & Crous 2019 (H)

Chordomyces Bilanenko et al. 2015 (H)

Furcasterigmium Giraldo López & Crous 2019 (H)

Fuscohypha Giraldo López & Crous 2019 (H)

Gibellulopsis Bat. et al. 1959 (H)

Lectera P.F. Cannon 2012 (C)

Longitudinalis Tibpromma et al. 2017 (H)

Musicillium Zare et al. 2007 (H)

Musidium Giraldo López & Crous 2019 (H)

Nigrocephalum Giraldo López & Crous 2019 (H)

Paragibellulopsis Giraldo López & Crous 2019 (H)

Paramusicillium Giraldo López & Crous 2019 (H)

Phialoparvum Giraldo López & Crous 2019 (H)

Plectosphaerella Kleb. 1929 (H)

Sayamraella Giraldo López & Crous 2019 (H)

Sodiomyces A.A. Grum-Grzhim. et al. 2019 (H)^{#*}

Stachylidium Link 1809 (H)

Summerbellia Giraldo López & Crous 2019 (H)

Theobromium Giraldo López & Crous 2019 (H)

Verticillium Nees 1816 (H)

Reticulascaceae Réblová

- Blastophorum* Matsush 1971 (H)
Cylindrotrichum Bonord. 1851 (H)*
Kylindria DiCosmo et al. 1983 (H)
Sporoschismopsis Hol-Jech. et al. 1972 (H)*

Glomerellales genus *incertae sedis*

- Ascocodinaea* Samuels et al. (H)*

Hypocreales Lindau

Bionectriaceae Samuels & Rossman

- Acremonium* Link 1809 (H)
Bryocentria Döbbeler 2004 (H)
Bullanockia Crous 2016 (H)
Clonostachys Corda 1839 (H)*
Dimerosporiella Speg. 1908 (H)
Fusariella Sacc. 1884 (H)
Geosmithia Pitt 1979 (H)
Gliomastix Guég. 1905 (H)
Heleococcum P.M. Jørg. 1922 (H)*
Ijuhya Starbäck 1899 (H)*
Lasionectria (Sacc.) Cooke 1884 (H)
Lasionectriella Lechat & J. Fourn. 2016 (H)*
Mycoarachis Malloch et al. 1970 (H)
Mycocitrus Möller 1901 (H)
Nectriella Nitschke et al. 1870 (H)
Nectriopsis Maire 1911 (H)
Nigrosabulum Malloch et al. 1970 (H)
Paracylindrocarpon Crous et al. 2016 (H)
Periantria Döbbeler & P.G. Davison 2018 (H)*
Pronectria Clem. 1931 (H)
Protocreopsis Yoshim Doi 1977 (H)*
Rhopalocladium Schroers et al. 1999 (H)
Roumegueriella Speg. 1980 (H)*
Selinia P. Karst. 1876 (H)
Stilbocrea Pat. 1900 (H)
Stromatonectria Jaklitsch & Voglmayr 2011 (C)
Synnemellisia N.K. Rao et al. 1989 (H)
Verrucostoma Hirooka et al. 2010 (H)
Xanthonectria J. Fourn. & P.-A. Moreau 2016 (H)*

Calcarisporiaceae Jing Z. Sun et al.

- Calcarisporium* Preuss 1851 (H)

Clavicipitaceae (Lindau) Earle ex Rogerson

- Aschersonia* Mont. 1848 (C)*
Atkinsonella Diehl 1950 (C)*
Balansia Speg. 1885 (C)*
Claviceps Tul. 1853 (C)*
Collarina Giraldo et al. 2014 (H)
Corallocytostroma Y.N. Yu et al. 1980 (C)
Epichloë (Fr.) Tul. et al. (1865) (H)

Helicocollum Luangsa-ard 2017 (H)
Heteroepichloë E. Tanaka et al. 2002 (C)^{#*}
Loculistroma F. Patt et al. 1910 (C)^{#*}
Metapochonia Kepler et al. 2014 (C)
Metarhiziosis D.W. Li et al. 2008 (C)
Metarhizium Sorokin 1879 (C)^{#*}
Moelleriella Bres. 1987 (C)^{#*}
Mycophilomyces Crous et al. 2016 (C)
Myriogenospora G.F. Atk. 1894 (C)^{#*}
Neobarya Lowen 1996 (C)^{#*}
Neocordyceps Kobayasi 1984 (C)^{#*}
Nigelia Luangsa-ard et al. 2017 (C)^{#*}
Nigrocornus Ryley et al. 2003 (C)^{#*}
Pochonia Bat. et al. 1965 (C)^{#*}
Pseudomeria G.L. Barron 1980 (H)
Regiocrella Chaverri et al. 2005 (C)^{#*}
Rotiferophthora G.L. Barron 1991 (H)
Samuelsia Chaverri & K.T. Hodge 2008 (C)^{#*}
Tyrannicordyceps Kepler et al. 2012 (C)^{#*}
Ustilaginoidea Bref. 1895 (H)

Cordycipitaceae Kreisel ex G.M. Sung et al.

Akanthomyces Lebert 1858 (H)^{#*}
Amphichorda Fr. 1825 (H)
Beauveria Vuill. 1912 (H)^{#*}
Beejasamuha Subram. et al. 1977 (H)
Blackwellomyces Spatafora & Luangsa-ard 2017 (H)^{#*}
Cordyceps (Fr.) Link 1818 (H)^{#*}
Coremiopsis Sizova et al. 1957 (H)
Engyodontium de Hoog 1978 (H)
Gibellula Cavara 1894 (H)^{#*}
Hevansia Luangsa-ard et al. 2017 (H)
Hyperdermium J. White et al. 2000 (H)^{#*}
Leptobacillium Zare & W. Gams 2016 (H)
Parengyodontium C.C. Tsang 2016 (H)
Samsoniella Mongkols. et al. 2018 (H)^{#*}
Simplicillium W. Gams et al. 2001 (H)

Flammocladidiellaceae Crous et al.

Flammocladella Crous et al. 2015 (C)^{#*}

Hypocreaceae De Not.

Arachnocrea Z. Moravec. 1956 (H)^{#*}
Escovopsioides H.C. Evans et al. 2012 (H)
Escovopsis J.J. Muchovej et al. 1990 (H)
Hypomyces (Fr.) Tul. et al. 1860 (H)^{#*}
Kiflimonium Summerb. et al. 2018 (H)
Mycogone Link 1809 (H)
Protocrea Petch 1937 (H)^{#*}
Sepedonium Link 1809 (H)
Sphaerostilbella (Henn.) Sacc. et al. 1905 (H)^{#*}
Sporophagomyces K. Pöldmaa et al. 1999 (H)^{#*}

Stephanoma Wallr. 1833 (H)
Trichoderma Pers. 1794 (H)*
Verticimonosporium Matsush. 1971 (H)

***Myrotheciomycetaceae* Crous**

Emericellopsis J.F.H. Beym 1940 (H)*
Leucosphaerina Arx 1987 (H)*
Myrotheciomyces Crous 2018 (H)
Trichothecium Link 1809 (H)

***Nectriaceae* Tul. & C. Tul.**

Aquanectria L. Lombard & Crous 2015 (H)*
Atractium Link 1809 (H)
Bisifusarium L. Lombard et al. 2015 (H)
Calonectria De Not. 1867 (H)*
Calostilbe Sacc. & Syd. 1902 (H)*
Campylocarpon Halleen et al. 2005 (H)
Chaetopsina Rambelli 1956 (H)
Coccinonectria L. Lombard & Crous 2015 (H)*
Corinectria C. González & P. Chaverri 2017 (H)*
Corallomycetella Henn. 1904 (H)*
Corallonectria C. Herrera & P. Chaverri 2013 (H)*
Curviciadiella Decock & Crous 2006 (H)
Cyanochyta Höhn. 1915 (C)
Cyanophomella Höhn. 1918 (C)
Cylindrocarpostylus R. Kirschner & Oberw. 1999 (H)
Cylindrocladiella Boesew. 1982 (H)*
Cylindrodendrum Bonord. 1851 (H)
Dacryoma Samuels 1988 (H)
Dactylonectria L. Lombard & Crous 2014 (H)*
Dematiocladium Allegr. et al. 2005 (H)
Fusarium Link 1809 (H)*
Fusicolla Bonord. 1851 (H)*
Gliocephalotrichum J.J. Ellis & Hesselt. 1962 (H)*
Gliocladiopsis S.B. Saksena 1954 (H)
Ilyonectria P. Chaverri & C. Salgado 2011 (H)*
Macroconia (Wollenw.) Gräfenhan et al. 2011 (H)
Mariannaea G. Arnaud ex Samson 1974 (H)
Microcera Desm. 1848 (H)
Murinectria M. Niranjana & V.V. Sarma 2020 (H)*
Nalanthamala Subram. 1956 (H)*
Nectria (Fr.) Fr. 1849 (H)*
Neonectria Wollenw. 1917 (H)*
Paracremonium L. Lombard & Crous 2015 (H)*
Penicillifer Emden 1968 (H)
Pleiocarpon L. Lombard & D. Aiello 2017 (H)
Pseudocosmospora C. Herrera & P. Chaverri 2013 (H)*
Pseudoachroiostachys Tibpromma & K.D. Hyde 2018 (H)
Rectifusarium L. Lombard et al. 2015 (H)*
Rugonectria P. Chaverri & Samuels 2011 (H)*
Sarcopodium Ehrenb. 1818 (H)
Thyronectria Sacc. 1875 (C)*

Varicosporella Lechat & J. Fourn. 2015 (H)^{#*}
Volutella Fr. 1832 (H)^{#*}
Xenoacremonium L. Lombard & Crous 2015 (H)
Xenocylindrocladium Decock et al. 1997 (H)^{#*}
Xenoleptographium Marinc. et al. 2015 (H)

Niessliaceae Kirschst.

Eucasphaeria Crous 2007 (C)^{#*}
Myrtacremonium Crous 2017 (H)
Niesslia Auersw. 1869 (H)^{#*}
Trichosphaerella E. Bommer et al. 1891 with acremonium-like asexual morph (H)^{#*}
Valetoniellopsis Samuels & M.E. Barr 1998 with acremonium-like asexual morph (H)^{#*}

Ophiocordycipitaceae G.H. Sung et al.

Drechmeria W. Gams & H.B. Jansson (H)
Hantamomyces Crous 2020 (H)
Harposporium Lohde 1874 (H)^{#*}
Ophiocordyceps Petch 1931 (H)^{#*}
Paraisaria Samson & B.L. Brady 1983 (H)^{#*}
Polycephalomyces Kobayasi 1941 (H)^{#*}
Purpureocillium Luangsa-ard et al. 2011 (H)
Tolypocladium W. Gams 1971 (H)^{#*}

Sarocladiaceae L. Lombard

Parasarocladium Summerb. et al. Crous 2018 (H)

Stachybotryaceae L. Lombard & Crous

Achroiostachys L. Lombard & Crous 2016 (H)
Albifimbria L. Lombard & Crous 2016 (H)
Albosynnema E.F. Morris 1967 (H)
Alfaria Crous et al. 2014 (C)^{#*}
Alfariacadiella Crous & R.K. Schumach. 2016 (H)
Brevistachys L. Lombard & Crous 2016 (H)
Capitofimbria L. Lombard & Crous 2016 (H)
Cymostachys L. Lombard & Crous 2016 (H)
Didymostilbe Henn. 1902 (H)
Digitiseta Gordillo & Decock 2017 (H)
Dimorphiseta L. Lombard & Crous 2016 (H)
Globobotrys L. Lombard & Crous 2016 (H)
Grandibotrys L. Lombard & Crous 2016 (H)
Gregatothecium L. Lombard & Crous 2016 (H)
Inaequalispora L. Lombard & Crous 2016 (H)
Hyalinostachys C.G. Lin & K.D. Hyde 2020 (H)
Kastanostachys L. Lombard & Crous 2016 (H)^{#*}
Koorchalomella Chona et al. 1958 (H)
Melanopsamma Niessl 1876 (H)^{#*}
Memnoniella Höhn. 1923 (H)
Myrothecium Tode 1790 (H)
Myxospora L. Lombard & Crous 2016 (H)
Neomyrothecium L. Lombard & Crous 2016 (H)
Paramyrothecium L. Lombard & Crous 2016 (H)
Parasarcopodium Mel'nik et al. 2004 (H)

Parvothecium L. Lombard & Crous 2016 (H)
Pseudoornatispora Tibpromma & K.D. Hyde 2018 (H)^{**}
Septomyrothecium Matsush. 1971 (H)
Sirastachys L. Lombard & Crous 2016 (H)
Smaragdiniseta L. Lombard & Crous 2016 (H)
Stachybotrys Corda 1837 (H)^{**}
Striatibotrys L. Lombard & Crous 2016 (H)^{**}
Striaticonidium L. Lombard & Crous 2016 (H)
Tangerinosporium L. Lombard & Crous 2016 (H)
Virgatospora Finley 1967 (H)
Xenomyrothecium L. Lombard & Crous 2016 (H)
Xepicula Nag Raj 1993 (C)
Xepiculopsis Nag Raj 1993 (C)

Tilachlidiaceae Lombard & Crous

Septofusidium W. Gams 1971 (H)
Tilachlidium Preuss 1851 (H)

Hypocreales genera incertae sedis

Acremoniopsis Giraldo et al. 2014 (H)
Cylindrium Bonord. 1851 (H)
Geosmithia J.Pitt 1979 (H)
Hapsidospora Malloch & Cain 1970 (C)
Haptospora G.L. Barron 1991 (H)
Harzia Costantin 1888 (H)
Hymenopsis Sacc. 1886 (C)
Illosporiopsis D. Hawksw. 2001 (H)
Illosporium Mart. 1817 (H)
Lichenopenicillus Etayo 2017 (H)
Munkia Speg. 1886 (H)
Neomunkia Petr. 1947 (H)
Neothyronectria Crous & Thangavel 2016 (C)
Sarocladium W. Gams & D. Hawksw. 1976 (H)
Saksenamyces A.N. Rai & P.N. Singh 2018 (H)
Stanjemonium W. Gams et al. 1999 (H)
Stilbella Lindau 1900 (H)
Trichothecium Link 1809 (H)

Microascales Luttr. ex Benny & Kimbr.

Ceratocystidaceae Locq. ex Réblová et al.

Ambrosiella Brader ex Arx & Hennebert 1965 (H)
Berkeleyomyces W.J. Nel et al. 2017 (H)
Bretziella Z.W. de Beer et al. 2017 (H)^{**}
Ceratocystis Ellis & Halst. 1890 (H)^{**}
Chalaropsis Peyronel 1916 (H)
Davidsoniella Z.W. de Beer et al. 2014 (H)^{**}
Huntiella Z.W. de Beer et al. 2014 (H)^{**}
Thielaviopsis Went 1893 (H)

Chadefaudiellaceae Faurel & Schotter ex Benny & Kimbr.

Faurelina Locq.-Lin. 1975 with arthrographis-like asexual morph (H)^{**}

Gondwanamycetaceae Réblová et al.
Custingophora Stolk et al. 1968 (H)

Graphiaceae De Beer
Graphium Corda 1837 (H)

Halosphaeriaceae E. Müll. & Arx ex Kohlm.
Cirrenalia Meyers & R.T. Moore 1960 (H)
Clavatospora Sv. Nilsson ex Marvanová & Sv. Nilsson 1971 (H)
Corollospora Werderm. 1922 (H)^{#*}
Sigmoidea J.L. Crane 1968 (H)

Microascaceae Luttr. ex Malloch
Acaulium Sopp 1912 (H)
Brachyconidiellopsis Decock et al. 2004 (H)
Cephalotrichum Link 1809 (H)
Echinobotryum Corda 1831 (H)
Gamsia M. Morelet 1969 (H)
Parascenedosporium Gilgado et al. 2007 (H)
Pseudoscopulariopsis M. Sandoval-Denis et al. 2015 (H)^{#*}
Rhinocladium Sacc. & Marchal 1885 (H)
Scenedosporium Sacc. ex Castell. & Chalm. 1919 (H)
Wardomyces F.T. Brooks & Hansf. 1923 (H)
Wardomycopsis Udagawa & Furuya 1978 (H)
Yunnanina H.Z. Kong 1998 (H)^{#*}

Triadelphiaceae Y.Z. Lu et al.
Synnematotriadelphia Chuaseehar et al. 2020 (H)
Triadelphia Shearer & J.L. Crane 1971 (H)

Microascales genera *incertae sedis*
Cephalotrichiella Crous 2014 (H)
Cornuvesica C.D. Viljoen et al. 2000 with chalara-like asexual morph (H)^{#*}
Sphaeronaemella P. Karst. 1884 (H)^{#*}
Sporendocladia G. Arnaud ex Nag Raj & W.B. Kendr. 1975 (H)

Pararamichloridiales Crous
Pararamichloridiaceae Crous
Pararamichloridium Crous 2017 (H)

Torpedosporales E.B.G. Jones et al.
Juncigenaceae E.B.G. Jones et al.
Juncigena Kohlm. et al. 1997 (H)

Torpedosporaceae E.B.G. Jones & K.L. Pang
Torpedospora Meyers 1957 (H)^{#*}

Hypocreomycetidae genera *incertae sedis*
Campylospora Ranzoni 1953 (H)
Dendroclathra Voglmayr & G. Delgado 2001 (H)

Subclass *Lulworthiomycetidae* Dayar. et al.

Lulworthiales Kohlm.

Lulworthiaceae Kohlm.

Cumulospora I. Schmidt 1985 (H)

Halazon Abdel-Aziz et al. 2010 (C)

Hydea K.L. Pang & E.B.G. Jones 2010 (H)

Matsusporium E.B.G. Jones & K.L. Pang 2010 (H)

Moleospora Abdel-Wahab et al. 2010 (H)

Moromyces Abdel-Wahab et al. 2010 (H)

Subclass Savoryellomycetidae Hongsan et al.

Conioscyphales Réblová & Seifert

Conioscyphaceae Réblová & Seifert

Conioscypha Höhn. 1904 (H)^{#*}

Fuscosporellales J. Yang et al.

Fuscosporellaceae J. Yang et al.

Fuscosporella J. Yang et al. 2016 (H)

Mucispora J. Yang et al. 2016 (H)

Parafuscosporella J. Yang & K.D. Hyde 2016 (H)

Pseudoascotaiwania J. Yang et al. 2016 (H)

Pleurotheciales Réblová & Seifert

Pleurotheciaceae Réblová & Seifert

Anapleurothecium Hern.-Restr. et al. 2017 (H)

Melanotrigonum Réblová 2015 (H)^{#*}

Neomonodictys Y.Z. Lu et al. 2020 (H)

Phaeoisaria Höhn. 1909 (H)

Pleurotheciella Réblová et al. 2012 (H)^{#*}

Pleurothecium Höhn. 1919 (H)^{#*}

Sterigmatobotrys Oudem. 1886 (H)

Savoryellales Boonyuen et al.

Savoryellaceae Jaklitsch & Réblová

Ascotaiwania Sivan. & H.S. Chang 1992 (H)^{#*}

Canalisporium Nawawi & Kuthub. 1989 (H)^{#*}

Kaseifertia Réblová et al. 2020 (C)

Monotosporella S. Hughes 1958 (H)

Subclass Sordariomycetidae O.E. Erikss. & Winka

Cephalothecales Maharachch. & K.D. Hyde

Cephalothecaceae Höhn.

Victoriomyces D. Davolos et al. 2019 (C)

Chaetosphaeriales Huhndorf et al.

Chaetosphaeriaceae Réblová et al.

Adautomilanezia Gusmão et al. 2016 (H)

Anacacumisporium Y.R. Ma & X.G. Zhang 2016 (H)

Brunneodinemasporium Crous & R.F. Castañeda 2012 (C)

Catenularia Grove 1886 (H)

Chaetosphaeria Tul. & C. Tul. 1863 with phialophora-like asexual morph (H)^{#*}

Chaetosphaerides Matsush. 2003 ramichloridium-like asexual morph (H)^{#*}

Chloridium Link 1809 (H)^{#*}

Codinaea Maire 1937 (H)
Conicomycetes R.C. Sinclair et al. 1983 (H)
Craspedodidymum Hol.-Jech. 1972 (H)
Cryptophiale Piroz. 1968 (H)
Dendrophoma Sacc. 1880 (C)
Dictyochaeta Speg. 1923 (H)
Dinemasporium Lév. 1846 (C)
Eucalyptostroma Crous & M.J. Wingf. 2016 (C)
Exserticlava S. Hughes 1978 (H)
Gonytrichum Nees & T. Nees 1818 (H)
Hemicorynespora M.B. Ellis 1972 (H)
Infundibulomyces Plaingam et al. 2003 (C)
Kionochaeta P.M. Kirk & B. Sutton 1986 (H)
Menispora Pers. 1822 (H)^{#*}
Menisporopsis S. Hughes 1952 (H)^{#*}
Neopseudolachnella A. Hashim. & Kaz. Tanaka 2015 (C)
Paragaemannomyces Matsush. 2003 (H)^{#*}
Pseudobotrytis Krzemien. & Badura 1954 (H)
Pseudodinemasporium A. Hashim. & Kaz. Tanaka 2015 (C)
Pseudolachnea Ranoj. 1910 (C)
Pseudolachnella Teng 1936 (C)
Pyrigemmula D. Magyar & R. Shoemaker 2011 (H)
Rattania Prabhugaonkar & Bhat 2009 (H)
Sporoschisma Berk. & Broome 1847 (H)^{#*}
Striatosphaeria Samuels & E. Müll. 1979 (H)^{#*}
Tainosphaeria F.A. Fernández & Huhndorf 2005 (H)
Thozetella Kuntze 1891 (H)
Verhulstia Hern.-Rest. 2017 (H)
Zanclospora S. Hughes & W.B. Kendr. 1965 (H)

Helminthosphaeriaceae Samuels et al.

Diplococcium Grove 1885 (H)
Endophragmiella B. Sutton 1973 (H)
Ruzenia O. Hilber 2002 with selenosporella-like asexual morph (H)^{#*}

Linocarpaceae Konta & K.D. Hyde

Linocarpon Syd. & P. Syd. 1917 with phialophora-like asexual morph (H)^{#*}

Chaetosphaeriales genera *incertae sedis*

Calvolachnella Marinc. et al. 2016 (C)
Nawawia Marvanová 1980 (H)
Neonawawia Jing Yang et al. 2018 (H)

Coniochaetales Huhndorf et al. (= *Cordanales* M. Hern.-Rest. & Crous)

Coniochaetaceae Malloch & Cain

Coniochaeta (Sacc.) Cooke 1887 (H)^{#*}
Barrina A.W. Ramaley 1997 with phialophora-like asexual morph (H)^{#*}
Cordana Preuss 1851 (H)^{#*}
Rhexodenticula W.A. Baker & Morgan-Jones 2001 (H)

Meliolales Gäum. ex D. Hawksw. & O.E. Erikss.

Meliolaceae G.W. Martin ex Hansf.

Asteridiella McAlpine 1897 (H)^{#*}
Cryptomeliola S. Hughes & Piroz. 1997 (H)
Endomeliola S. Hughes & Piroz. 1994 (H)^{#*}
Irenopsis F. Stevens 1927 (H)^{#*}
Meliola Fr. 1825 (H)^{#*}

Phyllachorales M.E. Barr

Phyllachoraceae Theiss. & H. Syd.

Cyclodomus Höhn. 1909 (C)
Diachora Müll. 1893 (C)^{#*}
Linochora Höhn. 1910 (C)
Mycohypallage B. Sutton 1963 (C)
Neophyllachora Dayar. & K.D. Hyde 2017 (C)^{#*}
Pseudothiella Petr. 1928 (C)^{#*}
Rhodosticta Woron. 1911 (C)

Pseudodactylariales Crous

Pseudodactylariaceae Crous

Pseudodactylaria Crous 2017 (H)

Sordariales Chad. ex D. Hawksw. & O.E. Erikss.

Chaetomiaceae G. Winter

Allobostryotrichum M. Raza & L. Cai 2019 (H)
Arxotrichum A. Nováková & M. Kolařík 2018 (H)^{#*}
Chaetomidium (Zopf) Sacc. 1882 with phialophora-like asexual morph (H)^{#*}
Chaetomium Kunze 1817 with papulaspora-like asexual morph (H)^{#*}
Crassicarpon Y. Marín et al. 2015 (H)^{#*}
Madurella Brumpt 1905 (H)
Myceliophthora Costantin 1892 (H)
Staphylotrichum J. Mey. & Nicot 1957 (H)
Thermothelomyces Y. Marín et al. 2015 (H)^{#*}
Thermothielavioides X. Wei Wang & Houbraken 2019 (H)

Lasiosphaeriaceae Nannf.

Cercophora Fuckel 1870 (H)^{#*}
Eosphaeria Höhn. 1917 with phialophora-like asexual morph (H)^{#*}
Lasiosphaeria Ces. & De Not. 1863 with phialophora-like asexual morph (H)^{#*}
Mammaria Ces. ex Rabenh. 1854 (H)

Naviculisporaceae Y. Marin & Stchigel

Areotheca Y. Marin & Stchigel 2020 (C)^{#*}
Naviculispora Stchigel et al. 2020 (C)

Podosporaceae X. Wei Wang & Houbraken

Cladorrhinum Sacc. & Marchal 1885 (H)
Podospora Ces. 1856 with phialophora-like asexual morph (H)^{#*}

Schizotheciaceae Y. Marin & Stchigel

Jugulospora N. Lundq. 1972 (H)^{#*}
Lundqvistomyces Y. Marin & Stchigel 2020 (H)^{#*}
Pseudoschizothecium Y. Marín et al. 2020 (H)^{#*}
Schizothecium Corda 1838 (H)^{#*}

Sordariaceae G. Winter

Neurospora Shear & B.O. Dodge 1927 (H)

Sordariales genera *incertae sedis*

Ascolacicola Ranghoo & K.D. Hyde 1998 with trichocladium-like asexual morph (H)^{#*}

Cancellidium Tubaki 1975 (H)

Lasiosphaeris Clem. 1909 (H)^{#*}

Lunulospora Ingold 1942 (H)

Ramophialophora M. Calduch et al. 2004 (H)

Remersonia Samson & Seifert 1997 (H)

Ypsilonia Lév. 1846 (H)

Sordariomycetidae family *incertae sedis*

Cephalothecaceae Höhn.

Albertiniella Kirschst. 1936 with acremonium-like asexual morph (H)^{#*}

Phialemonium W. Gams & McGinnis 1983 (H)

Sordariomycetidae genera *incertae sedis*

Acrodictys M.B. Ellis 1961 (H)

Cryptophyllachora L. Kiss et al. 2018 (H)

Myxocephala G. Weber et al. 1989 (H)

Subclass Xylariomycetidae sensu O.E. Erikss. & Winka

Amphisphaeriales D. Hawksw. & O.E. Erikss.*

Amphisphaeriaceae G. Winter

Amphisphaeria Ces. & De Not. 1863 (C)^{#*}

Labridella Brenckle 1929 (C)^{#*}

Apiosporaceae K.D. Hyde et al.

Arthrimum Kunze 1817 (C)^{#*}

Endocalyx Berk. & Broome 1876 (H)

Clypeophysalosporaceae Giraldo & Crous

Bagadiella Cheew. & Crous 2009 (H)

Neophysalospora Crous & M.J. Wingf. 2014 (C)^{#*}

Plectosphaera Theiss. 1917 (H)

Hyponectriaceae Petr.

Discosphaerina Höhn 1917 (C or H)^{#*}

Phlogicylindriaceae Senan. & K.D. Hyde

Phlogicylindrium Crous et al. 2006 (H)

Idriellomyces Crous 2018 (H)

Pseudotruncatellaceae Crous

Pseudotruncatella R.H. Perera et al. 2018 (C)

Sporocadaceae Corda

Annellolacinia B. Sutton 1964 (C)

Allelochaeta Petr. 1955 (C)

Bartalinia Tassi 1900 (C)

Broomella Sacc 1883 (C)

Ciliochorella Syd. 1935 (C)

Dilophospora Desm. 1840 (C)
Discosia Lib. 1837 (C)^{#*}
Distononappendiculata F. Liu et al. 2018 (C)
Diversimediispora F. Liu et al. 2018 (C)
Doliomyces Steyaert 1961 (C)
Dyrithiopsis L. Cai et al. 2003 (C)
Heterotruncatella F. Liu et al. 2018 (C)
Hyalotiella Papendorf 1967 (C)
Immersidiscosia Kaz. Tanaka et al. 2010 (C)
Monochaetia (Sacc.) Allesch. 1902 (C)
Morinia Berl. & Bres. 1889 (C)
Neopestalotiopsis Maharachch. et al. 2014 (C)
Neotruncatella Hyang B. Lee & T.T.T. Nguyen 2016 (C)
Nonappendiculata F. Liu et al. 2018 (C)
Nothoseiridium Crous 2020 (C)
Parabartalinia F. Liu et al. 2018 (C)
Pestalotiopsis Steyaert 1949 (C)
Pseudopestalotiopsis Maharachch. et al. 2014 (C)
Pseudosarcostroma F. Liu et al. 2018 (C)
Robillarda Sacc. 1880 (C)
Sarcostroma Cooke 1871 (C)
Seimatosporium Corda 1833 (C)^{#*}
Seiridium Nees 1816 (C)
Truncatella Steyaert 1949 (C)
Xenoseimatosporium F. Liu et al. 2018 (C)
Zetiaspizna Nag Raj 1993 (C)

Delonicicolales R.H. Perera et al.

Delonicicolaceae R.H. Perera et al.

Delonicicola R.H. Perera et al. 2017 (C)

Xylariales Nannf.

Anungitiomycetaceae Crous

Anungitiomyces Crous 2019 (H)

Beltraniaceae Nann.

Beltrania Penz. 1882 (H)

Beltraniella Subram. 1952 (H)

Hemibeltrania Piroz. 1963 (H)

Parapleurotheciopsis P.M. Kirk 1982 (H)

Porobeltraniella Gusmão 2004 (H)

Pseudobeltrania Henn. 1902 (H)

Subramaniomyces Varghese & V.G. Rao 1980 (H)

Subsessila C.G. Lin & K.D. Hyde 2017 (H)

Castanediellaceae Hern.-Restr. et al.

Castanediella Hern.-Restr. et al. 2015 (H)

Diatrypaceae Nitschke

Cryptovalsa Ces. & De Not. ex Fuckel 1870 (C)^{#*}

Diatrype Fr. 1849 (C)^{#*}

Halocryptosphaeria Dayar. et al. 2020 (C)^{#*}

Halodiatrype Dayar. & K.D. Hyde 2016 (C)^{#*}

Neoeutypella M. Raza et al. 2019 (H)^{#*}

Graphostromataceae M.E. Barr et al.

Biscogniauxia Kuntze 1891 (H)^{#*}

Camillea Fr. 1849 (H)^{#*}

Graphostroma Piroz. 1974 with nodulisporium-like asexual morph (H)^{#*}

Obolarina Pouzar 1986 with rhinocladiella-like asexual morph (H)^{#*}

Hypoxylaceae DC

Natonodosa Heredia et al. 2020 (H)

Lopadostomataceae Daranag. & K.D. Hyde

Creosphaeria Theiss. 1910 (C or H)^{#*}

Lopadostoma (Nitschke) Traverso 1906 with libertella-like asexual morph (C)^{#*}

Microdochiaceae Hern.-Restr. et al.

Idriella P.E. Nelson & S. Wilh. 1956 (H)

Microdochium Syd. 1924 (H)^{#*}

Selenodriella R.F. Castañeda & W.B. Kendr. 1990 (H)

Nothodactylariaceae Crous

Nothodactylaria Crous 2019 (H)

Polystigmataceae Höhn. ex Nannf.

Polystigma DC. 1815 (C)

Xyladictyochaetaceae Crous & Hern.-Restr

Xyladictyochaeta Hern.-Restr. et al. 2017 (H)

Xylariaceae Tul. & C. Tul.

Abieticola Hyang B. Lee 2017 (H)

Annulohypoxylon Y.M. Ju et al. 2005 (H)^{#*}

Ascotricha Berk. 1838 (H)^{#*}

Brunneiperidium Daranag. et al. 2015 (H)^{#*}

Catenuliconidia N.G. Liu & K.D. Hyde 2020 (H)

Collodiscula I. Hino & Katum. 1955 (H)^{#*}

Coniolaria D. García et al. with rhinocladiella-like asexual morph (H)^{#*}

Cryptostroma P.H. Greg. & S. Waller 1952 (H)

Daldinia Ces. & De Not. 1863 (H)^{#*}

Diabolocoidia Crous 2020 (H)

Emarcea Duong et al. 2004 (H)^{#*}

Entalbotroma J.D. Rogers & P.R. Johnst. 2017 (C)^{#*}

Halorosellinia Whalley et al. 2000 with geniculosporium-like asexual morph (H)^{#*}

Hypocreodendron Henn. 1897 (H)

Hypoxylon Bull. 1791 (H)^{#*}

Jumillera J.D. Rogers et al. 1997 with geniculosporium-like and libertella-like asexual morph (C) or (H)^{#*}

Kretzschmaria Fr. 1849 with geniculosporium-like asexual morph (H)^{#*}

Kretzschmariella Viégas 1944 with mirandina-like asexual morph (H)^{#*}

Libertella Desm. 1830 (C)

Lunatiannulus Daranag. et al. 2015 (C)^{#*}

Nemania Gray 1821 (H)^{#*}
Poronia Willd. 1787 (H)^{#*}
Rhopalostroma D. Hawksw. 1977 with nodulosporium-like asexual morph (H)^{#*}
Rosellinia De Not. 1844 (H)^{#*}
Rostrophoxylon J. Fourn. & M. Stadler 2010 with sporothrix-like asexual morph (H)^{#*}
Ruwenzoria J. Fourn. et al. 2010 with nodulosporium-like or sporothrix-like asexual morph (H)^{#*}
Surculiseria Okane et al. 2001 (H)
Vamsapriya Gawas & Bhat 2006 (H)
Virgaria Nees 1816 (H)^{#*}
Xylaria Hill ex Schrank 1789 (H)^{#*}

***Xylariales* genera incertae sedis**

Anungitea B. Sutton 1973 (H)
Ascotrichella Valldos. & Guarro 1988 with humicola-like asexual morph (H)^{#*}
Barrmaelia Rappaz 1995 with libertella-like asexual morph (C)^{#*}
Beltraniopsis Bat. & J.L. Bezerra 1960 (H)
Guayaquilina R.F. Castañeda et al. 2020 (H)
Hadrotrichum Fuckel 1865 (H)
Idriellopsis Hern.-Restr. & Crous 2015 (C)
Kirstenboschia Quaedvl. et al. 2013 (C)
Linteromyces Crous 2020 (H)
Paraidriella Hern.-Restr. & Crous 2015 (H)
Paraphysalospora Crous 2017 (H)
Polyancora Voglmayr & C. Yule 2006 (H)
Polyscytalum Riess 1853 (H)
Pseudophloeospora Crous & R.G. Shivas 2010 (C)
Pseudosubramaniomyces Crous 2017 (H)
Roselymyces Fiuza et al. 2018 (H)
Sporidesmina Subram. & Bhat 1989 (H)
Synnemadiella Crous & M.J. Wingf. 2016 (H)
Synnemapestaloides T. Handa & Y. Harada 2004 (H)
Tristratiperidium Daranag. et al. 2016 (H)^{#*}
Xyladictyochaeta Hern.-Restr. et al. 2017 (H)

***Xylariomycetidae* families incertae sedis**

***Cainiaceae* J.C. Krug**

Cainia Arx & E. Müll. 1955 (C)^{#*}
Vesiculozygosporium Crous 2020 (H)

***Xylariomycetidae* genus incertae sedis**

Pseudosporidesmium K.D. Hyde & McKenzie 2016 (H)

***Sordariomycetes* orders incertae sedis**

***Amplistromatales* D'souza et al.**

***Amplistromataceae* Huhndorf et al.**

Acidothrix Hujšlová & M. Kolařík 2014 (H)
Amplistroma Huhndorf et al. 2009 with acrodontium-like asexual morph (H)^{#*}
Wallrothiella Sacc. 1882 (H)^{#*}

***Parasymphodiellales* Hern.-Restr. et al.**

***Parasymphodiellaceae* Hern.-Restr. et al.**

Parasymphodiella Ponnappa 1975 (H)

Tracyllalales Crous

Tracyllaceae Crous

Tracylla (Sacc.) Tassi. 1904 (C)

Vermiculariopsiellales Hern.-Restr. et al.

Vermiculariopsiellaceae Hern.-Restr. et al.

Vermiculariopsiella Bender 1932 (H)

Xenospadicoidales Hern.-Restr. et al.

Xenospadicoidaceae Hern.-Restr. et al.

Pseudodiplococcium Hern.-Restr. et al. 2017 (H)

Xenospadicoides Hern.-Restr. et al. 2017 (H)

Sordariomycetes families *incertae sedis*

Junewangiaceae J.W. Xia & X.G. Zhang

Jennwenomyces Goh & C.H. Kuo 2020 (H)

Sordariomycetes genera *incertae sedis*

Botryosporium Corda 1831 (H)

Calcarisporium Preuss 1851 (H)

Cryptomycella Höhn. 1925 (C)

Didymobotryum Sacc. 1886 (H)

Ellisembia Subram. 1992 (H)

Fantasmomyces Dong Hyeon Lee et al. 2016 (H)*

Hyalotiopsis Punith. 1970 (C)*

Liberomyces Pažoutová et al. 2012 (C)

Melanographium Sacc. 1913 (H)

Teracosphaeria Réblová & Seifert 2007 with phialophora-like asexual morph (H)*

Muscodor Worapong et al. 2001 (H)

Mycothermus D.O. Natvig et al. 2018 (H)

Neoeriomycopsis Crous & M.J. Wingf. 2015 (H)

Neoidriella Hern.-Restr. & Crous 2015 (H)

Neolamproconium Crous & Akulov 2020 (C)

Nigrospora Zimm. 1902 (H)*

Paradiplococcium Hern.-Restr. et al. 2017 (H)

Paramicrodochium Hern.-Restr. & Crous 2015 (H)

Phialemoniopsis Perdomo et al. 2013 (C)

Phomatospora Sacc. 1875 with sporothrix-like asexual morph (H)*

Pleurophragmium Costantin 1888 (H)

Selenosporella G. Arnaud ex MacGarvie 1969 (H)

Stanjehughesia Subram. 1992 (H)*

Xenodium Syd. 1935 (H)*

Zalerion R.T. Moore & Meyers 1962 (H)

Class Xylonomycetes R. Gazis & P. Chaverri

Xylonomycetales R. Gazis & P. Chaverri

Xylonomycetaceae R. Gazis & P. Chaverri

Symbiotaphrina Kühlw. & Jurzitza ex W. Gams & Arx 1980 (C)

Trinosporium Crous & Decock 2012 (C)

Xylona Gazis & P. Chaverri 2012 (C)

ASCOMYCOTA families incertae sedis
Batistiaceae Samuels & K.F. Rodrigues
Batistia Cif. 1958 (H)**

Pseudeurotiaceae Malloch & Cain
Teberdinia Sogonov et al. 2005 (H)

Seuratiaceae Vuill. ex M.E. Barr
Atichia Flot. 1850 (H)

ASCOMYCOTA genera incertae sedis
Abropelta B. Sutton 1986 (C)
Acarella Syd. 1927 (C)
Acarellina Bat. & H. Maia 1960 (C)
Acaroconium Kocourk. & D. Hawksw. 2008 (C)
Acarocybe Syd. 1937 (H)
Acarocybella M.B. Ellis 1960 (H)
Acarocybellina Subram. 1992 (H)
Acarocybiopsis J. Mena et al. 1999 (H)
Acaropeltis Petr. 1937 (C)
Acerviclypeatus Hanlin 1990 (C)
Achoropeltis Syd. 1929 (C)
Acleistia Bayl. Ell. 1917 (C)
Acontium Morgan 1902 (H)
Acrodictyella W.A. Baker & Partr. 2001 (H)
Acrodictyopsis P.M. Kirk 1983 (H)
Acrodontiella U. Braun & Scheuer 1995 (H)
Acrophialophora Edward 1961 (H)
Acrophragmis Kiffer & Reisinger 1970 (H)
Acrospeira Berk. & Broome 1857 (H)
Acrostaurus Deighton & Piroz. 1972 (H)
Actinocladium Ehrenb. 1819 (H)
Actinotexis Arx 1960 (C)
Actinothecium Ces. 1854 (C)
Actinothyrium Kunze 1823 (C)
Acumisporea Matsush. 1980 (H)
Aenigmatospora R.F. Castañeda et al. 1999 (H)
Agaricodochium X.J. Liu 1981 (H)
Agarwalomyces R.K. Verma & Kamal 1987 (H)
Agrabeeja Subram. 1995 (H)
Agyriella Sacc. 1884 (H)
Agyriellopsis Höhn. 1903 (C)
Ahmadia Syd. 1939 (C)
Ajrekarella Kamat & Kalani 1964 (C)
Alatosessilispora K. Ando & Tubaki 1984 (H)
Alciiphila Harmaja 2002 (H)
Algonquinia R.F. Castañeda & W.B. Kendr. 1991 (H)
Alloneottiosporina Nag Raj 1993 (C)
Allothyriella Bat. et al. 1959 (C)
Allothyrina Bat. & J.L. Bezerra 1964 (C)
Allothyriopsis Bat. et al. 1959 (C)
Alpakesa Subram. & K. Ramakr. 1954 (C)

Alpakesiopsis Abbas et al. 2003 (C)
Alveariospora Meir. Silva et al. 2012 (H)
Alveophoma Alcalde 1952 (C)
Alysidiopsis B. Sutton 1973 (H)
Amallospora Penz. 1897 (H)
Amblyosporium Fresen. 1863 (H)
Ameroconium U. Braun & Zhurb. 2013 (H)
Amerodiscosiella M.L. Farr 1961 (C)
Amerodiscosiellina Bat. & Cavalc. 1966 (C)
Amerosporiopsis Petr. 1941 (C)
Amerosporium Speg. 1882 (C)
Amerosympodula Matsush. 1996 (H)
Amoenodochium Peláez & R.F. Castañeda 1996 (H)
Amoenomyces R.F. Castañeda et al. 1996 (H)
Amphichaetella Höhn. 1916 (H)
Amphichordia Fr. 1825 (H)
Amphophialis R.F. Castañeda et al. 1998 (H)
Amphoropycnium Bat. 1963 (C)
Ampullicephala R.F. Castañeda et al. 2009 (H)
Ampulliferina B. Sutton 1969 (H)
Anabahusakala Carmo et al. 2014 (H)
Anacoronospora J.S. Monteiro et al. 2016 (H)
Anacraspedodidymum C.R. Silva et al. 2014 (H)
Anaexserticlava T.S. Santa Izabel et al. 2015 (H)
Anaphysmene Bubák 1906 (C)
Anarhyma M.H. Pei & Z.W. Yuan 1986 (C)
Anaselenosporella Heredia et al. 2010 (H)
Anaseptoidium R.F. Castañeda et al. 2012 (H)
Anaverticicladus P.O. Costa et al. 2016 (H)
Ancoraspora Mig. Rodr. 1982 (H)
Ancoraspora J. Mena et al. 2017 (H)
Angiopomopsis Höhn. 1912 (C)
Angulimaya Subram. & Lodha 1964 (H)
Angulospora Sv. Nilsson 1962 (H)
Annellodentimyces Matsush. 1985 (H)
Annellodochium Deighton 1969 (H)
Annellophora S. Hughes 1952 (H)
Annellophorella Subram. 1962 (H)
Annellophragmia Subram. 1963 (H)
Annellospermosporella P.R. Johnst. 1999 (H)
Annellosympodia McTaggart et al. 2007 (H)
Antennatula Fr. ex F. Strauss 1850 (H)
Antennopsis R. Heim 1952 (H)
Anthopsis Fil. March. et al. 1977 (H)
Anthracoderma Speg. 1888 (C)
Antromyces Fresen. 1850 (H)
Anulohypha Cif. 1962 (H)
Anungitopsis R.F. Castañeda & W.B. Kendr. 1990 (H)
Aoria Cif. 1962 (C)
Aphanofalx B. Sutton 1986 (C)
Apiocarpella Syd. & P. Syd. 1919 (C)
Apiosporium Kunze 1817 (C)

Apogloeum Petr. 1954 (C)
Apomelasmia Grove 1937 (C)
Aporellula B. Sutton 1986 (C)
Aposporella Thaxt. 1920 (H)
Apostrasseria Nag Raj 1983 (C)
Arachnophora Hennebert 1963 (H)
Arachnospora R.F. Castañeda et al. 2003 (H)
Arborillus Munt.-Cvetk. & Gómez-Bolea 1998 (H)
Arborispora K. Ando 1986 (H)
Arcuadendron Sigler & J.W. Carmich. 1976 (H)
Ardhachandra Subram. & Sudha 1978 (H)
Argopericonia B. Sutton & Pascoe 1987 (H)
Aristastoma Tehon 1933 (C)
Arthrobotryum Ces. 1854 (C)
Arthrocristula Sigler et al. 1982 (H)
Arthromoniliphora S.S. Silva et al. 2017 (H)
Arthropycnis Constant. 1992 (C)
Arthrosporium Sacc. 1880 (H)
Arthrowallemia R.F. Castañeda et al. 1998 (H)
Articulophora C.J.K. Wang & B. Sutton 1982 (H)
Asbolisiomyces Bat. & H. Maia 1961 (C)
Ascochytopsis Henn. 1905 (C)
Ascochytulina Petr. 1922 (C)
Ascospora Mont. 1849 (C)
Ashtaangam Subram. 1995 (H)
Aspilaima Bat. & H. Maia 1961 (C)
Astelechia Cif. 1962 (H)
Asterinothyriella Bat. & Cif. 1959 (C)
Asterinothyrium Bat. et al. 1959 (C)
Asteroconium Syd. & P. Syd. 1903 (C)
Asteroglobulus Brackel 2011 (C)
Asteromyces F. Moreau & V. Moreau 1962 (H)
Asteroscutula Petr. 1948 (C)
Asterostomopora Bat. & H. Maia 1960 (C)
Asterostomopsis Bat. et al. 1959 (C)
Asterostomula Theiss. 1916 (C)
Asterostomulina Bat. et al. 1964 (C)
Astronatelia Bat. & H. Maia 1962 (C)
Atractilina Dearn. & Barthol. 1924 (H)
Atrogeniculata J.S. Monteiro et al. 2014 (H)
Atrosetiphiale Matsush. 1995 (H)
Atrosynnema J.W. Xia et al. 2016 (H)
Aurosphaeria Sun J. Lee et al. 2009 (C)
Avesicladiella W.P. Wu et al. 1997 (H)
Avettaea Petr. & Syd. 1927 (C)
Bachmanniomyces D. Hawksw. 1981 (C)
Bacillopeltis Bat. 1957 (C)
Bactridium Kunze 1817 (H)
Bactrodesmiella M.B. Ellis 1959 (H)
Badarisama Kunwar et al. 1986 (H)
Bahuchashaka Subram. 1978 (H)
Bahugada K.A. Reddy & Vasant Rao 1984 (H)

Bahukalasa Subram. & Chandrash. 1979 (H)
Balaniopsis P.M. Kirk 1985 (H)
Balanium Wallr. 1833 (H)
Barbarosporina Kırulis 1942 (C)
Barnettella D. Rao & P. Rag. Rao 1964 (C)
Basauxia Subram. 1995 (H)
Basifimbria Subram. & Lodha 1968 (H)
Batistina Peres 1961 (C)
Beauveriphora Matsush 1975 (H)
Beccopycnidium F. Stevens 1930 (C)
Beejadwaya Subram. 1978 (H)
Belemnospora P.M. Kirk 1981 (H)
Bellulicauda B. Sutton 1967 (C)
Beltramono Rashmi Dubey et al. 2011 (H)
Beltraniomyces Monohar et al. 2003 (H)
Beniowskia Racib. 1900 (H)
Benjpalia Subram. & Bhat 1989 (H)
Bhadradriella Nagaraju et al. 2011 (H)
Bhadradriomyces Sureshk. et al. 2009 (H)
Bharatheeya D'Souza & Bhat 2002 (H)
Bhatia W.A. Baker & Morgan-Jones 2009 (H)
Bibanasella R.F. Castañeda & W.B. Kendr. 1991 (H)
Bicoloromyces Heuchert et al. 2015 (H)
Biflagellospora Matsush. 1975 (H)
Biflagellosporella Matsush. 1993 (H)
Bimeris Petr. 1949 (C)
Bioconiosporium Bat. & J.L. Bezerra 1964 (H)
Biophomopsis Petr. 1931 (C)
Bisbyopeltis Bat. & A.F. Vital 1957 (C)
Bispora Corda 1837 (H)
Bisporostilbella Brandsb. & E.F. Morris 1971 (H)
Bisseomyces R.F. Castañeda 1985 (H)
Blastocatena Subram. & Bhat 1989 (H)
Blastodictys M.B. Ellis 1976 (H)
Blastofusarioides Matsush. 1996 (H)
Blastophorella Boedijn 1937 (H)
Blastophragma Subram. 1995 (H)
Blennoria Moug. & Fr. 1825 (C)
Blennoriopsis Petr. 1919 (C)
Bleptosporium Steyaert 1961 (C)
Blodgettia Harv. 1858 (H)
Bomplandiella Speg. 1886 (H)
Bostrichonema Ces. 1867 (H)
Botryoderma Papendorf & H.P. Upadhyay 1969 (H)
Botryodiplodina Dias & Sousa da Câmara 1954 (C)
Botryomonilia Goos & Piroz. 1975 (H)
Botryostroma Höhn. 1911 (C)
Brachycephala J.S. Monteiro et al. 2015 (H)
Brachydesmiella G. Arnaud ex S. Hughes 1961 (H)
Brachysporiellina Subram. & Bhat 1989 (H)
Brachysporiopsis Yanna et al. 2004 (H)
Braunomyces V.A. Melnik & Crous 2014 (H)

Brefeldiopycnis Petr. & Cif. 1932 (H)
Brencklea Petrak 1923 (C)
Brevicatenospora R.F. Castañeda et al. 2006 (H)
Briana D.R. Reynolds 1989 (H)
Briosia Cavara 1888 (H)
Brycekendrickia Nag Raj 1973 (C)
Bryophytomyces Cif. 1953 (H)
Bulbilopycnis Matsush. 1996 (C)
Bulbocatenospora R.F. Castañeda & Iturr. 2000 (H)
Bullaserpens Bat. et al. 1965 (C)
Cacumisporium Preuss 1851 (H)
Caeruleoconidia to Zhurb. & Pino-Bodas 2017 (C)
Calcarispora Marvanová & Marvan 1963 (H)
Calceispora Matsush. 1975 (H)
Callistospora Petr. 1955 (C)
Calocline Syd. 1939 (C)
Calongeomyces D. Hawksw. & Etayo 2011 (H)
Camaroglobulus Speer 1986 (C)
Camaropycnis E.K. Cash 1945 (C)
Camarosporellum Tassi 1902 (C)
Camarosporiopsis Abbas et al. 2000 (C)
Camposporidium Nawawi & Kuthub. 1988 (H)
Camptomeris Syd. 1927 (H)
Candelabrum Beverw. 1951 (H)
Candelosynnema K.D. Hyde & Seifert 1992 (H)
Capitorostrum Bat. 1957 (C)
Capnocheirides J.L. Crane & S. Hughes 1982 (H)
Capnodiastrum Speg. 1886 (C)
Capnofrasera S. Hughes 2003 (H)
Capnosporium S. Hughes 1976 (H)
Capsicumyces Gamundí et al. 1979 (H)
Carnegieispora Etayo & F. Berger 2009 (C)
Carrismyces R.F. Castañeda & Heredia 2000 (H)
Casaresia Gonz. Frag. 1920 (H)
Castanedaea W.A. Baker & Partr. 2001 (H)
Catenella Bat. & Peres 1963 (C)
Catenocuneiphora Matsush. 2003 (H)
Catenophora Luttr. 1940 (C)
Catenophoropsis Nag Raj & W.B. Kendr. 1988 (C)
Catenospegazzinia Subram. 1991 (H)
Catenosubulisporea Matsush. 1971 (H)
Catenosynnema Kodsueb et al. 2007 (H)
Catenulaster Bat. & C.A.A. Costa 1959 (C)
Catinopeltis Bat. & C.A.A. Costa 1957 (C)
Catinula Lév. 1848 (C)
Cecidiomyces U. Braun & Zhurb. 2012 (H)*
Ceeveesubramaniomyces Pratibha et al. 2005 (H)
Ceratocladium Corda 1839 (H)
Ceratophorum Sacc. 1880 (H)
Ceratopycnis Höhn. 1915 (C)
Ceratosporella Höhn. 1923 (H)
Ceratosporium Schwein. 1832 (H)

Cercosperma G. Arnaud ex B. Sutton & Hodges 1983 (H)
Ceuthodiplospora Died. 1912 (C)
Ceuthosira Petr. 1924 (C)
Ceuthosporella Petr. & Syd. 1923 (C)
Chaetendophragma Matsush. 1971 (H)
Chaetoblastophorum Morgan-Jones 1977 (H)
Chaetochalara B. Sutton & Piroz. 1965 (H)
Chaetocystostroma Petr. 1920 (C)
Chaetodiplis Clem. 1931 (C)
Chaetodiplodina Speg. 1910 (C)
Chaetopeltaster Katum. 1975 (C)
Chaetophiophoma Speg. 1910 (C)
Chaetopsis Grev. 1825 (H)
Chaetopyrena Pass. 1881 (C)
Chaetoseptoria Tehon 1937 (C)
Chaetosticta Petr. & Syd. 1925 (C)
Chalarodendron C.J.K. Wang & B. Sutton 1984 (H)
Chalarodes McKenzie 1991 (H)
Chantransiopsis Thaxt. 1914 (H)
Characonidia Bat. & Cavalc. 1965 (C)
Charomyces Seifert 1987 (H)
Chasakopama Manohar. et al. 2009 (H)
Cheilaria Lib. 1830 (C)
Cheiroidea W.A. Baker & Morgan-Jones 2009 (H)
Cheiromycella Höhn. 1910 (H)
Cheiromycesopsis Mercado & J. Mena 1988 (H)
Cheiromyces Berk. & M.A. Curtis 1857 (H)
Cheiromycina B. Sutton 1986 (H)
Cheiropolyschema Matsush. 1980 (H)
Chiastospora Riess 1852 (C)
Chionomyces Deighton & Piroz. 1972 (H)
Chithramia Nag Raj 1988 (C)
Chlamydomyces Bainier 1907 (H)
Chlamydopsis Hol.-Jech. & R.F. Castañe-da 1986 (H)
Choanatiara DiCosmo 1984 (C)
Choreospora Constant. & R. Sant. 1987 (H)
Chromosporium Corda 1829 (H)
Chrysachne Cif. 1938 (H)
Chrysalidopsis Steyaert 1961 (C)
Chryseidea Onofri 1981 (H)
Cicinnobella Henn. 1904 (C)
Ciferria Gonz. Frag. 1925 (C)
Ciferriella Petr. 1930 (C)
Ciferrina Petr. 1932 (C)
Ciferriopeltis Bat. & H. Maia 1965 (C)
Ciferrioxypium Bat. & H. Maia 1963 (H)
Ciliochora Höhn. 1919 (C)
Ciliophora Petr. 1929 (C)
Ciliophorella Petr. 1940 (C)
Ciliosporella Petr. 1927 (C)
Circinoconiopsis A. Hern.-Gut. 2013 (H)
Circinoconis Boedijn 1942 (H)

Cissococcomyces Brain 1923 (H)
Civisubramaniana Vittal & Dorai 1986 (H)
Cladoconidium Bandoni & Tubaki 1985 (H)
Cladoniicola Diederich et al. 2001 (C)
Cladosporiella Deighton 1965 (H)
Cladosporiopsis S.C. Ren & X.G. Zhang 2012 (H)
Clasteropycnis Bat. & Cavalc. 1963 (C)
Clathroconium Samson & H.C. Evans 1982 (H)
Clauzadeomyces Diederich 1994 (H)
Clavariana Nawawi 1976 (H)
Cleistocystis Sousa da Câmara 1931 (C)
Cleistonium Speer 1986 (C)
Cleistophoma Petr. & Syd. 1927 (C)
Clypeispora A.W. Ramaley 1991 (C)
Clypeochorella Petr. 1923 (C)
Clypeopatella Petr. 1942 (C)
Clypeophialophora Bat. & Peres 1962 (C)
Clypeopycnis Petr. 1925 (C)
Clypeoseptoria F. Stevens & P.A. Young 1925 (C)
Clypeostagonospora Punith. 1981 (C)
Coccogloeum Petr. 1955 (C)
Codonmyces Calat. & Etayo 1999 (H)
Colemaniella Agnihothr. 1974 (H)
Coleodictyospora Charles 1929 (H)
Coleoseptoria Petr. 1940 (C)
Colispora Marvanová 1988 (H)
Colleticonis de Hoog & Aa 1978 (C)
Colletosporium Link 1824 (H)
Collostroma Petr. 1947 (C)
Columnodomus Petr. 1941 (C)
Columnothyrium Bubák 1916 (C)
Comatospora Piroz. & Shoemaker 1971 (C)
Comocephalum Syd. 1939 (C)
Complexipes C. Walker 1979 (H)
Condylospora Nawawi 1976 (H)
Coniambigua Etayo & Diederich 1995 (C)
Conioscyphopsis Goh & K.D. Hyde 1998 (H)
Coniothyria Syd. 1912 (C)
Conjunctospora Udagawa & Uchiy. 1999 (H)
Conostoma Bat. & J.L. Bezerra 1965 (C)
Conostroma Moesz 1921 (C)
Consetiella Hol.-Jech. & Mercado 1982 (H)
Coremiella Bubák & K. Krieg. 1912 (H)
Cornucopiella Höhn. 1915 (C)
Cornutispora Piroz. 1973 (C)
Cornutostilbe Seifert 1990 (H)
Corynecercospora V.K. Pal et al. 2006 (H)
Corynesporella Munjal & H.S. Gill 1961 (H)
Corynesporina Subram. 2009 (H)
Corynesporopsis P.M. Kirk 1981 (H)
Costanetia Bat. & J.L. Bezerra 1963 (C)
Crandallia Ellis & Sacc. 1897 (C)

Craneomyces Morgan-Jones et al. 1987 (H)
Craspedodidimella F.R. Barbosa et al. 2020 (H)
Creodiplodina Petr. 1957 (C)
Creonecte Petr. 1949 (C)
Creoseptoria Petr. 1937 (C)
Creothyriella Bat. & C.A.A. Costa 1957 (C)
Cribropeltis Tehon 1933 (C)
Crousobrauniella Sh. Kumar et al. 2018 (H)
Crustodiplodina Punith. 1988 (C)
Cryptoceuthospora Petr. 1921 (C)
Cryptocline Petr. 1924 (C)
Cryptocoryneopsis B. Sutton 1980 (H)
Cryptophialoidea Kuthub. & Nawawi 1987 (H)
Cryptosporium Kunze 1817 (C)
Cryptumbellata Udagawa & Uchiy. 1999 (H)
Ctenosporium R. Kirschner 2006 (H)
Cubasina R.F. Castañeda 1986 (H)
Culicidospora R.H. Petersen 1960 (H)
Culicinomyces Couch et al. 1974 (H)
Curucispora Matsush. 1981 (H)
Curvulariopsis M.B. Ellis 1961 (H)
Cyanopatella Petr. 1949 (C)
Cyclomarsonina Petr. 1965 (C)
Cylindrogloeum Petr. 1941 (C)
Cylindromyces Manohar. et al. 2004 (H)
Cylindrothyrium Maire 1907 (C)
Cylindroxypium Bat. & Cif. 1963 (C)
Cystidiella Malan 1943 (Y)
Cystotricha Berk. & Broome 1850 (C)
Cytodiscula Petr. 1931 (C)
Cytogloeum Petr. 1925 (C)
Cytonaema Höhn. 1914 (C)
Cytoplacosphaeria Petr. 1920 (C)
Cytosphaera Died. 1916 (C)
Cytosporella Sacc. 1884 (C)
Cyttariella Palm 1932 (C)
Dactylifera Alcorn 1987 (H)
Dactylosporium Harz 1871 (H)
Dasysticta Speg. 1912 (C)
Davisiella Petr. 1924 (C)
Dearnessia Bubák 1916 (C)
Deccanodia Singhai 1974 (C)
Deichmannia Alstrup & D. Hawksw. 1990 (H)
Delortia Pat. & Gaillard 1888 (H)
Dendrodomus Bubák 1915 (C)
Dendrographiella Agnihothr. 1972 (H)
Dendrographium Massee 1892 (H)
Dendrospora Ingold 1943 (H)
Dendrosporium Plakidas & Edgerton ex J.L. Crane 1972 (H)
Dendryphiosphaera Lunghini & Rambelli 1978 (H)
Dennisographium Rifai 1977 (H)
Denticularia Deighton 1972 (H)

Dentocircinomyces R.F. Castañeda & W.B. Kendr. 1990 (H)
Descalsia A. Roldán & Honrubia 1989 (H)
Desertella Mouch. 1979 (H)
Desmidiospora Thaxt. 1891 (H)
Dexhowardia J.J. Taylor 1970 (H)
Diademospora B.E. Söderstr. & Bååth 1979 (H)
Diarimella B. Sutton 1980 (C)
Dichelostroma Bat. & Peres 1963 (C)
Dicholobodigitus G.P. White & Illman 1988 (H)
Dichotomophthoropsis M.B. Ellis 1971 (H)
Dichotophora Whitton et al. 2012 (H)
Dictyoaquaphila J.S. Monteiro et al. 2016 (H)*
Dictyoarthrinium S. Hughes 1952 (H)
Dictyocatenulata Finley & E.F. Morris 1967 (H)
Dictyoceratosporella Y.R. Ma & X.G. Zhang 2016 (H)
Dictyodesmium S. Hughes 1951 (H)
Dictyodochium Sivan. 1984 (H)
Dictyophrynella Bat. & Cavalc. 1964 (H)
Dictyopolyschema M.B. Ellis 1976 (H)
Dictyorostrella U. Braun 1999 (H)
Dictyospiropes M.B. Ellis 1976 (H)
Dictyotrichocladium Fiuza et al. 2017 (H)
Didymochaetina Bat. & J.L. Bezerra 1965 (C)
Didymochora Höhn. 1918 (C)
Didymopsis Sacc. & Marchal 1885 (H)
Didymosporina Höhn. 1916 (C)
Diedickeia Syd. & P. Syd. 1913 (C)
Digicatenosporium S.M. Leão et al. 2015 (H)
Digitodochium Tubaki & Kubono 1989 (H)
Digitomyces Mercado et al. 2003 (H)
Digitopodium U. Braun et al. 2005 (H)
Digitoramispora R.F. Castañeda & W.B. Kendr. 1990 (H)
Digitosarcinella S. Hughes 1984 (H)
Dimastigosporium Faurel & Schotter 1965 (C)
Diplocladiella G. Arnaud ex M.B. Ellis 1976 (H)
Diplodinis Clem. 1931 (C)
Diplodinula Tassi 1902 (C)
Diploplenodomus Died. 1912 (C)
Diplosporonea Höhn. 1917 (C)
Diplozythiella Died. 1916 (C)
Discogloeum Petr. 1923 (C)
Discomycetoidea Matsush. 1993 (H)
Discosiella Syd. & P. Syd. 1912 (C)
Discosiellina Subram. & K.R.C. Reddy 1972 (C)
Discosporina Höhn. 1927 (C)
Discotheciella Syd. & P. Syd. 1917 (C)
Discozythia Petr. 1922 (C)
Dissitimurus E.G. Simmons et al. 1987 (H)
Distophragmia R.F. Castañeda et al. 2015 (H)
Ditangifibula G.C. Adams 1996 (H)
Domingoella Petr. & Cif. 1932 (H)
Dothideodiplodia Murashk. 1927 (C)

Dothioropsis Riedl 1974 (C)
Drepanospora Berk. & M.A. Curtis 1875 (H)
Drudeola Kuntze 1891 (C)
Drumopama Subram. 1957 (H)
Dryosphaera Jørg. Koch & E.B.G. Jones 1989 (C)
Dualomyces Matsush. 1987 (H)
Dwayabeeja Subram. 1958 (H)
Dwayaloma Subram. 1957 (H)
Dwayalomella Brisson et al. 1975 (C)
Dwibahubeeja N. Srivast. et al. 1995 (H)
Dwibeeja Subram. 1995 (H)
Dwiropella Subram. & Muthumary 1986 (C)
Ebollia Minter & Caine 1980 (C)
Echinocatena R. Campb. & B. Sutton 1977 (H)
Echinochondrium Samson & Aa 1975 (H)
Echinoconidiophorum Pereira-Carv. & Dianese 2009 (H)
Elachopeltella Bat. & Cavalc. 1964 (C)
Elattopycnis Bat. & Cavalc. 1964 (C)
Elegantimyces Goh et al. 1998 (H)
Elletevera Deighton 1969 (H)
Ellisembiopsis T.S. Santa Izabel & Gusmão 2013 (H)
Ellismarsporium R.F. Castañeda & X.G. Zhang 2017 (H)
Elotespora R.F. Castañeda & Heredia 2010 (H)
Embryonispora G.Z. Zhao 2013 (H)
Enantioptera Descals 1983 (H)
Endobotrya Berk. & M.A. Curtis 1874 (C)
Endobotryella Höhn. 1909 (C)
Endoconospora Gjaerum 1971 (H)
Endocoryneum Petr. 1922 (C)
Endocoryneum Petr. 1922 (C)
Endogenospora R.F. Castañeda et al. 2010 (H)
Endomelanconium Petr. 1940 (C)
Endophragmiopsis M.B. Ellis 1966 (H)
Endoplacodium Petr. 1949 (C)
Endoramularia Petr. 1923 (C)
Endosporoideus W.H. Ho et al. 2005 (H)
Endozythia Petr. 1959 (C)
Enerthidium Syd. 1939 (C)
Engelhardtella A. Funk 1973 (H)
Enridescalsia R.F. Castañeda & Guarro 1998 (H)
Enthallopycnidium F. Stevens 1925 (C)
Entoderma Hanula et al. 1991 (C)
Epaphroconidia Calat. & V. Atienza 1995 (C)
Ephelidium C.W. Dodge & E.D. Rudolph 1955 (C)
Epiclinium Fr. 1849 (C)
Epicocospora Budathoki & S.K. Singh 1995 (H)
Epidermidophyton E. Lang 1879 (H)
Epinephroma Zhurb. 2012 (C)
Episporogoniella U. Braun 1994 (H)
Epistigme Syd. 1924 (C)
Epithyrium (Sacc.) Trotter 1931 (C)
Eriocercospora Deighton 1969 (H)

Eriocercospora Rak. Kumar et al. 1998 (H)
Eriomycopsis Speg. 1910 (H)
Eriospora Berk. & Broome 1850 (C)
Ernakulamia Subram. 1996 (H)
Erysiphopsis Speg. 1910 (C)
Esteya J.Y. Liou et al. 1999 (H)
Eustilbum Rabenh. 1864 (H)
Evanidomus Caball. 1941 (C)
Everhartia Sacc. & Ellis 1882 (H)
Everniicola D. Hawksw. 1982 (C)
Eversia J.L. Crane & Schokn. 1977 (H)
Excipularia Sacc. 1884 (H)
Exophoma Weedon 1926 (C)
Exosporella Höhn. 1912 (H)
Exosporodiella Ganie et al. 2012 (C)
Fairmaniella Petr. & Syd. 1926 (C)
Favostroma B. Sutton & E.M. Davison 1983 (C)
Feltgeniomyces Dieder. 1990 (H)
Fenestroconidia Calat. & Etayo 1999 (H)
Fissuricella Pore et al. 1977 (H)
Flabellocladia Nawawi 1985 (H)
Flabellospora Alas. 1968 (H)
Flosculomyces B. Sutton 1978 (H)
Frigidispora K.D. Hyde & Goh 1999 (C)
Fujimyces Minter & Caine 1980 (C)
Fuligomyces Morgan-Jones & Kamal 1984 (H)
Fumagopsis Speg. 1910 (H)
Funicularius K.K. Baker & Zaim 1979 (H)
Furcaspora Bonar 1965 (C)
Fusamen (Sacc.) P. Karst. 1890 (C)
Fuscophialis B. Sutton 1977 (H)
Fusichalara S. Hughes & Nag Raj 1973 (H)
Fusisporella Speg. 1911 (H)
Fusticeps J. Webster & R.A. Davey 1980 (H)
Gampsonema Nag Raj 1975 (C)
Gangliophora Subram. 1992 (H)
Gangliostilbe Subram. & Vittal 1976 (H)
Garnaudia Borowska 1977 (H)
Gaubaea Petr. 1942 (C)
Geastrumia Bat. 1960 (C)
Gelatinocrinis Matsush. 1995 (H)
Gelatinopycnis Dyko & B. Sutton 1979 (C)
Geminoarcus K. Ando 1993 (H)
Gemmulina Descals & Marvanová 1999 (H)
Geohypha (Fr.) Hennebert 2020 (H)
Gilmaniella G.L. Barron 1964 (H)
Glaphyriopsis B. Sutton & Pascoe 1987 (C)
Glioannellodochium Matsush. 1989 (H)
Glioblastocladium Matsush. 1989 (H)
Globoconidiopsis G.F. Sepúlveda et al. 2009 (H)
Globoconidium G.F. Sepúlveda et al. 2009 (H)
Gloeocoryneum Weindlm. 1964 (C)

Gloeodes Colby 1920 (C)
Gloeosporiella Cavara 1892 (H)
Gloiosphaera Höhn. 1902 (H)
Glutinium Fr. 1849 (C)
Goidanichiella G.L. Barron ex W. Gams 2009 (H)
Gonatobotryum Sacc. 1880 (H)
Goniopila Marvanová & Descals 1985 (H)
Goosiella Morgan-Jones et al. 1986 (H)
Goosomyces N.K. Rao & Manohar. 1989 (H)
Grallomyces F. Stevens 1918 (H)
Graphiothecium Fuckel 1870 (H)
Groveolopsis Boedijn 1951 (C)
Guarroa M. Calduch et al. 2020 (H)
Guedea Rambelli & Bartoli 1978 (H)
Guelichia Speg. 1886 (H)
Gymnoxyphium Cif. et al. 1963 (C)
Gyrothrix (Corda) Corda 1842 (H)
Hadronema Syd. & P. Syd. 1909 (H)
Hadrosporium Syd. 1938 (H)
Halysiomycetes E.G. Simmons 1981 (H)
Hansfordia S. Hughes 1951 (H)
Hansfordiopeltis Bat. & C.A.A. Costa 1956 (C)
Hansfordiopeltopsis M.L. Farr 1986 (C)
Hapalosphaeria Syd. 1908 (C)
Haplariopsis Oudem. 1903 (H)
Haplobasidion Erikss. 1889 (H)
Haplolepis Syd. 1925 (C)
Haptocara Drechsler 1975 (H)
Harmoniella V.N. Boriss. 1981 (H)
Harpographium Sacc. 1880 (H)
Harpostroma Höhn. 1928 (C)
Hawksworthiana U. Braun 1988 (H)
Heimiodora Nicot 1960 (H)
Helensiella Minter et al. 2015 (H)
Helhonia B. Sutton 1980 (C)
Helicofilia Matsush. 1983 (H)
Helicogoosia Hol.-Jech. 1991 (H)
Helicominopsis Deighton 1960 (H)
Helicorhoidion S. Hughes 1958 (H)
Helicosingula P.S. van Wyk et al. 1985 (H)
Helicothyrium I. Hino & Katum. 1961 (C)
Helicoubisia Lunghini & Rambelli 1979 (H)
Heliscella Marvanová 1980 (H)
Heliscina Marvanová 1980 (H)
Helminthosporiomyces G.F. Sepúlveda et al. 2009 (H)
Hemicorynesporella Subram. 1992 (H)
Hemidothis Syd. & P. Syd. 1916 (C)
Hemisphaeropsis Petr. 1947 (C)
Hendersoniella Tassi 1900 (C)
Hendersonina E.J. Butler 1913 (C)
Hendersoniopsis Höhn. 1918 (C)
Hendersonula Speg. 1880 (C)

Hendersonulina Petr. 1951 (C)
Henicospora P.M. Kirk & B. Sutton 1980 (H)
Herposira Syd. 1938 (H)
Herreromyces R.F. Castañeda & W.B. Kendr. 1991 (H)
Heterocephalum Thaxt. 1903 (H)
Heteroconidium Sawada 1944 (H)
Heterosporiopsis Petr. 1950 (H)
Hexacladium D.L. Olivier 1983 (H)
Himantia Pers. 1801 (?sterile)
Hinoa Hara & I. Hino 1961 (H)
Hirudinaria Ces. 1856 (H)
Hobsoniopsis D. Hawksw. 2001 (H)
Hoehneliella Bres. & Sacc. 1902 (C)
Holubovaea Mercado 1983 (H)
Homalopeltis Bat. & Valle 1961 (C)
Hoornsmania Crous 2007 (H)
Hormiactis Preuss 1851 (H)
Hormiokrypsis Bat. & Nascim. 1957 (H)
Hormiscioideus M. Blackw. & Kimbr. 1979 (H)
Hormocephalum Syd. 1939 (H)
Hormographis Guarro et al. 1986 (H)
Hughesinia J.C. Lindq. & Gamundí 1970 (H)
Humicolopsis Verona 1977 (H)
Hyalobelemnospora Matsush. 1993 (H)
Hyalocamposporium Révay & J. Gönczöl 2007 (H)
Hyalcephalotrichum Nagaraju et al. 2011 (H)
Hyalocladium Mustafa 1977 (H)
Hyalocylindrophora J.L. Crane & Dumont 1978 (H)
Hyalodictyum Woron. 1916 (C)
Hyalohelicomina T. Yokoy. 1974 (H)
Hyalopleiochaeta R.F. Castañeda et al. 1996 (H)
Hyalosynnema Matsush. 1975 (H)
Hyalothyridium Tassi 1900 (C)
Hyalotiella Papendorf 1967 (C)
Hydrometrospora J. Gönczöl & Révay 1985 (H)
Hymenella Fr. 1822 (H)
Hymeniopeltis Bat. 1959 (C)
Hymenobactron (Sacc.) Höhn. 1916 (H)
Hymenopsis Sacc. 1886 (C)
Hyphodiscosia Lodha & K.R.C. Reddy 1974 (H)
Hyphodiscosioides Matsush. 1993 (H)
Hyphopolynema Nag Raj 1977 (H)
Hyphostereum Pat. 1892 (C)
Hyphothyrium B. Sutton & Pascoe 1989 (H)
Hyphozyma de Hoog & M.T. Sm. 1981 (H)
Hypocline Syd. 1939 (C)
Hypodermina Höhn. 1916 (C)
Hypogloeum Petr. 1923 (C)
Hysteridium P. Karst. 1905 (C)
Hysterodiscula Petr. 1942 (C)
Hysteropycnis Hilitzer 1929 (C)
Ialomitzia Gruia 1964 (H)

Idiocercus B. Sutton 1967 (C)
Imicles Shoemaker & Hambl. 2001 (H)
Impudentia Vujanović 2003 (H)
Inesiosporium R.F. Castañeda & W. Gams 1997 (H)
Inifatiella R.F. Castañeda 1985 (H)
Intercalarispora J.L. Crane & Schokn. 1983 (H)
Ionophragmium Peres 1961 (C)
Irpicomycetes Deighton 1969 (H)
Isaria Pers. 1794 (H)
Isariella Henn. 1908 (H)
Ischnostroma Syd. & P. Syd. 1914 (H)
Isthmoconidium Etayo & Fr. Berger 2013 (H)*
Isthmolongispora Matsush. 1971 (H)
Isthmophragmospora Kuthub. & Nawawi 1992 (H)
Isthmospora F. Stevens 1918 (H)
Isthmotricladia Matsush. 1971 (H)
Ityorhoptrum P.M. Kirk 1986 (H)
Iyengarina Subram. 1958 (H)
Jahniella Petr. 1921 (C)
Javonarxia Subram. 1995 (H)
Jayarambhatia J. Pratibha 2013 (H)
Jerainum Nawawi & Kuthub. 1992 (H)
Jubispora B. Sutton & H.J. Swart 1986 (C)
Junctospora Minter & Hol.-Jech. 1981 (H)
Junewangia W.A. Baker & Morgan-Jones 2002 (H)
Kalamarospora G. Delgado 2011 (H)
Kalchbrenneriella Diederich & M.S. Christ. 2002 (H)
Kaleidosporium Van Warmelo & B. Sutton 1981 (C)
Kamatella Anahosur 1969 (C)
Kamatia V.G. Rao & Subhedar 1976 (H)
Kameshwaromyces Kamal et al. 1986 (H)
Karsteniomyces D. Hawksw. 1980 (C)
Kendrickiella K. Jacobs & M.J. Wingf. 2001 (H)
Ketubakia Kamat et al. 1987 (H)
Kiliophora Kuthub. & Nawawi 1993 (H)
Kionocephala P.M. Kirk 1986 (H)
Kmetia Bres. & Sacc. 1902 (H)
Kmetiopsis Bat. & Peres 1960 (H)
Knemiothyrium Bat. & J.L. Bezerra 1960 (C)
Kodonospora K. Ando 1993 (H)
Kolletes Kohlm. & Volkm.-Kohlm. 2005 (H)
Kontospora A. Roldán et al. 1990 (H)
Korunomyces Hodges & F.A. Ferreira 1981 (H)
Kostermansinda Rifai 1968 (H)
Kostermansindiopsis R.F. Castañeda 1986 (H)
Kramabeeja G.V. Rao & K.A. Reddy 1981 (H)
Kramasamuha Subram. & Vittal 1973 (H)
Kreiseliella Braun 1991 (C)
Kumanasamuha P.Rag. Rao & D. Rao 1964 (H)
Kutilakesa Subram. 1956 (H)
Kyphophora B. Sutton 1991 (C)
Lacellina Sacc. 1913 (H)

Lacellinopsis Subram. 1953 (H)
Laciniocladium Petri 1917 (H)
Laeviomyces D. Hawksw. 1981 (C)
Lagenomyces Cavalc. & A.A. Silva 1972 (C)
Lambdasporium Matsush. 1971 (H)
Lambinonia Sérus. & Diederich 2005 (H)
Laocoön J.C. David 1997 (H)
Lappodochium Matsush. 1975 (H)
Lasiodiplodiella Zambett. 1955 (C)
Lasiophoma Speg. 1918 (C)
Lasiothyrium Syd. & P. Syd. 1913 (C)
Lasmeniella Petr. & Syd. 1927 (C)
Latericonis G.V. Rao et al. 1984 (H)
Lateriramulosa Matsush. 1971 (H)
Laterispora Uecker et al. 1982 (H)
Lawalreea Dieder. 1990 (C)
Lecaniocola Brain 1923 (C)
Lecophagus M.W. Dick 1990 (H)
Leeina Petr. 1923 (C)
Leightonimyces D. Hawksw. & B. Sutton 1977 (H)
Lembuncula Cif. 1954 (C)
Lemkea Morgan-Jones & R.C. Sinclair 1983 (H)
Lepisticola W. Gams 2009 (H)
Leprieurinella Bat. & H. Maia 1961 (C)
Leptochlamys Died. 1921 (C)
Leptodermella Höhn. 1915 (C)
Leptomelanconium Petr. 1923 (C)
Leptophyllosticta I.E. Brezhnev 1939 (C)
Leptostromella (Sacc.) Sacc. 1884 (C)
Leptothyrella Sacc. 1885 (C)
Leptothyrina Höhn. 1915 (C)
Leptothyrium Kunze 1823 (C)
Leucodochium Syd. & P. Syd. 1917 (H)
Leuliisinea Matsush. 1985 (H)
Libertiella Speg. & Roum. 1880 (H)
Lichenobactridium Diederich & Etayo 1995 (H)
Lichenodiplisiella S.Y. Kondr. & Kudra-tov 2002 (C)
Lichenohendersonia Calat. & Etayo 2001 (C)
Lichenopuccinia D. Hawksw. & Hafellner 1984 (H)
Lichenostella Calat. & Etayo 1999 (H)
Linkosia A. Hern. Gut. & B. Sutton 1997 (H)
Linochorella Syd. & P. Syd. 1912 (C)
Linodochium Höhn. 1909 (H)
Listeromyces Penz. & Sacc. 1901 (H)
Lobatopedis P.M. Kirk 1979 (H)
Loliomyces Maire 1937 (H)
Lomaantha Subram. 1954 (H)
Lomachashaka Subram. 1956 (H)
Luxuriomyces R.F. Castañeda 1988 (H)
Luzfridiella R.F. Castañeda & W.B. Kendr. 1991 (H)
Lylea Morgan-Jones 1975 (H)
Lysotheca Cif. 1962 (C)

Mackenziella Yanna & K.D. Hyde 2009 (H)
Macrodiplodia Sacc. 1884 (C)
Macrotrichum Grev. 1825 (H)
Mahabalella B. Sutton & S.D. Patil 1966 (H)
Manginella Bat. & H. Maia 1961 (C)
Mapletonia B. Sutton 1991 (C)
Margarinomyces Laxa 1930 (H)
Martinellisella V.G. Rao & Varghese 1977 (H)
Massalongina Bubák 1916 (C)
Massariothea Syd. 1939 (C)
Matsushimaea Subram. 1978 (H)
Matsushimiella R.F. Castañeda & Heredia 2001 (H)
Matsushimomyces V.G. Rao & Varghese 1979 (H)
Medusamyces G.L. Barron & Szijarto 1990 (H)
Megalodoichium Deighton 1960 (H)
Megaloseptoria Naumov 1925 (C)
Melanocephala S. Hughes 1979 (H)
Melanophoma Papendorf & J.W. du Toit 1967 (C)
Melophia Sacc. 1884 (C)
Menidoichium R.F. Castañeda & W.B. Kendr. 1990 (H)
Mercadinula M. Hernández-Restrepo et al. 2011 (H)
Mercadomyces J. Mena 1988 (H)
Merismella Syd. 1927 (C)
Metadiplodia Syd. 1937 (C)
Metazythia Petr. 1950 (C)
Metazythiopsis M. Morelet 1988 (C)
Microblastosporon Cif. 1930 (H)
Microclava F. Stevens 1917 (H)
Microdiscula Höhn. 1915 (C)
Microdothiorella C.A.A. Costa & Sousa da Câmara 1955 (C)
Microhendersonula Dias & Sousa da Câmara 1952 (C)
Microperella Höhn. 1909 (C)
Micropustulomyces R.W. Barreto 1995 (C)
Microtyle Speg. 1919 (C)
Microxyphiella Speg. 1918 (C)
Microxyphiopsis Bat. 1963 (C)
Milospium D. Hawksw. 1975 (H)
Mindoa Petr. 1949 (C)
Minimidochium B. Sutton 1969 (H)
Minteriella Heredia et al. 2013 (H)
Minutophoma D. Hawksw. 1981 (C)
Mirandina G. Arnaud ex Matsush. 1975 (H)
Miricataena Punith. & Spooner 2011 (H)
Mirimyces Nag Raj 1993 (C)
Mixtoconidium Etayo 1995 (C)
Mohgaonidium Singhai 1974 (C)
Monochaetiella E. Castell. 1943 (C)
Monochaetinula Muthumary et al. 1986 (C)
Monochaetopsis Pat. 1931 (H)
Monodia Breton & Faurel 1970 (C)
Monodidymaria U. Braun 1994 (H)
Monodisma Alcorn 1975 (H)

Monostichella Höhn. 1916 (C)
Moorella P. Rag. Rao & D. Rao 1964 (H)
Moralesia Urries 1956 (C)
Morosporium Renault & Roche 1898 (C)
Morrisographium M. Morelet 1968 (H)
Mucosetospora M. Morelet 1972 (C)
Muiaria Thaxt. 1914 (H)
Muiogone Thaxt. 1914 (H)
Muirella R. Sprague 1959 (H)
Murogenella Goos & E.F. Morris 1965 (H)
Mycelephas R.F. Castañeda 2009 (H)
Mycocentrodochium K. Matsush. & Mat-sush. 1996 (H)
Mycoënterolobium Goos 1970 (H)
Mycomyces Wyss-Chod. 1928 (H)
Mycopara Bat. & J.L. Bezerra 1960 (C)
Mycospraguea U. Braun & Rogerson 1993 (C)
Mycosticta Höhn. 1918 (C)
Mycosylva M.C. Tulloch 1973 (H)
Mycousteria M.L. Farr 1986 (C)
Myiocoprula Petr. 1955 (C)
Myriellina Höhn. 1915 (C)
Myrmecomyces Jouvenaz & Kimbr. 1991 (H)
Myrotheciastrum Abbas & B. Sutton 1988 (H)
Mystrosporiella Munjal & Kulshr. 1969 (H)
Myxoparaphysella Caball. 1941 (C)
Myxosporella Sacc. 1881 (C)
Myxosporidiella Negru 1960 (C)
Myxostomellina Syd. 1931 (C)
Myxothyriopsis Bat. & A.F. Vital 1956 (C)
Myxothyrium Bubák & Kabát 1915 (C)
Naemosphaera P. Karst. 1888 (C)
Naemosphaerella Höhn. 1923 (C)
Nagrajia R.F. Castañeda & W.B. Kendr. 1991 (C)
Nagrajomycetes Mel'nik 1984 (C)
Nakatopsis Whitton et al. 2001 (H)
Nanoschema B. Sutton 1980 (C)
Naothyrsium Bat. 1960 (C)
Necraphidium Cif. 1951 (H)
Nematogonum Desm. 1834 (H)
Nematographium Goid. 1935 (H)
Nemozythiella Höhn. 1925 (C)
Neoalpakesa Punith. 1981 (C)
Neoarbuscula B. Sutton 1983 (H)
Neobarclaya Sacc. 1899 (C)
Neodiplodina Petr. 1954 (C)
Neofuckelia Zeller & Goodd. 1935 (C)
Neoheteroceras Nag Raj 1993 (C)
Neojohnstonia B. Sutton 1983 (H)
Neoligniella Naumov 1951 (C)
Neomarssoniella U. Braun 1991 (C)
Neopeltis Syd. 1937 (C)
Neopericonia Kamal et al. 1983 (H)

Neophoma Petr. & Syd. 1927 (C)
Neoplaconema B. Sutton 1977 (C)
Neopodoconis Rifai 2008 (H)
Neospegazzinia Petr. & Syd. 1936 (C)
Neottiospora Desm. 1843 (C)
Neozythia Petr. 1958 (C)
Neta Shearer & J.L. Crane 1971 (H)
Nidulispora Nawawi & Kuthub. 1990 (H)
Nigrolentilocus R.F. Castañeda et al. 2001 (H)
Nigromacula Etayo 2002 (H)
Nigropuncta D. Hawksw. 1981 (C)
Nosophloea Fr. 1849 (C)
Nothospora Peyronel 1913 (H)
Novozymia W.P. Wu 2005 (H)
Nummospora E. Müll. & Shoemaker 1964 (C)
Nusia Subram. 1995 (H)
Nyctalospora E.F. Morris 1972 (H)
Nypaella K.D. Hyde & B. Sutton 1992 (C)
Obeliospora Nawawi & Kuthub. 1990 (H)
Obstipipilus B. Sutton 1968 (C)
Octopodotus Kohlm. & Volkm.-Kohlm. 2003 (C)
Odontodictyospora Mercado 1984 (H)
Oedothea Syd. 1930 (H)
Ojibwaya B. Sutton 1973 (H)
Olpitrichum G.F. Atk. 1894 (H)
Omega B. Sutton & Minter 1988 (C)
Oncopodium Sacc. 1904 (H)
Oncospora Kalchbr. 1880 (C)
Oncosporella P. Karst. 1887 (C)
Oncostroma Bat. & Marasas 1966 (C)
Onychophora W. Gams et al. 1984 (H)
Oosporidium Stautz 1931 (Y)
Oothyrium Syd. 1939 (C)
Ophiosira Petr. 1955 (C)
Orbimyces Linder 1944 (H)
Orphanocoela Nag Raj 1989 (C)
Ostracoderma Fr. 1825 (C)
Ostracodermidium Mukerji 1973 (H)
Oswaldina Rangel 1921 (C)
Ovadendron Sigler & J.W. Carmich. 1976 (H)
Paathramaya Subram. 1956 (H)
Pachycladina Marvanová 1987 (H)
Palawaniopsis Bat. et al. 1959 (C)
Paliphora Sivan. & B. Sutton 1985 (H)
Papilionospora V.G. Rao & B. Sutton 1976 (H)
Pappimyces B. Sutton & Hodges 1975 (H)
Paraaoria R.K. Verma & Kamal 1987 (C)
Paraarthrocladium Matsush. 1993 (H)
Parablastocatena Y.D. Zhang & X.G. Zhang 2012 (H)
Paraceratocladium R.F. Castañeda 1987 (H)
Parachionomyces Thaung 1979 (H)
Paracostantinella Subram. & Sudha 1989 (H)

Paracryptophiale Kuthub. & Nawawi 1994 (H)
Paracytospota Petr. 1925 (C)
Paradendryphiopsis M.B. Ellis 1976 (H)
Paradidymobotryum C.J.K. Wang & B. Sutton 1984 (H)
Paradiplodia Speg. ex Trotter 1931 (C)
Paradiscloridium Bhat & B. Sutton 1985 (H)
Paradiscula Petr. 1941 (C)
Paraëpicoccum Matsush. 1993 (H)
Parafulvia Kamal et al. 1983 (H)
Parahaplotrichum W.A. Baker & Partr. 2001 (H)
Paraharknessia Matsush. 2003 (H)
Parahyalotiopsis Nag Raj 1976 (C)
Paramassariothea Subram. & Muthumary 1979 (C)
Paramenisporopsis Matsush. 2003 (H)
Parapericonia M.B. Ellis 1976 (H)
Parapericoniella U. Braun et al. 2005 (H)
Paraphaeoisaria de Hoog & Morgan-Jones 1978 (H)
Parapithomyces Thaug 1976 (H)
Parapyricularia M.B. Ellis 1972 (H)
Pararobillarda Matsush. 1996 (C)
Parasphaeropsis Petr. 1953 (C)
Parastenella J.C. David 1991 (H)
Parastigmatellina Bat. & C.A.A. Costa 1959 (C)
Paratetraploa M.K.M. Wong & K.D. Hyde 2002 (H)
Paratomenticola M.B. Ellis 1976 (H)
Paratrichoconis Deighton & Piroz. 1972 (H)
Paraulocladium R.F. Castañeda 1986 (H)
Paspalomyces Linder 1933 (H)
Patriciomyces D. Hawksw. 2001 (H)
Pazschkeella Syd. & P. Syd. 1901 (C)
Peethasthabeeja P. Rag. Rao 1981 (H)
Pellionella (Sacc.) Sacc. 1902 (C)
Peltasterinostroma Punith. 1975 (C)
Peltasteropsis Bat. & H. Maia 1959 (C)
Peltistroma Henn. 1904 (C)
Peltistromella Höhn. 1907 (C)
Peltosoma Syd. 1925 (C)
Peltostromellina Bat. & A.F. Vital 1959 (C)
Peltostromopsis Bat. & A.F. Vital 1959 (C)
Penzigomyces Subram. 1992 (H)
Perelegamyces R.F. Castañeda & W.B. Kendr. 1990 (H)
Perizomella Syd. 1927 (C)
Pestalozziella Sacc. & Ellis ex Sacc. 1882 (C)
Petrakiopsis Subram. & K.R.C. Reddy 1968 (H)
Phacostroma Petr. 1955 (C)
Phacostromella Petr. 1955 (C)
Phaeoblastophora Partr. & Morgan-Jones 2002 (H)
Phaeocandelabrum R.F. Castañeda et al. 2009 (H)
Phaeodactylium Agnihothr. 1968 (H)
Phaeodiscula Cub. 1891 (C)
Phaeodomus Höhn. 1909 (C)
Phaeohiratsukaea Udagawa & Iwatsu 1990 (H)

Phaeoidiomyces Dorn.-Silva & Dianese 2004 (H)
Phaeolabrella Speg. 1912 (C)
Phaeomonilia R.F. Castañeda et al. 2007 (H)
Phaeomonostichella Keissl. ex Petr. 1941 (C)
Phaeophloeospora Crous & B. Sutton 1997 (C)
Phaeophomopsis Höhn. 1917 (C)
Phaeoschizotrichum Silva et al. 2015 (H)
Phaeosporobolus D. Hawksw. & Hafellner 1986 (H)
Phaeostalagmus W. Gams 1976 (H)
Phaeothyrium Petr. 1947 (C)
Phaeotrichoconis Subram. 1956 (H)
Phaeoxyphiella Bat. & Cif. 1963 (C)
Phanerococculus Cif. 1954 (C)
Phialoarthrobotryum Matsush. 1975 (H)
Phialogeniculata Matsush. 1971 (H)
Phialophaeoisaria Matsush. 1995 (H)
Phialosporostilbe Mercado & J. Mena 1985 (H)
Phialostele Deighton 1969 (H)
Phialotubus R.Y. Roy & Leelav. 1966 (H)
Phloeconis Fr. 1849 (H)
Phloeosporina Höhn. 1924 (C)
Phlyctaeniella Petr. 1922 (C)
Phomachora Petr. & Syd. 1925 (C)
Phomachorella Petr. 1947 (C)
Phomatospora Tak. Kobay. & K. Sasaki 1982 (C)
Phomyces Clem. 1931 (C)
Phragmoconidium G.F. Sepúlveda et al. 2009 (H)
Phragmopeltis Henn. 1904 (C)
Phragmospathula Subram. & N.G. Nair 1966 (H)
Phragmospathulella J. Mena & Mercado 1986 (H)
Phylloedium Fr. 1825 (H)
Phyllohendersonia Tassi 1902 (C)
Physalidiella Rulamort 1990 (H)
Physalidiopsis R.F. Castañeda & W.B. Kendr. 1990 (H)
Piggotia Berk. & Broome 1851 (C)
Pinatubo J.B. Manandhar & Mew 1996 (H)
Piperivora Siboe et al. 1999 (H)
Piricaudilium Hol.-Jech. 1988 (H)
Piricaudiopsis J. Mena & Mercado 1987 (H)
Pirisporea Faurel & Schotter 1966 (C)
Pirostomella Sacc. 1914 (H)
Pirozynskia Subram. 1972 (H)
Pithosira Petr. 1949 (H)
Pittostroma Kowalski & T.N. Sieber 1992 (C)
Placella Syd. 1938 (C)
Placodiplodia Bubák 1916 (C)
Placomelan Cif. 1962 (C)
Placonema (Sacc.) Petr. 1921 (C)
Placonemina Petr. 1921 (C)
Placosphaerina Maire 1917 (C)
Placotheca Syd. 1931 (C)
Placothyrium Bubák 1916 (C)

Plagiostigmella Petr. 1949 (C)
Plasia Sherwood 1981 (C)
Plectonaemella Höhn. 1915 (C)
Plectopeltis Syd. 1927 (C)
Plectophomopsis Petr. 1922 (C)
Plectopycnis Bat. & A.F. Vital 1959 (C)
Plectosira Petr. 1929 (C)
Plectronidiopsis Nag Raj 1979 (C)
Plectronidium Nag Raj 1977 (C)
Plenocatenulis Bat. & Cif. 1959 (C)
Plenophysa Syd. & P. Syd. 1920 (C)
Plenotrichaius Bat. & Valle 1961 (C)
Plenotrichopsis Bat. 1961 (C)
Plenotrichum Syd. 1927 (C)
Plenozythia Syd. & P. Syd. 1916 (C)
Pleocouturea G. Arnaud 1911 (C)
Plesiospora Drechsler 1971 (H)
Pleurocolla Petr. 1924 (H)
Pleurodesmospora Samson et al. 1979 (H)
Pleurodiscula Höhn. 1926 (C)
Pleurodomus Petr. 1934 (C)
Pleuropedium Marvanová & S.H. Iqbal 1973 (H)
Pleurophomopsis Petr. 1924 (C)
Pleuroplaconema Petr. 1923 (C)
Pleuroplacosphaeria Syd. 1928 (C)
Pleurostromella Petr. 1922 (C)
Pleurotheciopsis B. Sutton 1973 (H)
Pleurothyriella Petr. & Syd. 1925 (C)
Pleurovularia R. Kirschner & U. Braun 2002 (H)
Pocillopycnis Dyko & B. Sutton 1979 (C)
Podoplaconema Petr. 1921 (C)
Podosporiella Ellis & Everh. 1894 (H)
Podosporiopsis Jian Ma et al. 2016 (H)
Podosporium Schwein. 1832 (H)
Poikilosperma Bat. & J.L. Bezerra 1961 (C)
Polybulbophiale Goh & K.D. Hyde 1998 (H)
Polychaetella Speg. 1918 (C)
Polycladium Ingold 1959 (H)
Polydesmus Mont. 1845 (H)
Polyetron Bat. & Peres 1963 (C)
Polylobatispora Matsush. 1996 (H)
Polypaecilum G. Sm. 1961 (H)
Polyrostrata T.P. Devi & N. Mathur 2009 (C)
Polystomellomyces Bat. 1959 (C)
Polystratorictus Matsush. 1993 (H)
Polysynnema Constant. & Seifert 1988 (H)
Polytretophora Mercado 1983 (H)
Porocladium Descals 1976 (H)
Poropeltis Henn. 1904 (C)
Porophilomyces U. Braun 2000 (H)
Porosubramania Hol.-Jech. 1985 (H)
Porrectotheca Matsush. 1996 (C)

Prathoda Subram. 1956 (H)
Proboscispora Punith. 1984 (C)
Prosthemella Sacc. 1881 (H)
Protostegiomyces Bat. & A.F. Vital 1955 (C)
Protostroma Bat. 1957 (C)
Psammia Sacc. & M. Rousseau ex E. Bommer & M. Rousseau 1891 (C)
Pseudoacrodictys W.A. Baker & Morgan-Jones 2003 (H)
Pseudoanguillospora S.H. Iqbal 1974 (H)
Pseudoaristastoma Suj. Singh 1979 (C)
Pseudoasperisporium U. Braun 2000 (H)
Pseudobasidiospora Dyko & B. Sutton 1978 (C)
Pseudocanalisorium R.F. Castañeda & W.B. Kendr. 1991 (H)
Pseudocenangium P. Karst. 1886 (C)
Pseudochupia Kamal et al. 1984 (H)
Pseudoclathrosphaerina Voglmayr 1997 (H)
Pseudoconium Petr. 1969 (C)
Pseudocytoplacosphaeria Punith. & Spooner 2002 (C)
Pseudocytospora Petr. 1923 (C)
Pseudodichomera Höhn. 1918 (C)
Pseudodidymaria U. Braun 1993 (H)
Pseudodiplodia (P. Karst.) Sacc. 1884 (C)
Pseudodiscula Laubert 1911 (C)
Pseudofuscophialis Sivan. & H.S. Chang 1995 (H)
Pseudogaster Höhn. 1907 (H)
Pseudographiella E.F. Morris 1966 (H)
Pseudomeria G.L. Barron 1980 (H)
Pseudomicrodochium B. Sutton 1975 (H)
Pseudoneottiospora Faurel & Schotter 1965 (C)
Pseudopatellina Höhn. 1908 (C)
Pseudopeltistroma Katum. 1975 (C)
Pseudopetrakia M.B. Ellis 1971 (H)
Pseudophloeospora U. Braun 1993 (C)
Pseudophragmotrichum W.P. Wu et al. 1998 (C)
Pseudopolystigmina Murashk. 1928 (C)
Pseudoramularia Matsush. 1983 (H)
Pseudorhizopogon Kobayasi 1983 (C)
Pseudoschizothyra Punith. 1980 (C)
Pseudosigmoidea K. Ando & N. Nakam. 2000 (H)
Pseudostegia Bubák 1906 (C)
Pseudothyrium Höhn. 1927 (C)
Pseudotorula Subram. 1958 (H)
Pseudotracylla B. Sutton & Hodges 1976 (C)
Pseudotrigoconis W.A. Baker & Morgan-Jones 2001 (H)
Pseudozythia Höhn. 1902 (C)
Pterulopsis Wakef. & Hansf. 1943 (H)
Pterygosporopsis P.M. Kirk 1983 (H)
Puccinospora Speg. 1886 (C)
Pulchromyces Hennebert 1973 (H)
Pullospora Faurel & Schotter 1965 (C)
Pulvinella A.W. Ramaley 2001 (H)
Punctillina Toro 1934 (C)
Pycnidioarxiella Punith. & N.D. Sharma 1980 (C)

Pycnidiopeltis Bat. & C.A.A. Costa 1959 (C)
Pycnis Bref. 1881 (C)
Pycnodactylus Bat. et al. 1967 (C)
Pycnodallia Kohlm. & Volkm.-Kohlm. 2001 (C)
Pycnoharknessia Matsush. 1996 (C)
Pycnomma Syd. 1924 (C)
Pycnomoreletia Rulamort 1990 (C)
Pycnoseynesia Kuntze 1898 (C)
Pycnothera N.D. Sharma & G.P. Agarwal 1974 (C)
Pycnothyriella Bat. 1952 (C)
Pycnothyrium Died. 1913 (C)
Pyramidospora Sv. Nilsson 1962 (H)
Pyrenyllum Clem. 1909 (C)
Pyrgostroma Petr. 1951 (C)
Pyripnomyces Cavalc. 1972 (C)
Quadracaea Lunghini et al. 1996 (H)
Quadricladium Nawawi & Kuthub. 1989 (H)
Quasidiscus B. Sutton 1991 (C)
Quasiphloeospora B. Sutton et al. 1996 (H)
Queenslandia Bat. & H. Maia 1959 (C)
Quezelia Faurel & Schotter 1965 (C)
Radiatispora Matsush. 1995 (H)
Raizadenia S.L. Srivast. 1981 (H)
Ramakrishnanella Kamat & Ullasa ex Ullasa 1970 (C)
Ramicapitulum Whitton et al. 2012 (H)
Ramicephala Voglmayr & G. Delgado 2003 (H)
Ramiphialis F.R. Barbosa et al. 2020 (H)
Ramoconidiifera B. Sutton et al. 1996 (H)
Redbia Deighton & Piroz. 1972 (H)
Refractohilum D. Hawksw. 1977 (H)
Repetoblastiella R.F. Castañeda et al. 2010 (H)
Retroconis de Hoog & Bat. Vegte 1989 (H)
Rhabdoclema Syd. 1939 (C)
Rhabdogloeopsis Petr. 1925 (C)
Rhabdostromella Höhn. 1915 (C)
Rhabdostromina Died. 1921 (C)
Rhexoacrodictys W.A. Baker & Morgan-Jones 2002 (H)
Rhexoampullifera P.M. Kirk 1982 (H)
Rhexoprolifer Matsush. 1996 (H)
Rhinotrichella G. Arnaud ex de Hoog 1977 (H)
Rhipidocephalum Trail 1888 (H)
Rhizosphaerina B. Sutton 1986 (C)
Rhodesia Grove 1937 (C)
Rhodesiopsis B. Sutton & R. Campb. 1979 (C)
Rhodosticta Woron. 1911 (C)
Rhodothallus Bat. & Cif. 1959 (H)
Rhombostilbella Zimm. 1902 (H)
Rhopalocladium Schroers et al. 1999 (H)
Rhynchodiplodia Briosi & Farneti 1906 (C)
Rhynchomyces Willk. 1866 (H)
Rhynchoseptoria Unamuno 1940 (C)
Rhynchosporina Arx 1957 (H)

Riclaretia Peyronel 1915 (H)
Rileya A. Funk 1979 (C)
Robakia Petr. 1952 (C)
Rogergoosiella A. Hern. et al. 1996 (H)
Roscoepoundia Kuntze 1898 (C)
Rosulomyces S. Marchand & Cabral 1976 (H)
Rota Bat. et al. 1959 (C)
Ruggieria Cif. & Montemart. 1958 (C)
Sadasivania Subram. 1957 (H)
Sanjuanomyces R.F. Castañeda & W.B. Kendr. 1991 (H)
Santapauinda Subram. 1995 (H)
Saprophragma K.B. Deshp. & K.S. Deshp. 1966 (H)
Sarcinosporon D.S. King & S.C. Jong 1975 (H)
Sarcophoma Höhn. 1916 (C)
Sarophorum Syd. & P. Syd. 1916 (H)
Sativumoides S.C. Ren et al. 2012 (H)
Scaphidium Clem. 1901 (C)
Scenomyces F. Stevens 1927 (H)
Sceptrifera Deighton 1965 (H)
Schizothyra Bat. & C.A.A. Costa 1957 (C)
Schizothyrella Thüm. 1880 (C)
Schizothyropsis Bat. & A.F. Vital 1960 (C)
Schizotrichum McAlpine 1903 (H)
Schroeteria G. Winter 1881 (H)
Schwarzmannia Pisareva 1968 (C)
Scirrhophoma Petr. 1941 (C)
Sclerococcum Fr. 1825 (H)
Sclerographiopsis Deighton 1973 (H)
Sclerographium Berk. 1854 (H)
Scleromeris Syd. 1926 (C)
Sclerophoma Höhn. 1909 (C)
Scleropycnis Syd. & P. Syd. 1911 (C)
Sclerotiella A.K. Sarbhoy & A. Sarbhoy 1975 (H)
Sclerozythia Petch 1937 (C)
Scolecobasidiella M.B. Ellis 1971 (H)
Scolecobeltrania Iturr. et al. 2013 (H)
Scolecodoichium K. Matsush. & Matsush. 1996 (H)
Scolecosporiella Petr. 1921 (C)
Scolecotheca Söchting & B. Sutton 1997 (C)
Scolecozythia Curzi 1927 (C)
Scoliotidium Bat. & Cavalc. 1963 (C)
Scopaphoma Dearn. & House 1925 (C)
Scopulariella Gjaerum 1971 (H)
Scothelius Bat. et al. 1965 (C)
Scutisporus K. Ando & Tubaki 1985 (H)
Scutopeltis Bat. & H. Maia 1957 (C)
Scutopycnis Bat. 1957 (C)
Seimatosporiopsis B. Sutton et al. 1972 (C)
Selenosira Petr. 1957 (C)
Selenosporopsis R.F. Castañeda & W.B. Kendr. 1991 (H)
Semipseudocercospora J.M. Yen 1983 (H)
Septocytella Syd. 1929 (C)

Septogloeum Sacc. 1880 (C)
Septoidium G. Arnaud 1921 (H)
Septomyxella (Höhn.) Höhn. 1923 (C)
Septopatella Petr. 1925 (C)
Septosporiopsis W.A. Baker & Morgan-Jones 2009 (H)
Septosporium Corda 1831 (H)
Septotrullula Höhn. 1902 (H)
Sessiliospora D. Hawksw. 1979 (H)
Setolibertella Punith. & Spooner 1999 (C)
Setophiale Matsush. 1995 (H)
Setosporella Mustafa & Abdul-Wahid 1989 (H)
Seychellomyces Matsush. 1981 (H)
Seynesiopsis Henn. 1904 (C)
Shawiella Hansf. 1957 (C)
Sheariella Petr. 1952 (C)
Sheathnema Dubey & Moonambeth 2014 (H)*
Shivomyces Hosag. 2004 (H)
Siamia V. Robert et al. 2000 (H)
Sigmatomyces Sacc. & P. Syd. 1913 (H)
Simmonsella J.L. Crane & A.N. Mill. 2016 (H)
Sirexipula Bubák 1907 (C)
Sirocyphis Clem. 1909 (C)
Sirodochiella Höhn. 1925 (H)
Sirogloea Petr. 1923 (C)
Siroligniella Naumov 1926 (C)
Sirophoma Höhn. 1917 (C)
Siroplocodium Petr. 1940 (C)
Siropleura Petr. 1934 (C)
Siroscyphellina Petr. 1923 (C)
Sirosperma Syd. & P. Syd. 1916 (C)
Sirosphaera Syd. & P. Syd. 1913 (C)
Sirosporonaemella Naumov 1951 (C)
Sirothecium P. Karst. 1887 (C)
Sirothyriella Höhn. 1910 (C)
Sirothyrium Syd. & P. Syd. 1916 (C)
Sirozythia Höhn. 1904 (C)
Sirozythiella Höhn. 1909 (C)
Sitochora H.B.P. Upadhyay 1964 (C)
Slimacomycetes Minter 1986 (H)
Soloacrospora W.B. Kendr. & R.F. Castañeda 1991 (H)
Solosympodiella Matsush. 1971 (H)
Solotermiospora Matsush. 1996 (H)
Spermatoloncha Speg. 1908 (H)
Spermatoloncha Speg. 1908 (H)
Spermochaetella Cif. 1954 (C)
Spermosporella Deighton 1969 (H)
Sphaeridium Fresen. 1852 (H)
Sphaeriosstromella Bubák 1916 (C)
Sphaeriothyrium Bubák 1916 (C)
Sphaeromma H.B.P. Upadhyay 1964 (C)
Sphaeronema Fr. 1815 (C)

Sphaerophoma Petr. 1924 (C)
Sphaerulomyces Marvanová 1977 (H)
Sphondylocephalum Stalpers 1974 (H)
Spicularia Pers. 1822 (H)
Spilodochium Syd. 1927 (H)
Spinulospora Deighton 1973 (H)
Spiralum J.L. Mulder 1975 (H)
Spiropes Cif. 1955 (H)
Spondylocladiella Linder 1934 (H)
Spondylocladiopsis M.B. Ellis 1963 (H)
Sporhaplus H.B.P. Upadhyay 1964 (C)
Sporidesmiopsis Subram. & Bhat 1989 (H)
Sporoglena Sacc. 1894 (H)
Sporophiala P.Rag. Rao 1970 (H)
Sporophora Luteraan 1952 (H)
Stachybotryella Ellis & Barthol. 1902 (H)
Stachybotryna Tubaki & T. Yokoy. 1971 (H)
Stagonopatella Petr. 1927 (C)
Stagonopsis Sacc. 1884 (C)
Stagonosporina Tassi 1902 (C)
Stagonostromella Petr. & Syd. 1927 (C)
Staheliella Emden 1974 (H)
Stalagmochaetia Cif. & Bat. 1963 (C)
Stanhughesiella R.F. Castañeda & D.W. Li 2017 (H)
Stauronema (Sacc.) Syd. et al. 1916 (C)
Stauronematopsis Abbas et al. 2002 (C)
Staurophoma Höhn. 1907 (C)
Stegonsporiopsis Van Warmelo & B. Sutton 1981 (C)
Stellomyces Morgan-Jones et al. 1987 (H)
Stellopeltis Bat. & A.F. Vital 1959 (C)
Stellospora Alcorn & B. Sutton 1984 (H)
Stellothyriella Bat. & Cif. 1959 (C)
Stemphyliomma Sacc. & Traverso 1911 (H)
Stenellopsis B. Huguenin 1966 (H)
Stenocephalopsis Chamuris & C.J.K. Wang 1998 (H)
Stenoccladiella Marvanová & Descals 1987 (H)
Stenospora Deighton 1969 (H)
Stephembruneria R.F. Castañeda 1988 (H)
Stevensonula Petr. 1952 (C)
Stichospora Petr. 1927 (C)
Stictopatella Höhn. 1918 (C)
Stictosepta Petr. 1964 (C)
Stigmatellina Bat. & H. Maia 1960 (C)
Stigmella Lév. 1842 (C)
Stigmina Sacc. 1980 (H)
Stigmopeltis Syd. 1927 (C)
Stilbellula Boedijn 1951 (H)
Stilbodendron Syd. & P. Syd. 1916 (H)
Stilbophoma Petr. 1942 (C)
Stilbothamnium Henn. 1896 (H)
Strasseria Bres. & Sacc. 1902 (C)
Strasseriosis B. Sutton & Tak. Kobay. 1970 (C)

Stratiphoromyces Goh & K.D. Hyde 1998 (H)
Striosphaeropsis Verkley & Aa 1997 (C)
Stromatocrea W.B. Cooke 1952 (H)
Stromatopogon Zahlbr. 1897 (C)
Stromatopycnis A.F. Vital 1956 (C)
Stromatostysanus Höhn. 1919 (H)
Strongylothallus Bat. & Cif. 1959 (H)
Stygiomyces Coppins & S.Y. Kondr. 1995 (C)
Stylaspergillus B. Sutton et al. 1982 (H)
Subhysteropycnis Wedin & Hafellner 1998 (C)
Subicularium M.L. Farr & Goos 1989 (H)
Subramania D. Rao & P.Rag. Rao 1964 (H)
Subramanianospora Narayanan et al. 2003 (H)
Subulispora Tubaki 1971 (H)
Suttoniella S. Ahmad 1961 (C)
Suttonina H.C. Evans 1984 (C)
Syamithabeeja Subram. & Natarajan 1976 (H)
Sylviacollaea Cif. 1963 (C)
Symphysos Bat. & Cavalc. 1967 (C)
Sympodiella W.B. Kendr. 1958 (H)
Sympodiocladium Descals 1982 (H)
Sympodioclathra Voglmayr 1997 (H)
Sympodioplanus R.C. Sinclair & Boshoff 1997 (H)
Sympodiosynnema J.W. Xia & X.G. Zhang 2016 (H)
Synchronoblastia Uecker & F.L. Caruso 1988 (C)
Syncladium Rabenh. 1859 (C)
Synnemacrodictys W.A. Baker & Morgan-Jones 2009 (H)
Synnemaseimatoides K. Matsush. & Matsush. 1996 (H)
Synnematium Speare 1920 (H)
Synnematomyces Kobayasi 1981 (H)
Synostomina Petr. 1949 (C)
Systremmopsis Petr. 1923 (H)
Taeniolina M.B. Ellis 1976 (H)
Talpapellis Alstrup & M.S. Cole 1998 (H)
Tandonea M.D. Mehrotra 1991 (C)
Tarsodisporus Bat. & A.A. Silva 1965 (C)
Tandonella S.S. Prasad & R.A.B. Verma 1970 (H)
Tectacervulus A.W. Ramaley 1992 (C)
Telligia Hendr. 1948 (H)
Temerariomyces B. Sutton 1993 (H)
Teratosperma Syd. & P. Syd. 1909 (H)
Termitaria Thaxt. 1920 (H)
Termitariopsis M. Blackw et al. 1980 (H)
Tetrabrachium Nawawi & Kuthub. 1987 (H)
Tetrabrunneospora Dyko 1978 (H)
Tetracoccusporium Szabó 1905 (H)
Tetracrium Henn. 1902 (H)
Tetrameronycha Speg. ex W. Rossi & M. Blackw. 1990 (H)
Tetranacriella Kohlm. & Volkm.-Kohlm. 2001 (C)
Tetranacrium H.J. Huds. & B. Sutton 1964 (C)
Tetraposporium S. Hughes 1951 (H)
Textotheca Matsush. 1996 (C)

Thallospora L.S. Olive 1948 (H)
Thaptospora B. Sutton & Pascoe 1987 (C)
Tharoopama Subram. 1956 (H)
Thirumalacharia Rathaiah 1981 (H)
Tholomyces Matsush. 2003 (C)
Thoracella Oudem. 1900 (C)
Thrinacospora Petr. 1948 (C)
Thyriostromella Bat. & C.A.A. Costa 1959 (C)
Thyrostromella Höhn. 1919 (H)
Thyrsidiella Höhn. ex Höhn. 1909 (C)
Thyrsidina Höhn. 1905 (C)
Tiarosporellivora Punith. 1981 (C)
Ticogloea G. Weber et al. 1994 (H)
Ticosynnema R.F. Castañeda et al. 2013 (H)*
Tilakiopsis V.G. Rao 1994 (H)
Titaea Sacc. 1876 (H)
Titaeopsis B. Sutton & Deighton 1984 (H)
Titaeospora Bubák 1916 (C)
Tomenticola Deighton 1969 (H)
Tompetchia Subram. 1985 (H)
Torulopsiella Bender 1932 (H)
Toxosporiella B. Sutton 1986 (C)
Toxosporiopsis B. Sutton & Sellar 1966 (C)
Toxosporium Vuill. 1896 (H)
Trematophoma Petr. 1924 (C)
Tremellidium Petr. 1927 (C)
Tretendophragmia Subram. 1995 (H)
Tretocephala Subram. 1995 (H)
Tretolylea Cantillo et al. 2015 (H)
Tretophragmia Subram. & Natarajan 1974 (H)
Tretospeira Piroz. 1972 (H)
Tretospora M.B. Ellis 1976 (H)
Tretovularia Deighton 1984 (H)
Tribolospora D.A. Reid 1966 (C)
Tricellula Beverw. 1954 (H)
Trichaegum Corda 1837 (H)
Trichobolbus Bat. 1964 (C)
Trichobotrys Penz. & Sacc. 1901 (H)
Trichoconiella B.L. Jain 1976 (H)
Trichoconis Clem. 1909 (H)
Trichodiscula Vouaux 1910 (C)
Trichodochium Syd. 1927 (H)
Trichomatoclava G.F. Sepúlveda et al. 2009 (H)
Trichomatomyces Dorn.-Silva & Dianese 2004 (H)
Trichomatosphaera Pereira-Carv. et al. 2009 (H)
Trichopeltulum Speg. 1889 (C)
Trichoseptoria Cavara 1892 (C)
Trichosporiella Kamyschko 1960 (H)
Trichosporodochium Dorn.-Silva & Dianese 2004 (H)
Trichotheca P. Karst. 1887 (H)
Tricladiella K. Ando & Tubaki 1984 (H)
Tricladiopsis Descals 1982 (H)

Tricladiospora Nawawi & Kuthub. 1988 (H)
Tricornispora Bonar 1967 (H)
Trifurcospora K. Ando & Tubaki 1988 (H)
Triglyphium Fresen. 1852 (H)
Trigonosporium Tassi 1900 (C)
Tripoconidium Subram. 1978 (H)
Triposporina Höhn. 1912 (H)
Triramulispora Matsush. 1975 (H)
Triscelophorus Ingold 1944 (H)
Triscelosporium Nawawi & Kuthub. 1987 (H)
Trisulcosporium H.J. Huds. & B. Sutton 1964 (H)
Troposporium Harkn. 1884 (H)
Troposporopsis Whitton et al. 1999 (H)
Tryblidiopycnis Höhn. 1918 (C)
Tryssglobulus B. Sutton & Pascoe 1987 (H)
Tuberculariopsis Höhn. 1909 (H)
Tuberculispora Deighton & Piroz. 1972 (H)
Tulipispora Révay & Gönczöl 2009 (H)
Tunicago B. Sutton & Pollack 1977 (C)
Turturconchata J.L. Chen et al. 1999 (H)
Tympanosporium W. Gams 1974 (H)
Uberispora Piroz. & Hodges 1973 (H)
Ubrizsya Negru 1965 (C)
Ulocoryphus Michaelides et al. 1982 (H)
Umbellidion B. Sutton & Hodges 1975 (H)
Uniseta Ciccar. 1948 (C)
Urohendersonia Speg. 1902 (C)
Urohendersoniella Petr. 1955 (C)
Uvarispora Goos & Piroz. 1975 (H)
Vagnia D. Hawksw. & Miądl. 1997 (C)
Vanakripa Bhat et al. 1993 (H)
Vanbeverwijkia Agnihothr. 1961 (H)
Vanderystiella Henn. 1908 (C)
Vanterpoolia A. Funk 1982 (H)
Vasudevella Chona et al. 1957 (C)
Velutipila D. Hawksw. 1987 (H)
Ventrographium H.P. Upadhyay et al. 1986 (H)
Venustocephala Matsush. 1995 (H)
Venustosynnema R.F. Castañeda & W.B. Kendr. 1990 (H)
Veracruzomyces Mercado et al. 2002 (H)
Veramycella G. Delgado 2009 (H)
Veramyces Matsush. 1993 (H)
Verdipulvinus A.W. Ramaley 1999 (H)
Veronaella Subram. & K.R.C. Reddy 1975 (C)
Veronidia Negru 1964 (C)
Verrucariella S. Ahmad 1967 (C)
Verrucophragmia Crous et al. 1994 (H)
Verticicladius Matsush. 1993 (H)
Vesicladiella Crous & M.J. Wingf. 1994 (H)
Vesiculohyphomyces Armando et al. 2009 (H)
Vestigium Piroz. & Shoemaker 1972 (C)
Virgariella S. Hughes 1953 (H)

Viscomacula R. Sprague 1951 (H)
Vittalia Gaws & Bhat 2007 (H)
Vizellopsidites M.A. Khan et al. 2018 (C)
Vouauxiella Petr. & Syd. 1927 (C)
Waihonghopes Yanna & K.D. Hyde 2002 (H)
Wardinella Bat. & Peres 1960 (C)
Websteromyces W.A. Baker & Partr. 2000 (H)
Weissia Bat. & M.P. Herrera 1964 (C)
Weufia Bhat & B. Sutton 1985 (H)
Wojnowicia Sacc. 1899 (C)
Xenidiocercus Nag Raj 1993 (C)
Xenochora Petr. 1948 (C)
Xenodomus Petr. 1922 (C)
Xenoheteroconium Bhat et al. 1993 (H)
Xenokylindria DiCosmo et al. 1983 (H)
Xenopeltis Syd. & P. Syd. 1919 (C)
Xenoplaca Petr. 1949 (H)
Xenostroma Höhn. 1915 (C)
Xeroconium D. Hawksw. 1981 (C)
Xiambola Minter & Hol.-Jech. 1981 (H)
Xiphomyces Syd. & P. Syd. 1916 (H)
Xiuguozhangia K. Zhang et al. 2014 (H)
Xylochia B. Sutton 1983 (H)
Xyloglyphis Clem. 1909 (C)
Xylohypha (Fr.) E.W. Mason 1960 (H)
Xylohyphopsis W.A. Baker & Partr. 2000 (H)
Yalomyces Nag Raj 1993 (C)
Yinmingella Goh et al. 1999 (H)
Yoshinagaia Henn. 1904 (C)
Ypsilomyces D.A.C. Almeida & Gusmão 2014 (H)*
Yuccamyces Gour et al. 1979 (H)
Zakatoshia B. Sutton 1973 (H)
Zebrospora McKenzie 1991 (H)
Zelandiocoela Nag Raj 1993 (C)
Zelodactylaria A.C. Cruz et al. 2012 (H)
Zelopelta B. Sutton & R.D. Gaur 1984 (C)
Zelosatchmopsis Nag Raj 1991 (C)
Zelotriadelphia R.F. Castañeda et al. 2005 (H)
Zetesimomyces Nag Raj 1988 (C)
Zevadia J.C. David & D. Hawksw. 1995 (H)
Zilingia Petr. 1934 (C)
Zinzipegasa Nag Raj 1993 (C)
Zopheromyces B. Sutton & Hodges 1977 (H)
Zunura Nag Raj 1993 (C)
Zygosporium Mont. 1842 (H)
Zythia Fr. 1849 (C)
Zyxiphora B. Sutton 1981 (H)

Phylum BASIDIOMYCOTA R.T. Moore
Subphylum AGARICOMYCOTINA Doweld
Class Agaricomycetes Doweld
Agaricales Underw.

- Agaricaceae** Chevall.
Coccobotrys Boud. & Pat. 1900 (H)
- Fistulinaceae** Lotsy
Confistulina Stalpers 1983 (H)
- Lyophyllaceae** Jülich
Termitosphaera Cif. 1935 (H)
- Mycenaceae** Overeem
Decapitatus Redhead & Seifert 2000 (H)
- Niaceae** Jülich
Peyronelina P.J. Fisher et al. 1976 (H)
- Physalacriaceae** Corner
Mycotribulus Nag Raj & W.B. Kendr. 1970 (C)
- Pleurotaceae** Kühner
Antromyopsis Pat. & Trab. 1897 et al. (H)
Nematoctonus Drechsler 1941 et al. (H)
- Psathyrellaceae** Vilgalys et al.
Hormographiella Guarro & Gené 1992 (H)
Rhacophyllus Berk. & Broome 1871 (H)
- Tricholomataceae** R. Heim ex Pouzar
Moniliophthora H.C. Evans et al. 1978 (H)
Nothoclavulina Singer 1970 (H)
Tilachlidiopsis Keissl. 192 (H)
Tilachlidiopsis Keissl. 1924 (H)
Ugola Adans. 1763 (H)
- Agaricales** genera *incertae sedis*
Aleurocystis Lloyd ex G. Cunn. 1956 (C)
Disporotrichum Stalpers 1984
Fibulochlamys A.I. Romero & Cabral 1989 (H)
Tricladiomyces Nawawi 1985 (H)
- Atheliales** Jülich
Atheliaceae Jülich
Digitatispora Doguet 1962 (H)*
Fibularhizoctonia G.C. Adams & Kropp 1996 (H)
Taeniospora Marvanová 1977 (H)
- Auriculariales** J. Schröt.
Exidiaceae R.T. Moore
Ovipoculum Zhu L. Yang & R. Kirschner 2010 (H)
- Auriculariales** genera *incertae sedis*
Disporotrichum Stalpers 1984 (H)
Oliveorhiza P. Roberts 1998 (H)

Porpopycnis R. Kirschner 2012 (C)

Cantharellales Gäum

Botryobasidiaceae Jülich

Haplotrichum Link 1824 (H)

Ceratobasidiaceae G.W. Martin

Acanthellorhiza P. Roberts 1999 (H)

Ceratorhiza R.T. Moore 1987 (H)

Rhizoctonia DC. 1805 (H)

Hydnaceae Chevall.

Burgella Diederich & Lawrey 2007 (H)

Burgoa Goid. 1938 (H)

Ingoldiella D.E. Shaw 1972 (H)

Osteomorpha G. Arnaud ex Watling & W.B. Kendr. 1979 (H)

Oliveoniaceae P. Roberts 1998

Oliveorhiza P. Roberts 1998 (H)

Tulasnellaceae Juel

Epulorhiza R.T. Moore 1987 (H)

Cantharellales genera *incertae sedis*

Minimedusa Weresub & P.M. LeClair 1971 (H)

Corticiales K.H. Larss.

Corticiaceae Herter

Basidiodesertica Maharachch. et al. 2020 (H)

Chrysorhiza T.F. Andersen & Stalpers 1996 (H)

Erythricium J. Erikss. & Hjortstam 1970 (H)

Giulia Tassi 1904 (C)

Marchandiomyces Dieder. & D. Hawksw. 1990 (H)

Michenera Berk. & M.A. Curtis 1868 (H)

Necator Masee 1898 (H)

Tretopileus B.O. Dodge 1946 (H)

Hymenochaetales Oberw.

Schizoporaceae Jülich

Echinodia Pat. 1918 (H)

Hymenochaetales genus *incertae sedis*

Caeruleomyces Stalpers 2000 (H)

Polyporales Gäum.

Fomitopsidaceae Jülich

Ptychogaster Corda 1838 (H)

Ganodermataceae Donk

Thermophymatospora Udagawa et al. 1986 (H)

Hyphodermataceae Jülich

Aegerita Pers. 1801 (H)
Aegeritina Jülich 1984 (H)

Meruliaceae P. Karst.
Bornetina L. Mangin & Viala 1903 (H)

Phanerochaetaceae Jülich
Erythricium J. Erikss. & Hjortstam 1970 (H)
Sporotrichum Link 1809 (H)

Polyporaceae Fr. ex Corda
Digitellus Paulet 1791 (H)
Mycelithe Gasp. 1841 (C)
Pachyma Fr. 1822 (H)

Russulales Kreisel ex P.M. Kirk et al.
Bondarzewiaceae Kotl. & Pouzar
Spiniger Stalpers 1974 (H)

Peniophoraceae Lotsy
Licrostroma P.A. Lemke 1964 (H)^{#*}

Stereaceae Pilát
Matula Massee 1888 (H)

Sebacinales M. Weiss et al.
Sebacinaceae K. Wells & Oberw.
Chaetospermum Sacc. 1892 (C)
Craterocolla Bref. 1888
Ditangium P. Karst. 1867 (H)
Flahaultiella Seifert 2009 (H)
Opadorhiza T.F. Andersen & R.T. Moore 1996 (H)
Piriformospora Sav. Verma et al. 1998 (H)

Thelephorales Corner ex Oberw.
Thelephoraceae Chevall.
Parahaplotrichum W.A. Baker & Partr. 2001 (H)

Agaricomycetes genera *incertae sedis*
Akenomyces G. Arnaud ex D. Hornby 1984 (H)
Arthrodochium R.F. Castañeda & W.B. Kendr. 1990 (H)
Arualis Katz 1980 (H)
Bartheletia G. Arnaud ex Scheuer et al. 2008 (H)
Cenangiomycetes Dyko & B. Sutton 1979 (H)
Cruciger R. Kirschner & Oberw. 1999 (H)
Dendrosporomyces Nawawi et al. 1977 (H)
Ellula Nag Raj 1980 (C)
Fibulocoela Nag Raj 1978 (C)
Fibulotaeniella Marvanová & Bärl. 1988 (H)
Geotrichopsis Tzean & Estey 1991 (H)
Gloeosynnema Seifert & G. Okada 1988 (H)
Glomerulomyces A.I. Romero & S.E. López 1989 (H)

Glutinoaggar Sivan. & Watling 1980 (H)
Myriococcum Fr. 1823 (H)
Nyctalina G. Arnaud 1952 (H)
Pagidospora Drechsler 1960 (H)
Pycnovellomyces R.F. Castañeda 1987 (C)
Riessia Fresen. 1852 (H)
Riessiella Jülich 1985 (H)
Titaeella G. Arnaud ex K. Ando & Tubaki 1985 (H)
Tricladomyces Nawawi 1985 (H)

Class *Dacrymycetes* Doweld

***Dacrymycetales* Henn.**

***Dacrymycetaceae* J. Schröt.**

Cerinosterus R.T. Moore 1987 (H)
Dacryoscyphus R. Kirschner & Zhu L. Yang 2005 (H)

Class *Tremellomycetes* Hibbett et al.

***Cystofilobasidiales* Fell et al.**

***Cystofilobasidiaceae* K. Wells & Bandoni**

Guehomyces Fell & Scorzetti 2004 (H)
Itersonia Derx 1948 (H)
Rhodozyma Phaff et al. 1972 (H)

***Mrakiaceae* X.Z. Liu et al.**

Mrakiella Margesin & Fell 2008 (H)
Phaffia M.W. Mill. et al. 1976 (Y)
Tausonia Babeva 1998 (H)
Udeniomyces Nakase & Takem. 1992 (Y)

***Filobasidiales* Jülich**

***Filobasidiaceae* L.S. Olive**

Cryptococcus Vuill. 1901 (Y)

***Tremellales* Fr.**

***Cryptococcaceae* Kütz. ex Castell. & Chalm.**

Teunia Q.M. Wang & F.Y. Bai 2020 (Y)

***Cuniculitremaeae* J.P. Samp. et al.**

Fellomyces Y. Yamada & I. Banno 1984 (Y)
Kockovaella Nakase et al. 1991 (Y)
Sterigmatosporidium G. Kraep. & U. Schulze 1983 (Y)
Tremellina Bandoni 1986 (H)

***Hyaloriaceae* Lindau**

Helicomysa R. Kirschner & Chee J. Chen 2004 (H)

***Tremellaceae* Fr.**

Anastomyces W.P. Wu et al. 1997 (H)
Bullera Derx 1930 (Yeast)
Cryptococcus Vuill. 1901 (Y)
Hormomyces Bonord. 1851 (H)
Biatoropsis Räsänen 1934 with *hormomyces*-like asexual morph (H)*

Tsuchiyaea Y. Yamada et al. 1988 (H)

Trichosporonaceae Nann.

Aegeritella Bałazy & J. Wiśn. 1974 (H)

Trichosporon Behrend 1890 (Y)

Tritirachium Limber 1940 (H)

Tremellales genera *incertae sedis*

Derxomyces F.Y. Bai & Q.M. Wang 2008 (Y)

Hannaella F.Y. Bai & Q.M. Wang 2008 (Y)

Moniliella Stolk & Dakin 1966 (H)

Tremellomycetes genera *incertae sedis*

Heteromyxophaga P. Roberts 1997 (Y)

Moniliella Stolk & Dakin 1966 (H)

Trichosporonoides Haskins & J.F.T. Spencer 1967 (H)

AGARICOMYCOTINA genus *incertae sedis*

Microstella K. Ando & Tubaki 1984 (H)

Subphylum PUCCINIOMYCOTINA R. Bauer et al.

Class Agaricostilbomycetes R. Bauer et al.

Agaricostilbales Oberw. & R. Bauer

Agaricostilbaceae Oberw. & R. Bauer

Agaricostilbum J. Wright 1970 (H)

Bensingtonia Ingold 1986 (Y)

Sterigmatomyces Fell 1966 (Y)

Chionosphaeraceae Oberw. & Bandoni

Ballistosporomyces Nakase et al. 1989 (Y)

Boekhoutia Q.M. Wang & F.Y. Bai 2020 (Y)

Kurtzmanomyces Y. Yamada et al. 1989 (Y)

Mycogloea L.S.Olive 1950 (Y)

Jianyuniaceae Q.M. Wang & F.Y. Bai

Pseudosterigmatospora Q.M. Wang & F.Y. Bai 2020 (Y)

Sterigmatospora Q.M. Wang & F.Y. Bai 2020 (Y)

Class Atractiellomycetes R. Bauer et al.

Atractiellales Oberw. & Bandoni

Phleogenaceae Gäum.

Atractiella Sacc. 1886 (H)

Basidiopycnides J. Reid et al. 2008 (H)

Saccoblastiaceae Jülich

Infundibura Nag Raj & W.B. Kendr. 1981 (H)

Atractiellales genera *incertae sedis*

Atractogloea Oberw. & Bandoni 1982 (H)

Hobsonia Berk. ex Masee 1891 (H)

Leucogloea R. Kirschner 2004 (H)

Tricladomyces Nawawi 1985 (H)

Pachnocybales R. Bauer et al.
Pachnocybaceae Oberw. & R. Bauer
Pachnocybe Berk. 1836 (H)

Class *Classiculomycetes* R. Bauer et al.
Classiculales R. Bauer et al.
Classiculaceae Bauer et al.
Jaculispora H.J. Huds. & Ingold 1960 (H)
Naiadella Marvanová & Bandoni 1987 (H)

Class *Cryptomycocolacomycetes* R. Bauer et al.
Cryptomycocolacales Oberw. & R. Bauer
Cryptomycocolacaceae Oberw. & R. Bauer
Colacosiphon R. Kirschner et al. 2001 (H)

Class *Cystobasidiomycetes* R. Bauer et al.
Erythrobasidiales genera *incertae sedis*
Bannoa Hamam. 2002 (Y)
Erythrobasidium Hamam. et al. 1988 (Y)

Cystobasidiales R. Bauer et al.
Begerowomyces Q.M. Wang & F.Y. Bai (Y)
Robertozyma Q.M. Wang & F.Y. Bai (Y)

Cystobasidiomycetes genus *incertae sedis*
Cyrenella Goch. 1981 (H)

Class *Microbotryomycetes* R. Bauer et al.
Heterogastridiales Oberw. & R. Bauer
Heterogastridiaceae Oberw. & R. Bauer
Hyalopycnis Höhn. 1918 (C)

Kriegeriales Toome & Aime
Camptobasidiaceae R.T. Moore
Cryolevonia Pontes et al. 2020 (Y)
Glaciozyma Turchetti et al. 2020 (Y)

Leucosporidiales J.P. Samp. et al.
Leucosporidiaceae Jülich
Leucosporidiella Samp. 2003 (Y)

Microbotryales genus *incertae sedis*
Reniforma Pore & Sorenson 1990 (Y)

Rosettozymales Q.M. Wang & F.Y. Bai
Rosettozymaceae Q.M. Wang & F.Y. Bai
Rosettozyma Q.M. Wang & F.Y. Bai 2020 (Y)

Sporidiobolales Doweld
Sporidiobolaceae R.T. Moore
Blastoderma B. Fisch. & Brebeck 1894 (Y)
Rhodomyces Wettst. 1885 (H)

Sporobolomyces Kluyver & C.B. Niel 1924 (**H**)

Sporidiobolales genera *incertae cedis*

Erythrobasidium Hamam. et al. (**Y**)

Rhodotorula F.C. Harrison 1927 (**Y**)

Microbotryomycetes genus *incertae sedis*

Crucella Marvanová & Suberkr. 1990 (**H**)

Class *Pucciniomycetes* R. Bauer et al.

Helicobasidiales R. Bauer et al.

Helicobasidiaceae P.M. Kirk

Thanatophytum Nees 1816 (**H**)

Tuberculina Tode ex Sacc. 1880 (**H**)

Platyglloeales R.T. Moore

Eocronartiaceae Jülich

Glomopsis D.M. Hend. 1961 (**H**)

Platyglloeaceae Racib.

Infundibura Nag Raj & W.B. Kendr. 1981 (**H**)

Leucogloea R. Kirschner 2004 (**H**)

Uncolaceae Buriticá

Calidion Syd. & P. Syd. 1919 (**R**)

Pucciniales Clem. & Shear

Coleosporiaceae Dietel

Chrysomyxa Unger 1840 (**R**)

Cronartiaceae Dietel

Cronartium Fr. 1815 (**R**)

Crossoporsoraceae Aime & McTaggart

Neoolivea Aime & McTaggart 2020 (**R**)

Phakopsoraceae Cummins & Hirats. f.

Aeciure Buriticá & J.F. Hennen 1994 (**R**)

Macabuna Buriticá & J.F. Hennen 1994

Malupa Y. Ono et al. 1992 (**R**)

Milesia F.B. White 1878 (**R**)

Physopella Arthur 1906 (**R**)

Uredendo Buriticá & J.F. Hennen 1994 (**R**)

Uredostilbe Buriticá & J.F. Hennen 1994 (**R**)

Phragmidiaceae Corda

Gerwasia Racib. 1909 (**R**)

Physonema Lév. 1847 (**R**)

Puccineaceae Chevall.

Caeoma Link 1809 (**R**)

Roestelia Rebent. 1804 (**R**)

Pucciniastraceae Gäum. ex Leppik
 Milesia F.B. White 1878 (R)
 Peridiopsora Kamat & Sathe 1969 (R)
 Pomatomyces Oerst. 1864 (R)
 Pucciniastrum G.H. Otth 1861 (R)
Uropyxidaceae Cummins & Y. Hirats.
 Canasta A.A. Carvalho & J.F. Hennen 2010 (R)

Pucciniales genera *incertae sedis*
 Elateraecium Thirum. et al. 1966 (R)
 Intrapex J.F. Hennen & Figueiredo 1979 (R)
 Uraecium Arthur 1933 (R)
 Uredo Pers. 1801 (R)

Septobasidiales Couch ex Donk
Septobasidiaceae Racib.
 Johncouchia S. Hughes & Cavalc. 1983 (H)

Subphylum *USTILAGINOMYCOTINA* R. Bauer et al.
Class *Exobasidiomycetes* Begerow et al.
Doassansiales R. Bauer & Oberw.
Doassansiaceae R.T. Moore ex P.M. Kirk et al.
 Savulescuella Cif. 1959 (H)

Entylomatales R. Bauer & Oberw.
Entylomataceae R. Bauer & Oberw.
 Entylomella Höhn. 1924 (H)
 Tilletiopsis Derx 1948 (H)

Exobasidiales Henn.
Brachybasidiaceae Gäum.
 Meira Boekhout et al. 2003 (H)

Cryptobasidiaceae Malençon ex Donk
 Acaromyces Boekhout et al. 2003 (H)

Exobasidiales genera *incertae sedis*
 Cladostergigma Pat. 1892 (H)
 Clinoconidium Pat. 1898 (H)
 Coniodictyum Har. & Pat. 1909 (H)

Golubeviales Q.M. Wang et al.
Golubeviaceae Q.M. Wang et al. 2015
 Golubevia Q.M. Wang et al. 2015 (H)

Microstromatales R. Bauer & Oberw.
Microstromataceae Jülich
 Microstroma Niessl 1861 (H)

Quambalariaceae Z.W. de Beer et al.
 Quambalaria J.A. Simpson 2000 (H)

Microstromatales genus *incertae sedis*
Sympodiomyopsis Sugiy. et al. 1991 (Y)

Class *Spiculogloeomycetes* Q.M. Wang et al.
Spiculogloeomycetes genus *incertae sedis*
Meniscomyces Q.M. Wang & F.Y. Bai 2020 (Y)

Class *Ustilaginomycetes* R. Bauer et al.
Urocystidales R. Bauer & Oberw.
Glomosporiaceae Cif.
Rhombiella Liro 1939 (H)
Thecaphorella H. Scholz & I. Scholz 1988 (H)

Ustilaginales G. Winter
Anthracoideaceae Denchev
Crotalia Liro 1938 (Y)

Cintractiellaceae Vánky
Naiadella Marvanová & Bandoni 1987 (H)

Ustilaginaceae Tul. & C. Tul.
Pseudozyma Bandoni emend. Boekhout 1985 (H)

Ustilaginomycetes order *incertae sedis*
Urocystidiales R. Bauer & Oberw.
Urocystidaceae Begerow et al.
Paipalopsis J.G. Kühn 1882 (H)

USTILAGINOMYCOTINA, order *incertae sedis*
Malasseziales R.T. Moore
Malasseziaceae Denchev & R.T. Moore
Malassezia Baill. 1889

USTILAGINOMYCOTINA genera *incertae sedis*
Botryoconis Syd. & P. Syd. 1906 (H)
Tilletiella Zambett. 1970 (H)

BASIDIOMYCOTA class *incertae sedis*

Class *Wallemiomycetes* Zalar et al.
Wallemiales Zalar et al.
Wallemiaceae R.T. Moore
Wallemia Johan-Olsen 1887 (H)
Anguillomyces Marvanová & Bärl. 2000 (H)
Arcispora Marvanová & Bärl. 1998 (H)
Bartheletica G. Arnaud 2008 (H)
Gloeosynnema Seifert & G. Okada 1988 (H)
Lactydina Subram. 1978 ('1977') (H)
Microstella K. Ando & Tubaki 1984 (H)
Nodulospora Marvanová & Bärl. 2000 (H)
Trichosporonoides Haskins & J.F.T. Spencer 1967 (H)
Stachycoremium Seifert 1986 (H)
Stauriella Sivichai & E.B.G. Jones 2004 (H)

Phylum *Calcarisporiellomycota* Tedersoo et al.
Sub Phylum *Calcarisporiellomycotina* Tedersoo et al.
Class *Calcarisporiellomycetes* Tedersoo et al.
Calcarisporiellales Tedersoo et al.
Calcarisporiellaceae Tedersoo et al.
Calcarisporiella de Hoog 1974 (**H**)

Notes for pleomorphic genera

Acanthohelicospora Boonmee & K.D. Hyde

This genus was introduced by Boonmee et al. (2014) who show it to reside in *Tubeufiaceae*. Lu et al. (2017) introduced *Acanthohelicospora aurea*, a hyphomycetous taxon resided to *Acanthohelicospora sensu stricto*.

Acarosporina Sherwood 1977

Johnston (1985) reported *A. microspora* (R.W. Davidson & R.C. Lorenz) Sherwood with a phacidiella-like, coelomycetous asexual morph.

Acrocordia A. Massal.

Hongsanan et al. (2020b) reported conidiomata (rare) from this genus.

Acrogenospora M.B. Ellis

Ellis (1971, 1976) and Schoch et al. (2009) regarded *Farlowiella* as the sexual morph of *Acrogenospora*. Wijayawardene et al. (2020) proposed *Farlowiella*, as the older sexually typified name over *Acrogenospora*. However, Rossman et al. (2015b) did not accept this synonymy and proposed to adopt *Acrogenospora* over *Farlowiella*. Hongsanan et al. (2020b) provided the description for the holomorph of the genus. Bao et al. (2020) described several new species under *Acrogenospora*. We therefore agree that *Acrogenospora* should therefore be adopted over *Farlowiella*.

Acrospermum Tode

Carmichael et al. (1980) reported *Acrospermum compressum* Tode to have a *Dactylaria* Sacc. asexual morph. However, *Dactylaria* is considered as polyphyletic (Seifert et al. 2011), and *Dactylaria sensu stricto* is placed in *Helotiales* (Wijayawardene et al. 2020). Hence, we conclude that *Acrospermum* has dactylaria-like asexual morphs.

Aithaloderma Syd. & P. Syd.

Kirk et al. (2008) regarded *Ciferrioxypium* Bat. & H. Maia 1963 as the asexual morph of this genus, thus Chomnunti et al. (2011) proposed to adopt older, sexual generic name i.e., *Aithaloderma*.

Akanthomyces Lebert 1858

Hodge (2003) reported that this genus ‘produces white, cream or flesh-colored, cylindrical, attenuated synnemata covered with a hymenium of phialides and unicellular, hyaline conidia, in short or long chains’.

Albertiniella Kirschst.

Kirk et al. (2008) reported an acremonium-like asexual morph from this genus.

Alfaria Crous et al. 2014

This genus was introduced as a sexually typified genus by Crous et al. (2014a), but subsequent studies by Lombard et al. (2016) and Wijayawardene et al. (2016) reported asexual morphs as hyphomycetous and coelomycetous respectively.

***Alina* Racib**

Sivanesan (1981), Kirk et al. (2008) and Seifert et al. (2011) reported hyphomycetous asexual morphs (*Septoidium* sp., *Shivomyces* sp.) from this genus.

***Alternaria* Nees**

Wijayawardene et al. (2014a) and Rossman et al. (2015b) proposed to adopt the older asexually typified name over younger sexually typified name, i.e., *Lewia* M.E. Barr & E.G. Simmons 1986 (Art. F.8).

***Amarenographium* O.E. Erikss.**

Eriksson (1982) treated *Amarenomyces ammophilae* (Lasch) O.E. Erikss., the type species of *Amarenomyces* as the sexual morph of *Amarenographium metableticum*, the type species of *Amarenographium*. Phookamsak et al. (2014) and Wijayawardene et al. (2014a) proposed to adopt *Amarenographium* over *Amarenomyces* (Art. F.8). This was followed by Rossman et al. (2015b). However, Hyde et al. (2017) introduced *Amarenomyces dactylidis* Mapook et al. and showed that *Amarenographium* and *Amarenomyces* are not congeneric. Hence, Hyde et al. (2017) reinstated *Amarenomyces*. Hongsanan et al. (2020a) and Wijayawardene et al. (2020) followed Hyde et al. (2017).

***Amniculicola* Y. Zhang ter & K.D. Hyde**

Rossman et al. (2016) proposed to adopt *Amniculicola*, the younger sexually typified name over *Anguillospora* Ingold 1942 as it needed few name changes.

***Amorphotheca* Parbery 1969 (= *Hormoconis* Arx & G.A. de Vries 1973)**

Parbery (1969) introduced this genus as the sexual morph of *Cladosporium resinae* (Lindau) G.A. de Vries 1955 (Basionym: *Hormodendrum resinae* Lindau 1906 [1907]). Arx (1973) introduced *Hormoconis* Arx & G.A. de Vries to accommodate *Hormodendrum resinae* Lindau, as a new combination, *Hormoconis resinae* (Lindau) Arx & G.A. de Vries. Hence, *Hormoconis resinae* is the asexual morph of *Amorphotheca resinae* Parbery, the type species of *Amorphotheca*. The older name is adopted over the younger name, i.e., *Amorphotheca* Parbery 1969 over *Hormoconis* Arx & G.A. de Vries 1973.

***Amphisphaeria* Ces. & De Not.**

Amphisphaeria sorbi Senan. & K.D. Hyde was introduced with coelomycetous asexual morphs (Liu et al. 2015).

***Amplistroma* Huhndorf et al.**

Huhndorf et al. (2009) introduced this genus with acrodontium-like asexual morph.

***Angustimassarina* Thambug. et al.**

Thambugala et al. (2015b) introduced this genus with a hyphomycetous asexual morph.

***Anisomeridium* (Müll. Arg.) M. Choisy**

Hongsanan et al. (2020b) reported conidiomata from this genus.

***Annulohypoxylon* Y.M. Ju et al.**

Annulohypoxylon nitens (Ces.) Y.M. Ju & J.D. Rogers was reported with nodulosporium-like asexual morphs from culture (Liu et al. 2015).

***Antealophiotrema* A. Hashim. & Kaz. Tanaka**

Hashimoto et al. (2017) introduced this holomorphic genus (in *Pleosporales*) with a hyphomycetous asexual morph.

Anthodidymella Phukhams. et al.

Phukhamsakda et al. (2020) introduced this genus with a coelomycetous asexual morph.

Anthosulcatispora Phukhams. & K.D. Hyde

Phukhamsakda et al. (2020) introduced this holomorphic genus with a coelomycetous asexual morph.

Apiognomonina Höhn.

Rossman et al. (2015a) proposed to adopt the younger, sexually typified name over the older asexually typified name, *Discula* Sacc. 1884 since *Apiognomonina errabunda* is the cause of anthracnose of oak and of various hardwood trees.

Apiosphaeria Höhn. 1909

Guterres et al. (2018) reported an asexual morph for *Apiosphaeria guaranitica*, which is the type species of *Apiosphaeria*.

Apiosporina Höhn.

Sivanesan (1984) reported a *Cladosporium* sp. asexual morph from *A. collinsii* (Schwein.) Höhn., the type species of the genus. However, this taxon was assigned to *Fusicladium sensu lato* by Braun et al. (2003). Zhang et al. (2011) followed the conclusion in Braun et al. (2003) and accepted that *Apiosporina* has a fusicladium-like asexual morph.

Apiosporopsis (Traverso) Mariani.

Senanayake et al. (2017a) reported an asexual morph from *A. carpineae* (Fr.) Mariani based on Potebnia (1910).

Aquadictyospora Z.L. Luo et al.

Li et al. (2017) introduced this aquatic hyphomycetous genus from China. Phylogenetic analyses confirmed its placement in *Dictyosporiaceae*.

Aquanectria L. Lombard & Crous

Lombard et al. (2015) introduced this genus with a hyphomycetous asexual morph.

Aquaphila Goh et al.

Boonmee et al. (2014) reported the sexual morph of this genus.

Aquasubmersa K.D. Hyde & Huang Zhang

Ariyawansa et al. (2015) introduced *A. japonica* A. Hashim. & Kaz. Tanaka as a holomorph.

Arachnocrea Z. Moravec.

This genus was reported with a holomorph and the asexual morph resembles *Verticillium* (Kirk et al. 2008, Hyde et al. 2020b).

Arthrinium Kunze

Réblová et al. (2016a) proposed to adopt the older, asexually typified name, *Arthrinium*, over the younger, sexually typified name *Apiospora* Sacc. 1875.

Arthrobotrys Corda

Baral et al. (2017) proposed to adopt the older, asexually typified name over *Orbiliella* Kirschst. 1938.

Arxotrichum A. Nováková & M. Kolařík

Crous et al. (2018) introduced this genus with *A. wyomingense* A. Nováková & M. Kolařík as the type species. At the same time, Crous et al. (2018) introduced the second species as a new combination, as the *Arxotrichum wyomingense* which clustered with *Chaetomium succineum*, a sexual morph.

***Aschersonia* Mont.**

Rossman et al. (2016) proposed to adopt the younger sexually typified name, *Hypocrella* Sacc. 1878, over *Aschersonia* Mont. 1848, the older, asexually typified name. However, Hyde et al. (2020b) did not agree with this adoption and proposed to adopt older, asexually typified name. We also agree with Hyde et al. (2020b) since *Aschersonia* is the older name and it has more species epithets in Species Fungorum (2021) (55 vs. 54) and it has more Google Scholar hits (i.e., widely used) (3430 vs. 1590).

***Ascocalyx* Naumov**

Johnston et al. (2014) followed Groves (1936) and accepted that *A. abietis* Naumov, the type species of *Ascocalyx* and *Bothrodiscus pinicola* Shear 1907, the type of *Bothrodiscus* Shear 1907 are congeneric. Since *Ascocalyx* is commonly used and a minor pathogen, Johnston et al. (2014) proposed to adopt it over *Bothrodiscus*.

***Ascochyta* Lib.**

Chen et al. (2015) reported the holomorph of this genus and provided a comprehensive description.

***Ascocodinaea* Samuels et al.**

Kirk et al. (2008) and Seifert et al. (2011) reported dictyochaeta-like asexual morphs from this genus.

***Ascoconidium* Seaver**

Johnston et al. (2014) proposed to adopt older, asexually typified name, *Ascoconidium* over *Sageria* A. Funk 1975, the younger, sexually typified name.

***Ascocoryne* J.W. Groves & D.E. Wilson**

Johnston et al. (2014) proposed to adopt *Ascocoryne* over *Coryne* Nees 1816, *Pirobasidium* Höhn. 1902, *Pleurocolla* Petr. 1924 and *Endostilbum* Malençon 1964. However, *Pleurocolla* was accepted as a distinct genus in *Nectriaceae* (Wijayawardene et al. 2020).

***Ascodichaena* Butin**

Johnston et al. (2014) proposed to adopt *Ascodichaena* over *Polymorphum* Chevall. 1822, *Psilospora* Rabenh. 1856 and *Dichaenopsis* Paoli 1905. However, Index Fungorum (2021) listed *Dichaenopsis* as a synonym of *Stagonospora* (Sacc.) Sacc.

***Ascolacicola* Ranghoo & K.D. Hyde**

This genus was introduced with a trichocladium-like asexual morph Ranghoo & Hyde (1998).

***Ascosphaera* L.S. Olive et al.**

Kirk et al. (2008) reported chrysosporium-like asexual morphs.

***Ascotaiwania* Sivan. & H.S. Chang**

Yang et al. (2016) introduced *Ascotaiwania fusiformis* Jing Yang et al. which represents an asexual morph.

***Ascotricha* Berk.**

Wendt et al. (2017) proposed to adopt *Ascotricha*, the older sexually typified name over *Dicyma* Boulanger 1897, the younger, asexually typified generic name.

Ascotrichella Valldos. & Guarro

Kirk et al. (2008) reported a humicola-like asexual morph from this genus.

Aspergillus P. Micheli ex Link

Houbraken & Samson (2011) reported the holomorph of the genus *Aspergillus*.

Asteridiella McAlpine

Hosagoudar & Riju (2013) reported this genus has phialides produced from hyphae.

Asterinella Theiss.

Kirk et al. (2008) reported this genus with *Asterostomula*, asteromella-like asexual morphs. However, Wijayawardene et al. (2020) accepted *Asterostomula* as a distinct genus in *Ascomycota* genera *incertae sedis*.

Asterodothis Theiss.

Hongsanan et al. (2014) reported that *Asterostromina solaris* Bat. & A.F. Vital, the type species of *Asterostromina* Bat. & A.F. Vital is the asexual morph of this genus.

Astrothelium Eschw.

Hongsanan et al. (2020b) reported a coelomycetous asexual morph from this lichenized genus.

Atkinsonella Diehl

Ginns (2011) reported an acremonium-like asexual morph from this genus.

Atrocalyx A. Hashim. & Kaz. Tanaka

This genus was introduced with a coelomycetous asexual morph and phylogenetic analyses showed that it belongs in Lophiotremataceae (Hashimoto et al. 2017).

Aureovirgo J.A. van der Linde et al.

This genus was introduced by van der Linde et al. (2016) with a leptographium-like asexual morph.

Austropleospora R.G. Shivas & L. Morin

This genus was reported with an asexual morph which belongs in *Camarosporium* Schulzer *sensu lato* (Morin et al. 2010). Verkley et al. (2014) (originally as *Paraconiothyrium* but later transferred to this genus by Ariyawansa et al. (2015). Jayasiri et al. (2019) introduced a new species which resembled paraconiothyrium-like asexual morphs.

Auxarthronopsis Rah.

Sharma et al. (2013) introduced this genus with a hyphomycetous asexual morph.

Bactrodesmium Cooke

Réblová et al. (2020a) showed that this genus belongs in *Savoryellales*.

Balansia Speg.

Rossman et al. (2016) proposed to adopt the younger, sexually typified name, *Balansia* over *Ephelis* Fr. 1849, the older, asexually typified name. Hyde et al. (2020b) mistakenly included *Ephelis* Fr. as an accepted genus. Furthermore, Hernández-Restrepo et al. (2016) introduced

Ephelis tripsaci (D. Mulder & Arx) Hern.-Restr. & Crous, apparently it needs a name under *Balansia*.

Balladyna Racib.

Seifert et al. (2011) reported *Clasterosporium* sp. and *Tretospora* sp. as asexual morphs of this genus as conidia were associated with ascomata.

Bambusaria Jaklitsch et al.

Jaklitsch et al. (2015) introduced this genus with a coelomycetous asexual morph.

Bambusicola D.Q. Dai & K.D. Hyde

Dai et al. (2012) introduced this genus with a coelomycetous asexual morph.

Barbatosphaeria Réblová

Réblová (2007) introduced this genus and reported an asexual morph which resembles *Sporothrix* and *Ramichloridium*.

Barrina A.W. Ramaley

This genus was introduced by Ramaley (1997) with a phialophora-like asexual morph.

Barrmaelia Rappaz

Kirk et al. (2008) reported a libertella-like asexual morph from this genus.

Batistia Cif.

Réblová et al. (2016a) proposed to adopt the older sexually typified name rather than *Acrostroma* Seifert 1987, the younger, asexually typified name.

Beauveria Vuill.

Li et al. (2001), Rehner et al. (2011) and Kepler et al. (2017) reported the sexual morph of this genus as cordyceps-like.

Berkleasmium Zobel

Hongsanan et al. (2020b) and Wijayawardene et al. (2020) accepted this genus as a member of *Tubeufiaceae*.

Berkleasmium Zobel

Lu et al. (2018) reported that this genus is holomorphic. The sexual morph shows a ‘superficial ascomata with dark brown to black multi-celled setae, and cylindrical asci with slightly curved fusiform ascospores’ and the asexual morph is hyphomycetous, dictyosporous and helicosporous.

Bettsia Skou

Kirk et al. (2008) reported chrysosporium-like asexual morphs.

Biatoropsis Räsänen

Kirk et al. (2008) reported a hormomyces-like asexual morph from this genus.

Biatriospora K.D. Hyde & Borse

Hongsanan et al. (2020a) reported the hyphomycetous asexual morph of this genus while introducing *B. borsei* B. Devadatha & V.V. Sarma, a hyphomycetous taxon.

Bimuria D. Hawksw. et al.

Wijesinghe et al. (2020) introduced *B. omanensis* Wijesinghe et al. which represents a coelomycetous asexual morph.

***Bioscypha* Syd.**

Kirk et al. (2008) reported a chalara-like asexual morph from this genus.

***Bipolaris* Shoemaker**

Manamgoda et al. (2012) resolved the complex of *Bipolaris*, *Cochliobolus* and *Curvularia* and showed *Bipolaris* and *Cochliobolus* formed a monophyletic clade. Hence, Manamgoda et al. (2012) proposed the use of *Bipolaris* over *Cochliobolus* (Art. F.8).

***Biscogniauxia* Kuntze**

Liu et al. (2015) showed that *B. marginata* (Fr.: Fr.) Pouzar produces nodulosporium-like asexual morphs in culture.

***Blackwellomyces* Spatafora & Luangsa-ard**

Kepler et al. (2017) introduced this genus with a hyphomycetous asexual morph.

***Blasdalea* Sacc. & P. Syd.**

Petrak (1958) introduced the genus *Chrysogloeum* to accommodate the asexual morph of *Singeriella* Petr. Kirk et al. (2008) regarded *Singeriella* as a synonym of *Blasdalea* Sacc. Both genera are monotypic. Hence, Wijayawardene et al. (2014a) proposed to adopt the oldest name *Blasdalea* over *Chrysogloeum*.

***Bloxamia* Berk.**

Bloxamia truncata (type species of the genus) was reported from cultures of single ascospore isolations of *Bisporrella sulphurina* (Berthet 1964). Johnston (1998) provided evidence of the connection between a *Bloxamia* asexual morph through isolation of *Bisporrella discedens* in pure culture. However, the type species of *Bisporrella* has not been sequenced, thus its link with *Bloxamia sensu stricto* is doubtful.

***Blumeria* Golovin ex Speer**

Braun (2013) proposed to conserve *Blumeria* 1974 over *Oidium* Link 1824, the older asexually typified name.

***Blumeriella* Arx**

Johnston et al. (2014) proposed to adopt *Blumeriella* over *Microgloeum* Petr. 1922 and *Phloeosporrella* Höhn. 1916. According to Johnston et al. (2014), 'The asexual morphs of *B. jaapii* have been referred to as *Phloeosporrella padi* for the macroconidial morph and *Microgloeum pruni* for the microconidial morph'. However, both *Blumeriella* and *Phloeosporrella* lack sequence data, thus the links with *Blumeriella* are doubtful.

***Boeremia* Aveskamp et al.**

Chen et al. (2015) provided the description of the holomorph of this genus.

***Bogoriella* Zahlbr.**

Hongsanan et al. (2020b) reported a coelomycetous asexual morph from this lichenized genus.

***Botryobambusa* Phook. et al.**

Liu et al. (2012b) introduced this genus with a coelomycetous asexual morph.

Botryohypoxylon Samuels & J.D. Rogers

Rossmann et al. (2015a) proposed to adopt this generic name over *Iledon* Samuels & J.D. Rogers, the asexually typified name. Both generic names have been introduced in the same publication and represent the sexual and asexual morph of one taxon.

Botryosphaeria Ces. & De Not.

The genus *Botryosphaeria* has two different types of coelomycetous asexual morphs viz *Fusicoccum* and *Dichomera* (Phillips et al. 2013, Wijayawardene et al. 2016). Thus, Wijayawardene et al. (2014a, 2017b) proposed to reduce both asexual genera under *Botryosphaeria*.

Botrytis P. Micheli ex Pers.

Johnston et al. (2014) proposed to adopt *Botrytis*, the older, asexual, typified name over *Botryotinia* Whetzel 1945, the younger sexually typified name.

Brachysporium Sacc.

Réblová et al. (2016a) proposed to adopt *Brachysporium*, the asexually typified older, asexually typified name over *Cryptadelphina* Réblová & Seifert 2004, younger, sexually typified name.

Bretziella Z.W. de Beer et al.

De Beer et al. (2017) introduced this genus with a hyphomycetous asexual morph.

Brooksia Hansf.

Moore (1962) introduced *Hiospira* R.T. Moore to accommodate the conidial morph of *Brooksia tropicalis* Hansf., the type species of this genus. Hence, Wijayawardene et al. (2014a) proposed to reduce *Hiospira*, the younger asexually typified name under *Brooksia*, the sexually typified name.

Brunneiperidium Daranag. et al.

Daranagama et al. (2015) introduced this genus with a hyphomycetous asexual morph.

Brunneocarpos Giraldo & Crous

Crous et al. (2016a) introduced this genus with a hyphomycetous asexual morph.

Brunneofusispora S.K. Huang & K.D. Hyde

Wanasinghe et al. (2020) reported a coelomycetous asexual morph for this genus.

Bryochiton Döbbeler & Poelt

Wäli et al. (2014) reported *Bryochiton* sp. with chlamydospores-like stages (meristematic morph) from cultures.

Budhanggurabania P. Wong et al.

Crous et al. (2015d) introduced this genus with a coelomycetous asexual morph.

Cainia Arx & E. Müll.

Senanayake et al. (2015) reported a coelomycetous asexual morph from this genus.

Calloria Fr.

Johnston et al. (2014) proposed to adopt *Calloria* over *Cylindrocolla* Bonord. 1851, the younger asexually typified name.

***Calonectria* De Not.**

Lombard et al. (2010) proposed to adopt *Calonectria*, the older, sexually typified name over *Cylindrocladium* Morgan 1892, the younger, asexually typified name.

***Caloscypha* Boud.**

Healy et al. (2016) adopted *Caloscypha*, the older, sexually typified name over *Verticicladium* Preuss 1851, the younger asexually typified name.

***Calosphaeria* Tul. & c. Tul.**

Réblová et al. (2016a) proposed to adopt *Calosphaeria*, the older, sexually typified name over *Calosphaeriophora* Réblová et al. 2004, the younger, asexually typified name.

***Calostilbe* Sacc. & Syd.**

Rossman et al. (1999), Kirk et al. (2008), Seifert et al. (2011) and Lombard et al. (2015) regarded *Calostilbella* Höhn. as the asexual morph of *Calostilbe*. Hence, the older, sexually typified name *Calostilbe* was adopted over the younger, asexually typified name *Calostilbella*.

***Calycellina* Höhn.**

Johnston et al. (2014) proposed to adopt *Calycellina*, sexually typified older name over *Chaetochalara* B. Sutton & Piroz. 1965, the younger asexually, typified name.

***Camarosporium* Schulzer**

Wanasinghe et al. (2017a) provided a comprehensive background of homomorphism of this genus.

***Camarosporula* Petr.**

Camarosporula Petr. 1954 and *Anthracostroma* Petr. 1954 are congeneric and published in the same publication. Wijayawardene et al. (2014a) proposed to adopt the sexually typified name, *Anthracostroma*. However, Rossman et al. (2015b) proposed to adopt *Camarosporula* as it is reported frequently.

***Camporesiomyces* D.P. Wei et al.**

Hyde et al. (2020a) introduced this genus with a hyphomycetous morph.

***Camptophora* Réblová & Unter.**

Yang et al. (2018a) reported sexual morph of *Camptophora hylomeconis* (Crous et al.), Réblová & Unter.

***Camillea* Fr.**

Wendt et al. (2017) proposed to adopt older, sexually typified name *Camillea* over *Xylocladium* P. Syd. ex Lindau, the younger, asexually typified name.

***Canalisporium* Nawawi & Kuthub.**

Réblová et al. (2016a) proposed to adopt older, asexually typified name *Canalisporium* rather than *Ascothailandia* Sri-indr. et al. 2010, the younger sexually typified name.

***Canomyces* Rahul Sharma & Shouche**

Sharma & Shouche (2020) introduced this genus and reported arthroconidia from the cultures.

***Capnodium* Mont.**

Chomnunti et al. (2011) confirmed that *Polychaeton* (Pers.) Lév. 1846 is the asexual morph of this genus thus, regaded as a synonym. Rossman et al. (2015b) proposed to adopt the younger sexually typified name over older asexually typified name.

***Caprettia* Bat. & H. Maia**

Hongsanan et al. (2020b) reported conidiomata from this genus.

***Caproventuria* U. Braun**

Zhang et al. (2011) concluded that *Pseudocladosporium* to be asexual morph of *Caproventuria*. Hongsanan et al. (2020b) accept *Pseudocladosporium* as the asexual morph of *Caproventuria*, but this needs confirmation by phylogenetic analyses.

***Ceramothyrium* Bat. & H. Maia**

Constantinescu et al. (1989) introduced *Stanhughesia* Constant. to accommodate the asexual morph of three species of *Ceramothyrium*. *Stanhughesia carniolica* O. Const., *S. linnaeae* O. Const. and *S. lycopodii* O. Const. were introduced as the asexual morphs of *Ceramothyrium carniolicum* (Rehm) Petrak., *C. linnaeae* (Dearn.) Hughes and *C. lycopodii* K. & L. Holm respectively. The links between morphs were confirmed by culture studies (Constantinescu et al. 1989) thus, younger asexually typified name, i.e., *Stanhughesia* is regarded as a synonym of older sexually typified name i.e., *Ceramothyrium*.

***Ceratocystiopsis* H.P. Upadhyay & W.B. Kendr.**

Upadhyay & Kendrick (1975) introduced this genus and its asexual morph *Hyalorhinocladiella* H.P. Upadhyay & W.B. Kendr. *Ceratocystiopsis* was published prior to *Hyalorhinocladiella* thus, former, sexually typified name is adopted over the latter, younger asexual name.

***Ceratocystis* Ellis & Halst.**

Kirk et al. (2008) and Hyde et al. (2020b) reported chalara-like and thielaviopsis-like asexual morphs.

***Ceratosphaerella* Huhndorf et al.**

Hyde et al. (2020b) reported a hyphomycetous asexual morph from this genus.

***Ceratosphaeria* Niessl**

Crous et al. (2020a) accepted this genus with a coelomycetous asexual morph.

***Cercophora* Fuckel**

This sexually typified genus has been linked with several asexual genera such as *Phialophora*, *Cladorrhinum* (Kirk et al. 2008, Siefert et al. 2011). Ueda (1994) reported a chrysosporium-like asexual morph from *Cercophora terricola* S. Ueda.

***Chaenothecopsis* Vain.**

This genus was reported as the sexual morph of *Catenomyces* Constant. 1991 (Seifert et al. 2011).

***Chaetomella* Fuckel**

Johnston et al. (2014) proposed to adopt asexually typified older name, *Chaetomella* over sexually typified younger name, *Zoellneria* Velen. 1934.

***Chaetomidium* (Zopf) Sacc.**

Kirk et al. (2008) reported this genus with a phialophora-like asexual morph.

***Chaetomium* Kunze**

Réblová et al. (2016a) proposed to adopt *Chaetomium*, the older sexually typified generic name over the younger, asexually typified genera *Trichocladium* Harz 1871, *Botryotrichum* Sacc. & Marchal 1885 or *Humicola* Traaen 1914.

***Chaetoplea* (Sacc.) Clem.**

Phookamsak et al. (2014) observed a coelomycetous morph closely associated with the sexual morph on the lectotype. Hence, the holomorph of *Chaetoplea* was established based on co-occurrence of both morphs on same host material. Moreover, Phookamsak et al. (2014) treated *Chaetoplea* as a member of *Leptosphaeriaceae* based on morphological characters.

***Chaetorostrum* Zelski et al.**

Zelski et al. (2011) introduced this genus with a hyphomycetous asexual morph.

***Chaetosphaerella* E. Müll. et al.**

Réblová et al. (2016a) proposed to adopt *Chaetosphaerella* over *Oedemium* Link 1824 and *Veramycina* Subram. 1995. Both suppressed genera are asexually typified and *Oedemium* is the older generic name. However, Réblová et al. (2016a) adopted *Chaetosphaerella* as it was frequently used rather than *Oedemium*.

***Chaetosphaeria* Tul. & C. Tul.**

Réblová & Winka (2000) and Fernández et al. (2006) reported a hyphomycetous asexual morph from this genus.

***Chaetosphaerides* Matsush.**

Matsushima (2001) introduced this genus and reported a ramichloridium-like asexual morph.

***Chiangraiomyces* Senan. et al.**

Senanayake et al. (2017a) introduced this genus with a coelomycetous asexual morph.

***Chlamydotubeufia* Boonmee & K.D. Hyde**

Boonmee et al. (2011) introduced this genus with a hyphomycetous asexual morph.

***Chloridium* Link**

Réblová et al. (2016a) proposed to adopt this name over the younger, sexually typified name.

***Chlorociboria* Seaver ex Ramamurthi et al.**

Johnston et al. (2014) proposed to adopt *Chlorociboria*, the younger, widely used sexually typified name over *Dothiorina* Höhn. 1911, older asexually typified name.

***Chlorovibrissea* L.M. Kohn**

This genus was reported with a phialophora-like asexual morph (Kirk et al. 2008).

***Chromolaenicola* Mapook & K.D. Hyde**

Mapook et al. (2020) introduced this holomorphic genus with a coelomycetous asexual morph.

***Ciliolarina* Svrcek**

Kirk et al. (2008) reported this genus with a septonema-like asexual morphs.

***Cistella* Quél.**

Kirk et al. (2008) reported a phialophora-like asexual morph.

***Cladosporium* Link**

Bensch et al. (2012), Wijayawardene et al. (2014a) and Rossman et al. (2015b) proposed to adopt *Cladosporium* over the younger sexually typified name, *Davidiella* Crous & U. Braun 2003.

***Clarohilum* Videira & Crous**

Videira et al. (2017) introduced this holomorphic genus with a hyphomycetous asexual morph. Morphologically, asexual morph resembles *Passalora*.

***Clasterosporium* Schwein**

Zhang et al. (2016) proposed to adopt the older, asexually typified name over younger, sexually typified name, *Clasterosphaeria* Sivan. 1984.

***Clathrospora* Rabenh.**

Kirk et al. (2008) mentioned that this genus has an alternaria-like asexual morphs but listed as nom. rej. (Kirk et al. 2008).

***Claussenomyces* Kirschst.**

Johnston et al. (2014) proposed to adopt the younger, sexually typified name *Claussenomyces* over older, asexually typified name, *Dendrostilbella* Höhn. 1905

***Claviceps* Tul.**

Rossman et al. (2013) proposed to adopt the younger, widely used sexually typified name, *Claviceps* over *Sphacelia* Lév. 1827 (= *Ustilagopsis* Speg. 1880), the older, asexually typified name.

***Cleistosphaera* Syd. & P. Syd.**

Boonmee et al. (2017) reported a coelomycetous asexual morph which was associated with *C. macrostegia*, the type species of this genus.

***Clonostachys* Corda**

Rossman et al. (2013) proposed to adopt *Clonostachys* the older, asexually typified name over *Bionectria* Speg. 1919, the younger, sexually typified name.

***Clypeosphaerella* Guatim. et al.**

Videira et al. (2017) introduced this holomorphic genus with a hyphomycetous (cercospora-like) asexual morph.

***Coccinonectria* L. Lombard & Crous**

Lombard et al. (2015) introduced this genus with a hyphomycetous asexual morph.

***Coccodinium* A. Massal**

Crous et al. (2007a) reported a hyphomycetous asexual morph from this genus.

***Coelodictyosporium* Thambug. & K.D. Hyde**

Thambugala et al. (2015b) introduced this holomorphic genus with dictyosporium-like spores. Phylogenetic analyses showed that it belongs in *Lophiostomataceae*.

***Collarispora* Videira & Crous**

Videira et al. (2017) introduced this genus which based on mycosphaerella-like sexual and pseudocercospora-like asexual morph.

***Colletotrichum* Corda**

Réblová et al. (2016a) proposed to adopt this genus rather than *Glomerella* Spauld. & Schrenk 1903, the younger, sexually typified name.

Collodiscula I. Hino & Katum.

Wendt et al. (2017) proposed to adopt the older, sexually typified generic name *Collodiscula* over *Acanthodochium* Samuels et al. 1987, the younger, asexually typified generic name.

Coma Nag Raj & W.B. Kendr.

Johnston et al. (2014) proposed to adopt the older, asexually typified generic name *Coma*, over *Ascocomma* H.J. Swart 1987, the younger, sexually typified generic name.

Comminutispora A.W. Ramaley

Comminutispora and *Hyphospora* A.W. Ramaley 1996 are congeneric and introduced in the same publication. Wijayawardene et al. (2014a) and Rossman et al. (2015b) proposed to adopt sexually typified name, *Comminutispora* over *Hyphospora*.

Comoclathris Clem.

Hongsanan et al. (2020a) introduced *C. galatellae* D. Pem et al. with a coelomycetous asexual morph.

Coniella Höhn.

Alvarez et al. (2016) regarded *Pilidiella* and *Schizoparme* as synonyms of the older, asexually typified name, *Coniella*.

Coniochaeta (Sacc.) Cooke

Réblová et al. (2016a) proposed to adopt this generic name over the younger asexually typified generic name, *Lecythophora* Nannf. 1934.

Coniolarrella D. García et al.

This genus was linked with rhinocladiella-like and dactylaria-like asexual morphs (Kirk et al. 2008, Seifert et al. 2011).

Conioscypha Höhn.

Réblová et al. (2016a) proposed to adopt *Conioscypha*, the older, asexually typified name rather than *Conioscyphascus* Réblová & Seifert 2004, the younger, sexually typified name.

Conlarium F. Liu & L. Cai

Liu et al. (2012a) introduced this genus with a hyphomycetous asexual morph.

Cophinforma Doilom et al.

Phillips et al. (2013) stated that *Cophinforma sensu stricto* comprises two coelomycetous taxa viz. *C. mamane* and *C. atrovirens*.

Corallomycetella Henn.

Herrera et al. (2013) and Lombard et al. (2015) regarded *Rhizostilbella* Wolk 1914 as the asexual morph of this genus. *Corallomycetella* is older than *Rhizostilbella* thus reduced latter under former name (Herrera et al. 2013).

Corallonectria C. Herrera & P. Chaverri

Herrera et al. (2013) introduced this genus with a hyphomycetous asexual morph.

Cordana Preuss

Réblová et al. (2016a) proposed to adopt this asexually typified generic name over *Porosphaerella* E. Müll. & Samuels 1982, the younger sexually typified name.

***Cordyceps* (Fr.) Link**

Kepler et al. (2017) proposed to adopt this genus name over three asexually typified names viz. *Isaria* Pers. 1794, *Microhilum* H.Y. Yip & A.C. Rath 1989, *Evlachovaea* Borisov & Tarasov 1999.

***Corinectria* C. González & P. Chaverri**

González & Chaverri (2017) introduced this genus with a hyphomycetous asexual morph.

***Cornuvesica* C.D. Viljoen et al.**

Viljoen et al. (2000) introduced this genus with a chalara-like asexual morph.

***Corollospora* Werderm.**

Réblová et al. (2015) adopted *Corollospora*, the older, sexually typified name over *Varicosporina* Meyers & Kohlm. 1965 and *Halosigmoidea* Nakagiri et al. 2009, the younger, asexually typified names.

***Corylicola* Wijesinghe et al.**

Wijesinghe et al. (2020) introduced this genus with a coelomycetous asexual morph.

***Coryneum* Nees**

Rossman et al. (2015a) proposed to adopt *Coryneum*, the older, asexually typified name over *Pseudovalsa* Ces. & De Not. 1863, the younger sexually typified name.

***Crassicarpon* Y. Marín et al.**

Marin-Felix et al. (2015) introduced this genus with hyphomycetous asexual morph. However, this name is invalid (Art. F.5.1, Shenzhen).

***Crassiclypeus* A. Hashim. et al.**

Hashimoto et al. (2018) introduced this genus with both sexual and asexual morphs. Asexual morph was reported as coelomycetous which showed ‘globose to subglobose conidiomata; peridium composed of subglobose to rectangular conidia with rounded ends, hyaline and aseptate’ (Hashimoto et al. 2018).

***Crassimassarina* A. Hashim. & Kaz. Tanaka**

Hashimoto et al. (2017) introduced this holomorphic genus with a coelomycetous asexual morph. Phylogenetic analyses confirmed that it belongs in *Lophiotremataceae*.

***Crassiperidium* M. Matsum. & Kaz. Tanaka**

Matsumura et al. (2018) introduced this holomorphic genus with a coelomycetous asexual morph. In phylogenetic analyses, it belongs in *Pleosporales* genera *incertae sedis*.

***Crassochaeta* Réblová**

Réblová (1999) reported an arthrini-like asexual morph from this genus.

***Creosphaeria* Theiss.**

Ju et al. (1993) reported *Creosphaeria sassafras* (Schwein.) Y.M. Ju et al. with asexual morphs which produce conidia from mycelia or in stromata.

***Cristulariella* Höhn.**

Johnston et al. (2014) proposed to adopt the older, asexually typified name, *Cristulariella*, over *Nervostroma* Narumi & Y. Harada 2006, the younger, sexually typified name.

***Crumenulopsis* J.W. Groves**

Johnston et al. (2014) proposed to adopt *Crumenulopsis*, the younger sexually typified, widely used name over *Digitosporium* Gremmen 1953, the older, asexually typified name. Zhuang (1988) established the link between two genera.

***Cryphonectria* (Sacc.) Sacc. & D. Sacc.**

Rossman et al. (2015a) proposed to adopt the older, sexually typified name over the younger asexually typified name, *Endothiella* Sacc. 1906.

***Cryptoclypeus* A. Hashim. & Kaz. Tanaka**

This genus is a holomorphic genus with a coelomycetous asexual morph which resides in *Lophiotremataceae* (Hashimoto et al. 2017).

***Cryptosporella* Sacc. 1877**

Rossman et al. (2015a) proposed to adopt the older, sexually typified name over the younger asexually typified name, *Disculina* Höhn. 1916

***Cryptovalsa* Ces. & De Not. ex Fuckel**

A coelomycetous asexual morph of *Cryptovalsa ampelina* (Nitschke) Fuckel was reported by Li et al. (2016).

***Cubonia* Sacc.**

Seifert et al. (2011) reported a papulaspora-like asexual morphs from this genus.

***Cucitella* Jaklitsch & Voglmayr**

Jaklitsch et al. (2018) introduced this holomorphic genus with a coelomycetous asexual morphs.

***Cucurbitaria* Gray**

Jaklitsch et al. (2018) reported this genus with a pyrenochaeta-like asexual morph.

***Curvularia* Boedijn**

Manamgoda et al. (2012) confirmed that *Pseudocochliobolus* resides in *Curvularia sensu stricto*. Hence, Manamgoda et al. (2012) proposed the older, asexually typified name, *Curvularia* over *Pseudocochliobolus* the younger, sexually typified name.

***Cyclopeltella* Petr.**

Cyclopeltella was introduced to accommodate the conidial state of *Cyclopeltis* Petr. in the same publication, but three pages after the sexual state was introduced (Petrak 1953). *Cyclopeltis* has more epithets than *Cyclopeltella* (Index Fungorum 2021), hence Wijayawardene et al. (2014a) proposed use of the sexually typified older name, *Cyclopeltis* over *Cyclopeltella*, asexually-typified younger name. However, Rossman et al. (2015b) proposed to usage of *Cyclopeltella* since *Cyclopeltis* is a later homonym of the fern genus *Cyclopeltis* J. Sm. 1846 (*Aspidiaceae*).

***Cyclothyriella* Jaklitsch & Voglmayr**

Jaklitsch & Voglmayr (2016) introduced this genus with a coelomycetous asexual morph.

***Cylindrocladiella* Boesew.**

Lombard et al. (2015) regarded *Nectricladiella* Crous & C. L. Schoch, the younger, sexually typified name as a synonym of *Cylindrocladiella*, the older, asexually typified name.

Cylindrotrichum Bonord.

Réblová et al. (2016a) proposed to adopt *Cylindrotrichum*, the older, asexually typified name rather than *Reticulascus* Réblová & W. Gams 2011, the younger sexually typified name.

Cyphellophora G.A. de Vries

Yang et al. (2018a) introduced *Cyphellophora jingdongensis* H. Yang & K.D. Hyde which represents a sexual morph.

Dactylidispora Y. Marín et al.

Marin-Felix et al. (2018) introduced this genus with a hyphomycetous asexual morph.

Dactylonectria L. Lombard & Crous

Lombard et al. (2014b) introduced this genus with a hyphomycetous asexual morph.

Daldinia Ces. & de Not.

Réblová et al. (2016a) proposed to adopt *Daldinia*, the older, sexually typified name over *Annellosporium* M.L. Davey 2010, the younger, asexually typified name.

Davidsoniella Z.W. de Beer et al.

De Beer et al. (2014) introduced this genus with a hyphomycetous asexual morph.

Dematioscypha Svrček

Johnston et al. (2014) proposed to adopt *Dematioscypha*, the younger, sexually typified name over *Haplographium* Berk. & Broome 1859 (= *Schizocephalum* 1852), the older, asexually typified name.

Dermea Fr.

Johnston et al. (2014) proposed to adopt *Dermea*, the younger, widely used sexually typified name over *Sphaeronaema* Fr., the older, asexually typified name. However, the type species of *Sphaeronaema*, *S. cylindricum* (Tode) Fr. is lacking DNA sequence data thus, its placement is unknown.

Desmazierella Lib.

Healy et al. (2016) adopted *Desmazierella*, the older, sexually typified name over *Geniculodendron* G.A. Salt 1974, the younger, asexually typified name.

Devonomyces Videira & Crous

Videira et al. (2017) introduced this holomorphic genus which comprises a hyphomycetous asexual morph.

Diachora Müll. Arg.

Diachora the older, sexually typified name was proposed to adopt rather than *Diachorella* Höhn. 1918 by Réblová et al. (2016a).

Diaporthe Nitschke

Rossman et al. (2015a) proposed to adopt the older, sexually typified name *Diaporthe*, over *Phomopsis* (Sacc.) Bubák 1905, the younger, asexually typified name.

Diaporthosporella C.M. Tian & Q. Yang

Yang et al. (2018b) introduced this genus with a coelomycetous asexual morph.

***Diatrype* Fr.**

Diatrype thailandica R.H. Perera et al. was introduced with a coelomycetous asexual morph by Li et al. (2016)

***Dicarpella* Syd. & P. Syd.**

Sogonov et al. (2008), Senanayake et al. (2017a) and Hyde et al. (2020b) accepted that this genus has *Tubakia* asexual morphs. Since the type species of both genera have not been linked, both generic names are used.

***Dichlaena* Durieu & Mont.**

Houbraken et al. (2020) tentatively accepted this genus in *Aspergillaceae*. Moreover, Houbraken et al. (2020) followed Ram (1971) who reported that the asexual morph of this genus is not aspergillus-like but a hyphomycete.

***Dichoporis* Clem.**

Hongsanan et al. (2020b) reported a coelomycetous asexual morph from this genus.

***Dictyomeridium* Aptroot et al.**

Hongsanan et al. (2020b) mentioned that this genus shows coelomycetous asexual morphs from several species.

***Dictyospora* Brahamanage et al.**

This genus was introduced by Brahamanage et al. (2017) with a hyphomycetous asexual morph and showed that it belongs in *Tubeufiaceae*.

***Didymella* Sacc. ex Sacc.**

This genus was reported as a holomorphic genus by Chen et al. (2015) and *Peyronellaea* Goid. ex Togliani 1952 was reported as its synonym.

***Didymocyrtis* Vain. 1921**

Ertz et al. (2015) regarded *Diederichia* D. Hawksw 2003 and *Diederichomyces* Crous & Trakunyingcharoen 2014 as synonyms of *Didymocyrtis* and accepted *Didymocyrtis* with phoma-like asexual morphs.

***Didymosphaeria* Fuckel**

Ariyawansa et al. (2014) transferred *Paraconiothyrium variabile* Riccioni et al. to this genus as *Didymosphaeria variabile* (Riccioni et al.) Ariyawansa & K.D. Hyde. Hence, this genus has paraconiothyrium-like asexual morphs.

***Didysimulans* Tibpromma et al.**

Tibpromma et al. (2017) introduced this genus with chlamydospores which are occasionally produced in the culture.

***Dimerium* (Sacc. & P. Syd.) McAlpine**

Boonmee et al. (2017) reported a hyphomycetous asexual morph on the holotype of *D. olivaceum*, the type species of this genus.

***Diplocarpon* F.A. Wolf**

Johnston et al. (2014) provided the historical background of *Bostrichonema*, *Diplocarpon*, *Entomosporium*, and *Marssonina* species. Based on the observations between sexual-asexual

morphs in old literature, Johnston et al. (2014) proposed to adopt *Diplocarpon* over other asexually typified genera. However, *Bostrichonema* and *Entomosporium* are lacking DNA sequences thus the link established with *Diplocarpon* is doubtful.

***Diplodia* Fr.**

Phillips et al. (2013) reported that this genus shows both asexual and sexual morphs.

***Discosia* Lib.**

Tanaka et al. (2011) introduced *Adisciso* Kaz. Tanaka et al. as the sexual morph of *Discosia sensu stricto* Wijayawardene et al. (2016) proposed to reduce *Adisciso* under *Discosia*.

***Discosphaerina* Höhn**

Holm et al. (1999) stated that this genus has asexual morphs belongs in ‘*Phyllosticta*, with holoblastic conidiogenous cells, and phialidic spermatia in *Leptodothiorella* (Aa 1973); several species form *Kabatia* (Reusser 1964, Sivanesan 1984)’.

***Dlhawksworthia* Wanas. et al.**

This genus is holomorphic as Wanasinghe et al. (2018) introduced *D. clematidicola* (Wanas. et al.) Wanas. et al. (as *Hawksworthiana clematidicola* Wanas. et al.) with a camarosporium-like asexual morph.

***Dolabra* C. Booth et al.**

Dolabra nepheliae Booth & Ting was reported with a rhabdospora-like asexual morph (Zalasky et al. 1971).

***Dothidella* Speg. 1880**

Kirk et al. (2008) reported that *Stictochorella* Höhn. as the asexual morph of this genus. However, *Stictochorella* is a synonym of *Asteromella* Pass. & Thüm. (Index Fungorum 2021). Currently, only *Asteromella pistaciarum* has sequence data in GenBank and belongs in *Dothideomycetes* genera *incertae sedis*. An ITS sequence of unidentified *Dothidella* species is also available in GenBank. However, the link between *Dothidella sensu stricto* and *Asteromella sensu stricto* needs to be confirmed with newly generated sequences from the type species of each genus.

***Dothidotthia* Höhn.**

Senwanna et al. (2019) introduced *Dothidotthia negundinicola* (Crous & A. Akulov) Senwanna et al., a hyphomycetous taxon which is phylogenetically linked to *Dothidotthia sensu stricto*.

***Dothiopeltis* E. Müll.**

Kirk et al. (2008) reported idriella-like, hyphomycetous asexual morph from this genus.

***Dothiora* Fr.**

Crous & Groenewald (2017) regarded *Dothichiza* Lib. ex Roum., *Cylindroseptoria* Quaedvl. et al. and a hormonema-like synasexual morph as the asexual morphs of *Dothiora*.

***Dothiorella* Sacc.**

This asexually typified generic name represents both sexual and asexual morphs (Phillips et al. 2013).

***Dysrhynchis* Clem.**

Boonmee et al. (2017) reported hyphomycetous asexual morph on the holotype of *D. pulchella*, the type species of the genus.

Ectodidymella L.W. Hou et al.

Hou et al. (2020) introduced this genus with a coelomycetous asexual morph.

Elsinoë Racib.

Wijayawardene et al. (2014) and Rossman et al. (2015b) proposed to adopt the younger, widely used sexually typified name, *Elsinoë* over *Sphaceloma* de Bary, the older, asexually typified name.

Emarcea Duong et al.

Crous et al. (2015d) introduced *E. eucalyptigena* Crous & M.J. Wingf. as the first asexual species from this genus.

Emericellopsis J.F.H. Beym

This genus was introduced by Beym (1940) and reported ‘conidiophores arising from substratum or aerial hyphae, and hyaline, 1–2-guttulate, elongate-ellipsoidal conidia’. Kirk et al. (2008) stated that asexual morph is acremonium-like.

Endomeliola S. Hughes & Piroz.

Hughes & Pirozynski (1994) reported phialides and conidia from the mycelium of *E. dingleyae* S. Hughes & Piroz., the type species of this genus.

Entalbotroma J.D. Rogers & P.R. Johnst.

Johnston et al. (2016) introduced this genus with a hyphomycetous asexual morph.

Eosphaeria Höhn.

Kirk et al. (2008) reported a phialophora-like asexual morph from this genus.

Eremomyces Malloch & Caing

Hongsanan et al. (2020b) reported that *E. bilateralis* Malloch & Cain, the type species of this genus with a coelomycetous asexual morphs.

Eriocamporesia R.H. Perera et al.

Hyde et al. (2020a) introduced this genus with a hyphomycetous morph.

Erysiphe R. Hedw. ex DC.

Kirk et al. (2008) and Seifert et al. (2011) listed *Pseudoidium* Y.S. Paul & J.N. Kapoor (1986) as a synonym of *Oidium*. However, *Pseudoidium* is treated as the asexual morph of *Erysiphe* (pers. comm. Susumu Takamatsu).

Erythrocarpon Zukai

Hyde et al. (2020b) reported a hyphomycetous asexual morph from this genus.

Etayoa Diederich & Ertz

Ertz et al. (2014) introduced this genus with a hyphomycetous asexual morph.

Eucasphaeria Crous

Crous et al. (2007b) introduced this genus with an ascochytopsis-like asexual morph.

Eupelte Syd.

Kirk et al. (2008) reported that this genus has *Clasterosporium* and a septoidium-like asexual

morph. However, *Clasterosporium* was confirmed as the asexual morph of *Clasterosphaeria* thus, former generic name has been adopted over latter (Zhang et al. 2016). Thus, we accept *Eupelte* with septoidium-like and clasterosporium-like asexual morphs.

***Eutiarosporella* Crous**

Crous et al. (2015b) introduced this asexually typified genus and showed it belongs to *Botryosphaeriaceae*. Li et al. (2016) introduced *E. dactylidis* (Thambug. et al.) Dissan. et al. which belongs in *Eutiarosporella sensu stricto* represents sexual morph.

***Excipulariopsis* P.M. Kirk & Spooner**

Wijayawardene et al. (2014) and Rossman et al. (2015a) proposed to adopt *Excipulariopsis*, the older, asexually typified name rather than *Kentingia* Sivan. & W.H. Hsieh 1989.

***Exosporiella* P. Karst.**

Sivanesan (1983) introduced *Anomalemma* Sivan. and at the same time confirmed *Exosporiella* as its asexual morph. *Anomalemma* is the younger generic name thus, Wijayawardene et al. (2014a) proposed to conserve *Exosporiella* over *Anomalemma*.

***Exserohilum* K.J. Leonard & Suggs**

Leonard & Suggs (1974) introduced this genus and *Setosphaeria* K.J. Leonard & Suggs as its asexual morph. Wijayawardene et al. (2014a) proposed to adopt widely used sexually typified name i.e., *Exserohilum*. Rossman et al. (2015b) agreed with this adoption.

***Fantasmomyces* DongHyeon Lee et al.**

Crous et al. (2016b) introduced this genus with hyphomycetous asexual morph

***Faurelina* Locq.-Lin.**

Kirk et al. (2008) reported an arthrographis-like asexual morph.

***Flabellascoma* A. Hashim. et al.**

This holomorphic genus with coelomycetous asexual morph was introduced by Hashimoto et al. (2018).

***Flabellascus* Réblová**

Réblová et al. (2015) introduced this genus with a hyphomycetous asexual morph.

***Flagellostrigula* Lücking et al.**

Hongsanan et al. (2020b) introduced this lichenized, coelomycetous genus.

***Flammocladiella* Crous et al.**

Crous et al. (2015c) introduced this genus only with a hyphomycetous asexual morph. Lechat & Fournier (2018) transferred *Nectria decora* to this genus as *F. decora* (Wallr.) Lechat & J. Fourn. and regarded the type species of the genus, *Flammocladiella aceris* Crous et al. as a synonym of the former species.

***Flavobathelium* Lücking et al.**

Hongsanan et al. (2020b) reported a coelomycetous asexual morph for this genus.

***Fragosphaeria* Shear**

Shear (1923) introduced this genus with an acremonium-like asexual morph.

***Fusarium* Link**

Rossman et al. (2013) proposed to adopt *Fusarium*, the older asexually typified name rather than *Gibberella* Sacc. 1877, the younger, sexually typified name.

***Fuscostagonospora* Kaz.**

Tanaka & K. Hiray. Hyde et al. (2019) introduced *Fuscostagonospora cytisi* Jayasiri et al. which represents sexual morph of the genus *Fuscostagonospora*

***Fusicolla* Bonord.**

Lombard et al. (2015) reported descriptions for the holomorph of the genus.

***Gaeumannomyces* Arx et al.**

Zhang et al. (2016) proposed to adopt *Gaeumannomyces*, the older, sexually typified name over *Harpophora* Gams 2000, the younger, asexually typified name.

***Galeaticarpa* A. Hashim. & Kaz. Tanaka**

Hashimoto et al. (2017) introduced this holomorphic genus with a coelomycetous asexual morph. Phylogenetic analyses showed that it belongs in *Lophiotremataceae*.

***Gelatinipulvinella* Hosoya & Y. Otani**

Johnston et al. (2014) proposed to adopt *Stamnaria*, the older, sexually typified name over *Titaeospora* Bubák 1916, the younger, asexually typified name.

***Gelatinipulvinella* Hosoya & Y. Otani**

The type species of *Gelatinipulvinella*, *G. astraicola* Hosoya & Y. Otani is the sexual morph of *Aureohyphozyma astraicola* Hosoya & Y. Otani, the type species of *Aureohyphozyma* Hosoya & Y. Otani 1995 (Hosoya & Otani 1995). Johnston et al. (2014) proposed to adopt *Gelatinipulvinella*, over *Aureohyphozyma*.

***Gelatinomyces* N. Sanoamuang et al.**

Sanoamuang et al. (2013) introduced this genus with a phialophora-like hyphomycetous asexual morph. Ekanayaka et al. (2019) and Wijayawardene et al. (2020; in alternative classification of *Leotiomycetes*) accepted this genus in *Leotiales* genera *incertae sedis*.

***Gibellula* Cavara**

Kepler et al. (2017) stated that this genus has a torrubiella-like sexual morphs.

***Gliocephalotrichum* J.J. Ellis & Hesselt.**

Lombard et al. (2014a) regarded *Leuconectria* Rossman 1993 as a synonym of this genus and provided the description for the holomorph.

***Gloeotinia* M. Wilson et al.**

Johnston et al. (2014) proposed to adopt this generic name over *Endoconidium* Prill. & Delacr. 1892, the older asexually typified name, mentioning ‘the relatively well-known name *G. granigena* would have to be changed’.

***Gloniopsis* De Not.**

Boehm et al. (2009) reported an aposphaeria-like asexual morph from this genus.

***Godronia* Moug. & Lév.**

Johnston et al. (2014) proposed to adopt this sexually typified generic name over *Sphaeronaema* Fr. 1815, *Topospora* Fr. 1836, *Mastomyces* Mont. 1848, *Clinterium* Fr. 1849,

Fuckelia Bonord. 1864 and *Chondropodiella* Höhn. 1917.

Godroniopsis Diehl & E.K. Cash

Johnston et al. (2014) proposed to adopt *Godroniopsis*, the older, sexually typified name over *Cryocaligula* Minter 1986, the younger, asexually typified name.

Graphilbum H.P. Upadhyay & W.B. Kendr.

Upadhyay & Kendrick (1975) introduced this genus with a hyphomycetous asexual morph.

Graphostroma Piroz.

This genus was reported with a nodulisporium-like asexual morph (Kirk et al. 2008).

Gremmeniella M. Morelet

Johnston et al. (2014) proposed to adopt the younger, sexually typified, widely used generic name, *Gremmeniella* over *Brunchorstia* Erikss. 1891.

Grovesinia M.N. Cline et al.

Johnston et al. (2014) proposed to adopt the older, sexually typified name over the younger, asexually typified name.

Gymnascella Peck

Seifert et al. (2011) stated that *Malbranchea* Sacc. has *Gymnascella* sexual morph.

Halocryptosphaeria Dayar. et al.

Hyde et al. (2020b) introduced this genus with a phomopsis-like asexual morph.

Halodiatrype Dayar. & K.D. Hyde

Dayarathne et al. (2020) reported a libertella-like asexual morph from the cultures.

Halojulella Suetrong et al.

The type species of *Halojulella*, *H. avicenniae* (Borse) Suetrong et al. was reported with coelomycetous asexual morph (Ariyawansa et al. 2013).

Halorosellinia Whalley et al.

Whalley et al. (2000) introduced this genus with a geniculosporium-like asexual morph.

Hamigera Stolk & Samson

Peterson et al. (2010), Houbraken & Samson (2011) reported the holomorph of this genus.

Hapalocystis Auersw. ex Fuckel

Senanayake et al. (2017b) reported the genus with a coelomycetous asexual morph.

Harknessia Cooke

Crous et al. (2012b) and Senanayake et al. (2017a) accepted *Harknessia* with wuestneia-like sexual morphs.

Harposporium Lohde

Quandt et al. (2014) proposed to adopt *Harposporium*, the older, asexually typified name over *Podocrella* Seaver 1928, the younger, sexually typified name.

Heleococcum P.M. Jørg.

Seifert et al. (2011) stated that this genus has acremonium-like and trichothecium-like asexual

morphs.

Helicangiospora Boonmee et al.

Boonmee et al. (2014) introduced this genus with a helicoma-like asexual morph.

Helicoma Corda

Boonmee et al. (2014) reported that this genus is pleomorphic.

Helicomycetes Link

Boonmee et al. (2014) provided the description for holomorph of this genus and confirmed its placement in *Tubeufiaceae*.

Helicosporium Nees

Boonmee et al. (2014) reported the sexual morph of this genus and confirmed its placement in *Tubeufiaceae*.

Helicotubeufia Y.Z. Lu & J.K. Liu

Liu et al. (2018) introduced this genus with a hyphomycetous asexual morph and showed that it belongs in *Tubeufiaceae*

Helminthosporium Link

Hongsanan et al. (2020a) and Wijayawardene et al. (2020) regarded that *Helminthosporiella* Hern.-Restr. et al. 2016 as a synonym of this genus. Voglmayr & Jaklitsch (2017) accepted *Helminthosporium* has massarina- or splanchnonema-like sexual morphs.

Hercospora Fr.

Norphanphoun et al. (2016) provided the description for holomorph of the genus.

Heteroepichloë E. Tanaka et al.

Tanaka et al. (2002) introduced this genus with an ephelis-like asexual morph.

Heterosphaeria Grev.

Johnston et al. (2014) proposed to adopt this sexually typified generic name which is older than *Heteropatella* Fuckel 1874, asexually typified name.

Holwaya Sacc.

Johnston et al. (2014) proposed to adopt the younger, sexually typified name *Holwaya* over the older, asexually typified name, *Crinula* Fr. 1821.

Homortomyces Crous & M.J. Wingf.

Wijayawardene et al. (2014b) introduced *Homortomyces tamaricis* from *Tamarix gallica* based on its asexual morph. Subsequent study by Thambugala et al. (2017a) reported the sexual morph of this species from the same host. DNA sequence analyses confirmed that both morphs represent one taxon.

Huntiella Z.W. de Beer et al.

De Beer et al. (2014) introduced this genus with a hyphomycetous asexual morph.

Hyalopeziza Fuckel

Kirk et al. (2008) reported a phialophora-like asexual morph.

Hyaliappendispora Senan. et al.

Senanayake et al. (2017a) introduced this genus with a coelomycetous asexual morph.

Hyalorbilia Baral & G. Marson

Baral et al. (2017) proposed to adopt the younger, sexually typified name over the older, asexually typified name, *Dwayaangam* Subram.

Hyaloscypha Boud.

Fehrer et al. (2019) reported a hyphomycetous asexual morph from this genus. Moreover, *Pseudaegerita* J.L. Crane & Schokn. and *Meliniomyces* Hambl. & Sigler 2005 were regarded as synonyms of this genus.

Hyalotiopsis Punith.

Réblová et al. (2016a) proposed to adopt the older, asexually typified name *Hyalotiopsis* rather than *Ellurema* Nag Raj & W.B. Kendr. 1985, the younger, sexually typified generic name.

Hydeomyces Maharachch. et al.

Maharachchikumbura et al. (2019) introduced this holomorphic genus with a coelomycetous asexual morph.

Hymenoscyphus Gray

This genus was linked with several asexual genera in Kirk et al. (2008), viz. *Idriella*, *Geniculospora*, *Dimorphospora*, *Helicodendron*, *Tricladium*, *Articulospora* and scytalidium-like. However, Johnston et al. (2014) did not consider these links since the type species of above asexual genera are not congeneric with type species of *Hymenoscyphus*. However, non-type species of *Hymenoscyphus* are reported with different asexual species e.g. *Tricladium splendens*, type of *Tricladium*, has a sexual morph named *Hymenoscyphus splendens* (Johnston et al. 2014).

Hyperdermium J. White et al.

Sullivan et al. (2000) reported microsclerotium-like structures from the cultures of *Hyperdermium bertonii*.

Hyphodiscus Kirschst.

Johnston et al. (2014) proposed to adopt *Hyphodiscus*, the older, sexually typified name over *Catenulifera* Hosoya 2002, the younger, asexually typified name.

Hypohelion P.R. Johnst.

Johnston et al. (2014) proposed to adopt *Godroniopsis*, the younger, sexually typified name over *Sphaeronaema* Fr. 1815, the older, asexually typified name.

Hypomyces (Fr.) Tul. et al.

Rossman et al. (2013) proposed to adopt the younger, widely used, sexually typified name *Hypomyces* over the older, asexually typified name, *Cladobotryum*.

Hypoxylon Bull.

Réblová et al. (2016a) and Wendt et al. (2017) proposed to adopt the older, sexually typified name *Hypoxylon* over *Nodulisporium* Preuss 1849, the younger, asexually typified name.

Hypsostroma Huhndorf

Hypsostroma saxicola Huhndorf, the type species of *Hypsostroma* was reported with a pleurophomopsis-like coelomycetous morph (Huhndorf 1992).

Hysterobrevium E. Boehm & C.L. Schoch

Jayasiri et al. (2018) introduced *Hysterobrevium rosae* with a coelomycetous asexual morph.

Ijuhya Starbäck

Kirk et al. (2008) reported an acremonium-like asexual morph from this genus.

Ilyonectria P. Chaverri & C. Salgado

This genus was reported with a cylindrocarpon-like asexual morph (Chaverri et al. 2011).

Immotthia M.E. Barr

Hyde et al. (2017) illustrated holomorph of the genus with brown, ellipsoidal, aseptate conidia.

Irenopsis F. Stevens

This genus has asexual morph which is directly produced from hyphae (Hongsanan et al. 2015a).

Jattaea Berl

Damm et al. (2008) introduced *Jattaea prunicola* and *J. mookgoponga* which are reported as holomorph and asexual morph respectively.

Juglanconis Voglmayr & Jaklitsch

Voglmayr et al. (2017) introduced this genus with a coelomycetous asexual morph.

Jumillera J.D. Rogers et al.

Kirk et al. (2008) reported this genus with geniculosporium-like and libertella-like asexual morph.

Juncigena Kohlm. et al.

Réblová et al. (2016a) proposed to adopt *Juncigena*, the older, sexually typified name rather than *Moheitospora* Abdel-Wahab et al. 2010, the younger, asexually typified name.

Kalmusia Niessl

Hongsanan et al. (2020a) reported coniothyrium-like, microsphaeropsis-like and paraconiothyrium-like asexual morphs from this genus.

Kamalomyces R.K. Verma et al.

Phookamsak et al. (2018) introduced *K. bambusicola* Y.Z. Lu & K.D. Hyde with a hyphomycetous asexual morph.

Kastanostachys L. Lombard & Crous

Lombard et al. (2016) introduced this genus with hyphomycetous asexual morph which has stachybotrys-like conidiophores.

Kellermania Ellis & Everh.

Minnis et al. (2012), Hyde et al. (2013), Wijayawardene et al. (2014a) accepted the older, asexually typified name i.e., *Kellermania* over the younger, sexually typified name i.e., *Planistromella*.

Kirschsteiniothelia D. Hawksw.

The type species of this genus, *K. aethiops* (Sacc.) D. Hawksw. has a hyphomycetous asexual morph (Su et al. 2016).

Kohlmeyeriopsis Klaubauf et al.

This genus was introduced with a trichocladium-like (hyphomycetous) asexual morph by Klaubauf et al. (2014).

Koorchaloma Subram.

Hyde et al. (2020b) proposed to adopt the older, asexually typified name over the younger, sexually typified name *Kananascus* Nag Raj 1984.

Kretzschmaria Fr.

A geniculosporium-like asexual morph was reported with this genus (Kirk et al. 2008).

Kretzschmariella Viégas

Kirk et al. (2008) reported a mirandina-like asexual morph from this genus.

Labridella Brenckle

Rossmann et al. (2016) proposed to adopt the younger, but frequently used sexually typified name, *Labridella* over the older, asexually typified name *Griphosphaerioma* Höhn. 1918

Lambro Racib.

Senanayake et al. (2017b) reported this genus with a cylindrosporella-like asexual morph.

Lasiodiplodia Ellis & Everh.

Phillips et al. (2013) reported the sexual morph of this genus.

Lasionectriella Lechat & J. Fourn.

Lechat & Fournier (2016) introduced this genus with an acremonium-like asexual morph.

Lasiosphaeria Ces. & De Not.

This genus was linked with *Selenosporella* G. Arnaud ex MacGarvie, *Phialophora* Medlar (Seifert et al. 2011).

Lasiosphaeris Clem.

Réblová et al. (2016a) proposed to adopt the older, sexually typified name rather than the younger, asexually typified name *Lasiadelphina* Réblová & W. Gams 2011.

Lasiostemma Theiss. et al.

Kirk et al. (2008) reported *Chaetosticta* Petr. & Syd. as the asexual morph of this genus. However, this link was not proved by culture or DNA sequence analyses.

Lentithecium K.D. Hyde et al.

Hyde et al. (2016) introduced *Lentithecium unicellulare* Abdel-Aziz, a coelomycetous taxon was introduced by Hyde et al. (2016). This was the first report of an asexual taxon which is grouped in *Lentithecium sensu stricto*.

Leptopeltis Höhn.

Kirk et al. (2008) reported a leptothyrium-like, coelomycetous asexual morph from this genus.

Leptorhaphis Körb.

Hyde et al. (2013) reported ‘short microconidia and rod-shaped, macroconidia known from some *Leptorhaphis* species’.

***Leptosphaeria* Ces. & De Not.**

Leptosphaeria cirsii Jayasiri et al. was introduced by Hyde et al. (2017) with a coelomycetous asexual morph. Apparently, this was the first time of producing asexual morph in the culture of *Leptosphaeria*.

***Leptosphaerulina* McAlpine**

Phookamsak et al. (2013) reported that *Leptosphaerulina saccharicola* Phookam. et al. has a pithomyces-like asexual state based on cultural studies.

***Leptotrochila* P. Karst.**

Leptotrochila medicaginis (Fckl) Schiepp, an important plant pathogenic species has been linked with *Sporonema phacidioides*, the type species of *Sporonema* (Sutton 1980). Hence, Johnston et al. (2014) proposed to adopt *Leptotrochila* over *Sporonema*. However, sequence data of both these species are unavailable thus this adoption (Johnston et al. 2014) needs further studies.

***Leucosphaerina* Arx**

This genus was reported with acremonium-like asexual morphs (von Arx 1987, Malloch 1989).

***Leveillula* G. Arnaud**

Kirk et al. (2008) and Seifert et al. (2011) reported that *Oidiopsis Scalia* as the asexual morph of this genus.

***Licrostroma* P.A. Lemke**

Giraldo et al. (2017) proposed to adopt *Licrostroma*, the younger, sexually typified name over *Michenera* Berk. & M.A. Curtis, the older, asexually typified name.

***Lignosphaeria* Boonmee et al.**

This genus was introduced by Thambugala et al. (2015b) with a coelomycetous asexual morph.

***Linocarpon* Syd. & P. Syd.**

Kirk et al. (2008) reported a phialophora-like asexual morph from this genus.

***Loculistroma* F. Patt et al.**

Hyde et al. (2020b) reported a cladosporium-like asexual morph from this genus, following White et al. (2003).

***Longididymella* L.W. Hou et al.**

This genus was introduced as a holomorphic genus with a coelomycetous asexual morph (Hou et al. 2020).

***Longipedicellata* H. Zhang et al.**

Phukhamsakda et al. (2016) reported a hyphomycetous asexual morph from *L. aptrootii* (Hyde & Wong) Zhang et al., the type species of *Longipedicellata*.

***Lopadostoma* (Nitschke) Traverso**

Kirk et al. (2008) reported a libertella-like asexual morph from this genus.

***Lophiostoma* Ces. & De Not.**

Lophiostoma caulium (Fr.) Ces. & De Not. was reported with a coelomycetous asexual morph in culture (Ariyawansa et al. 2015). However, the spores were not observed by Ariyawansa

et al. (2015).

***Lophiotrema* Sacc.**

Hashimoto et al. (2017) mentioned that this genus has a pycnidial asexual morph.

***Lunatiannulus* Daranag. et al.**

Daranagama et al. (2015) introduced this genus with a libertella-like asexual morph.

***Macrodiplodiopsis* Petr.**

Crous et al. (2015a) introduced the sexual morph of *M. desmazieri* (Mont.) Petr., the type species of *Macrodiplodiopsis*.

***Magnaporthiopsis* J. Luo & N. Zhang**

Luo & Zhuang (2012) introduced this genus with a phialophora-like asexual genus.

***Magnibotryascoma* Thambug. & K.D. Hyde**

Hyde et al. (2017) introduced *M. mali* Phukhams. et al., a coelomycetous taxon which grouped in *Magnibotryascoma sensu stricto*.

***Malaysiasca* Crous & M.J. Wingf.**

Crous et al. (2016a) introduced this genus with a hyphomycetous asexual morph.

***Massarina* Sacc.**

Tibpromma et al. (2018a) reported asexual taxon, *Massarina pandanicola*, which is phylogenetically linked to *Massarina sensu stricto*.

***Massariovalsa* Sacc.**

Rossman et al. (2015a) proposed to adopt *Massariovalsa*, the older, sexually typified name over *Melanconiopsis* Ellis & Everh. 1900, the younger, asexually typified name.

***Mazzantia* Mont.**

Réblová et al. (2016a) proposed to adopt the older, sexually typified name over *Mazzantiella* Höhn. 1918, the younger, asexually typified name.

***Mebarria* J. Reid & C. Booth**

Index Fungorum (2021) listed *Harknessia thujina* Ellis & Everh. 1894 as the asexual morph of *Mebarria thujina* (Nag Raj & DiCosmo) J. Reid & C. Booth (Basionym: *Cryptosporella thujina* Nag Raj & DiCosmo), the type species of this genus.

***Megalotremis* Aptroot**

Hongsanan et al. (2020b) reported conidiomata from this genus.

***Melanconiella* Sacc.**

Voglmayr et al. (2012) reported this genus with two types of asexual morphs i.e., discosporina-like and melanconium-like.

***Melanconis* Tul. & C. Tul.**

Rossman et al. (2015a) proposed to protect the younger, sexually typified names, *Melanconis* over the older, asexually typified name *Melanconium* Link 1809 since the generic concept of the latter is not well-established.

***Melanomma* Nitschke ex Fuckel**

Coelomycetous asexual morphs have been reported from this genus in Hyde et al. (2013) and Tian et al. (2015).

Melanops Nitschke

Phillips & Alves (2009) accepted this genus with a fusicoccum-like asexual morph.

Melanopsamma Niessl

Lombard et al. (2016) reported the holomorph of this genus.

Melanospora Corda

Marin-Felix et al. (2018) reported an asexual morph with phialidic conidiogenesis and hyaline conidia.

Melanotrigonum Réblová

Réblová et al. (2016b) introduced this genus with a hyphomycetous asexual morph.

Meliola Fr.

Hongsanan et al. (2015a) reported this genus has asexual morph which is directly produced from hyphae.

Menispora Pers.

Réblová et al. (2016a) proposed to adopt the older, asexually typified name *Menispora* rather than *Zignoëlla* Sacc. 1878, the younger, asexually typified name.

Menisporopsis S. Hughes

Réblová et al. (2016a) proposed to adopt *Menisporopsis*, the older, asexually typified name over *Menisporopascus* Matsush. 2003, the younger, sexually typified name.

Metacapnodium Speg.

Rossman et al. (2016) proposed to adopt *Antennularia* Rchb. 1828, *Capnocybe* S. Hughes, *Capnophialophora* S. Hughes 1966, *Capnobotrys* S. Hughes 1970, *Capnosporium* S. Hughes 1976 and *Torulopsiella* Bender 1932.

Metarhizium Sorokīn

Kepler et al. (2014) accepted that this genus has metacordyceps -like sexual morphs.

Micraspis Darker

Micraspis acicula the type species of *Micraspis* was introduced as the sexual morph of *Periperidium acicola*, the type species of *Periperidium* by Darker (1963) in the same publication. Hence, Johnston et al. (2014) proposed to adopt the sexually typified name which was introduced earlier.

Microcylus Sacc. et al.

Kirk et al. (2008) mentioned that this genus has aposphaeria-like, fusicladium-like asexual morphs and tentatively placed in *Mycosphaerellaceae*. Monkai et al. (2013) also followed this placement.

Microdochium Syd. & P. Syd.

Réblová et al. (2016a) proposed to adopt asexually typified name *Microdochium* 1924 rather than *Monographella* Petr. later in 1924, the sexually typified name. Both names were introduced in 1924 but *Microdochium* is widely used.

Microthecium Corda

This genus is reported with an asexual morph which has phialidic conidiogenesis and hyaline conidia (Marin-Felix et al. 2018).

Microthia Gryzenh. & M.J. Wingf.

Gryzenhout et al. (2006) introduced this genus with a coelomycetous asexual morph.

Microxiphium (Harv. ex Berk. & Desm.) Thüm.

Rossman et al. (2016) proposed to adopt the older, sexually typified name rather than *Dennisiella* Bat. & Cif. 1962, the younger, asexually typified name.

Miladina Svrček

Healy et al. (2016) adopted *Miladina*, the older, sexually typified name over *Actinosporella* Descals et al. 1999, the younger asexually typified name.

Moelleriella Bres.

Chaverri et al. (2008) reported an aschersonia-like asexual morph from this genus.

Mollisia (Fr.) P. Karst.

Kirk et al. (2008) reported *Anguillospora*, *Casaresia*, phialophora-like, *Sirocyphellina* asexual morphs from this genus. Seifert et al. (2011) also mentioned that *Helicodendron* Peyronel, *Cadophora* Lagerb. & Melin, *Cystodendron* Bubak are also linked to *Mollisia*. However, these links have not been proved by phylogenetic analyses.

Monascus Tiegh.

Houbraken et al. (2020) accepted *Basipetospora* as the asexual morph of this genus.

Monilinia Honey

Johnston et al. (2014) proposed to adopt the younger, sexually typified name over *Monilia* Bonord. 1851, the older, asexually typified generic name.

Monilochaetes Halst. ex Harter

Réblová et al. (2016a) proposed to adopt the older, asexually typified name *Monilochaetes*, rather than *Australiasca* Sivan. & Alcorn 2002.

Monoblastia Riddle

Hyde et al. (2013) and Hongsanan et al. (2020b) reported conidiomata (but rare) from the genus.

Monochaetiellopsis B. Sutton & DiCosmo

Johnston et al. (2014) proposed to adopt *Monochaetiellopsis*, the younger, asexually typified name over *Hypnotheca* Tommerup 1970, the older, sexually typified name.

Morchella Dill. ex Pers.

Healy et al. (2016) adopted *Desmazierella*, the older, sexually typified name over *Geniculodendron* G.A. Salt 1974, younger, asexually typified name.

Muellerella Müll. Arg.

Muggia et al. (2015) assumed that this genus could be the sexual morph of *Lichenodiplis*.

Murichromolaenicola Mapook & K.D. Hyde

Mapook et al. (2020) introduced this holomorphic genus with a hyphomycetous asexual

morph.

Muriformistrickeria Q. Tian et al.

Tian et al. (2015) introduced this genus with a coelomycetous asexual morph. Phylogenetic analyses confirmed its familial placement in *Melanommataceae*

Murilentithecium Wanas. et al.

This genus was introduced as a holomorphic genus by Wanasinghe et al. (2014). camarosporium-like asexual morph was observed from the culture.

Murinectria M. Niranjana & V.V. Sarma

Hyde et al. (2020b) introduced this genus with a hyphomycetous asexual morph.

Muriphaeosphaeria Phukhams. et al.

This holomorphic genus with a coelomycetous asexual morph was introduced by Phukhamsakda et al. (2015). Phylogenetic analyses confirmed its placement in *Phaeosphaeriaceae*.

Murispora Y. Zhang et al.

Wanasinghe et al. (2015) reported phoma-like asexual morphs from the putative culture of *M. hawksworthii*.

Mycocalicium Vain. ex Reinke

Kirk et al. (2008) reported a phialophora-like asexual morph from this genus.

Mycosphaerangium Verkley

Voglmayr et al. (2020) reported coelomycetous asexual morph from this genus and confirmed its placement in *Cenangiaceae*.

Mycosphaerelloides Videira & Crous

Videira et al. (2016) introduced this holomorphic genus with a hyphomycetous asexual morph.

Myriogenospora G.F. Atk.

White & Glenn (1994) reported an ephelis-like asexual morph from this genus.

Myrmecridium Arzanlou et al.

Réblová et al. (2016c) introduced *M. montseguinum* Réblová & J. Fourn., the first sexual morph of this genus.

Myxocyclus Riess

Tanaka et al. (2005) showed *Splanchnonema argus* as the sexual morph of *M. polycystis* based on co-occurrence.

Nalanthamala Subram.

Lombard et al. (2015) reported holomorph of this genus with a hyphomycetous asexual morph.

Nannizziopsis Currah

Kirk et al. (2008) and Seifert et al. (2011) reported *Chrysosporium* as an asexual morph of this genus but *Chrysosporium* is well distinct genus (Wijayawardene et al. 2020). Hence, we assume this genus might have been reported with a chrysosporium-like asexual morph.

Nectria (Fr.) Fr.

Rossman et al. (2013) propose to adopt the younger, sexually typified name, *Nectria* over *Tubercularia* Tode 1790, the older, asexually typified name.

***Nemania* Gray**

Geniculosporium Chesters & Greenh. 1964, the younger, asexually typified name was regarded as a synonym of the older, sexually typified name, *Nemania*.

***Neoacanthostigma* Boonmee et al.**

Boonmee et al. (2014) introduced this genus with a hyphomycetous asexual morph.

***Neoascochyta* Q. Chen & L. Cai**

Chen et al. (2015) introduced this genus with a coelomycetous asexual morph.

***Neobarya* Lowen**

According to Candoussau et al. (2007) this genus has acremonium-like, lecanicillium-like, paecilomyces-like, or calcarisporium-like asexual morphs.

***Neobulgaria* Petr.**

Kirk et al. (2008) and Seifert et al. (2011) mentioned that this genus has myrioconium-like or phialophora-like asexual morphs respectively.

***Neocamarosporium* Crous & M.J. Wingf.**

Wanasinghe et al. (2017a) reported the sexual morph of this genus.

***Neochlamydotubeufia* Y.Z. Lu et al.**

Lu et al. (2018) introduced this genus. Sexual morph of this genus resembles *Chlamydotubeufia* while asexual morph resembles *Dictyospora* (Lu et al. 2018).

***Neocordyceps* Kobayasi**

White et al. (2003) reported a hymenostilbe-like asexual morph from this genus.

***Neocryphonectria* C.M. Tian et al.**

Jiang et al. (2020a) introduced this genus with a coelomycetous asexual morph.

***Neocucurbitaria* Wanas. et al.**

Wanasinghe et al. (2017b) introduced this genus with a coelomycetous asexual morph.

***Neocurreya* Thambug. & K.D. Hyde**

Wijayawardene et al. (2016) introduced *Neocurreya acaciae* (Crous & M.J. Wingf.) Wijayaw. et al. (Basionym: *Curreya acaciae* Crous & M.J. Wingf.), a coelomycetous taxon which clustered in *Neocurreya sensu stricto*. However, Jaklitsch et al. (2016) regarded *Neocurreya* as a synonym of *Teichospora* Fuckel, the older sexually typified name. Hongsanan et al. (2020a) and Wijayawardene et al. (2020) did not agree with this synonymy. In here, we accept *Neocurreya* as a distinct genus. (However, *Neocurreya acaciae* (Crous & M.J. Wingf.) Wijayaw. et al. in invalid *fide* Art. F.5.1 (Shenzhen))

***Neodeightonia* C. Booth**

This genus is holomorphic which shows a coelomycetous asexual morph (Phillips et al. 2013).

***Neodevriesia* Quaedvl. & Crous**

Crous et al. (2015c) reported a teratosphaeria-like asexual morph of this genus.

Neodidymelliopsis Q. Chen & L. Cai

This genus was introduced with a coelomycetous asexual morph by Chen et al. (2015).

Neoerysiphe U. Braun

This genus was reported with a hyphomycetous asexual morph (Heluta et al. 2010).

Neoeutypella M. Raza et al.

Phookamsak et al. (2019) introduced this genus with a hyphomycetous asexual morph.

Neofabraea H.S. Jacks.

Phlyctema vagabunda Desm., the type species of *Phlyctema* is the asexual morph of *Neofabraea alba* (E.J. Guthrie) Verkley (Verkley 1999). Hence, Johnston et al. (2014) proposed to adopt *Neofabraea* as ‘it is well characterized phylogenetically (Abeln et al. 2000, de Jong et al. 2001), and includes a number of plant pathogens, it seems expedient to protect the name.’

Neofusicoccum Crous et al.

Crous et al. (2006) introduced this genus with a coelomycetous asexual morphs (fusicoccum-like and dichomera-like) and botryosphaeria-like sexual morph.

Neogymnomycetes G.F. Orr

Doveri et al. (2011) introduced *N. virgineus* Doveri et al. with a chrysosporium-like asexual morph.

Neohelicascus W. Dong et al.

Dong et al. (2020) introduced this genus from aquatic habitat and reported its coelomycetous asexual morph.

Neomelanconium Petr.

Voglmayr et al. (2020) reported that this asexual typified genus has sexual morph and confirmed its placement in *Cenangiaceae*.

Neolamproconium Crous & Akulov

This holomorphic genus with coelomycetous asexual morph was introduced by Crous et al. (2019).

Neonectria Wollenw.

This genus was reported with *Cylindrocarpon* Wollenw. asexual morph thus, Chaverri et al. (2011) proposed to adopt it over *Cylindrocarpon*.

Neoparodia Petr. & Cif.

This genus was reported with chuppia-like and sarcinella-like asexual morphs (Kirk et al. 2008, Seifert et al. 2011).

Neophaeoappendicospora Crous & M.J. Wingf.

Crous et al. (2019) introduced this genus with a coelomycetous asexual morph.

Neophaeosphaeria M.P.S. Câmara et al.

Crous et al. (2013) introduced *N. agaves* Crous & Yáñez-Moral., a coelomycetous taxon which clustered in *Neophaeosphaeria sensu stricto*. Later, Hyde et al. (2018) introduced *N. phragmiticola* A. Karunarathna & K.D. Hyde, a coelomycetous taxon.

Neophyllachora Dayar. & K.D. Hyde

Dayarathne et al. (2017) introduced this genus with a coelomycetous asexual morph.

Neophysalospora Crous & M.J. Wingf.

This genus was introduced by Crous et al. (2014b) with a coelomycetous asexual morph and showed that it belongs to *Clypeophysalosporaceae*

Neoplatysporoides Crous & M.J. Wingf.

Crous et al. (2015d) introduced this genus with a coelomycetous asexual morph but in this study, they listed this genus under *Pleosporaceae*. Later, Crous & Groenewald (2017) showed that this genus belongs in *Libertasomycetaceae*.

Neopseudocercospora Videira & Crous

Videira et al. (2016) introduced this holomorphic genus with a hyphomycetous asexual morph.

Neoroussioella Jian K. Liu et al.

Liu et al. (2014) introduced this genus with a coelomycetous asexual morph.

Neostagonosporella C.L. Yang et al.

Yang et al. (2019) introduced this holomorphic genus which showed a coelomycetous asexual morph.

Niesslia Auersw.

Gams et al. (2019) revised the genus and accepted it with monocillium-like asexual morphs.

Nigelia Luangsa-ard

Luangsa-ard et al. (2017) introduced this genus with asexual morph which is characterized by ‘verticillately or irregularly branched conidiophores and solitary conidiogenous cells or phialides with or without lateral necks’.

Nigrocornus Ryley & Langdon

White et al. (2003) reported an asexual morph which ‘bears simple, indeterminate conidiophores and holoblastic, obclavate, multiguttulate, aseptate conidia’.

Nigrograna Gruyter et al.

Nigrograna cangshanensis Z.L. Luo et al. was introduced by Tibpromma et al. (2017) which represents the sexual morph of this genus.

Nigrospora Zimm.

Réblová et al. (2016a) proposed to adopt the older, asexually typified name *Nigrospora* rather than *Khuskia* H.J. Huds. 1963, the younger, sexually typified name.

Nigrovothelium Lücking et al.

Hongsanan et al. (2020b) reported that this genus occasionally shows pycnidial asexual morph.

Nothoseptoria Crous & Bulgakov

Crous et al. (2019) introduced this coelomycetous genus which is morphologically resembles *Septoria sensu stricto*. However, phylogenetically both genera are distinct but accommodated in *Mycosphaerellaceae*.

Obolarina Pouzar 1986

Kirk et al. (2008) reported a rhinocladiella-like asexual morph from this genus.

Occultibambusa D.Q. Dai & K.D. Hyde

Dai et al. (2017) introduced this holomorphic genus with a coelomycetous asexual morph.

Ochroconis de Hoog & Arx

Samerpitak et al. (2014) reported the sexual morph of this genus.

Ocotomyces H.C. Evans & Minter

The type species of *Ocotomyces*, *O. parasiticus* H.C. Evans & Minter is the sexual morph of *Uyucamyces parasiticus* H.C. Evans & Minter 1985, the type species of *Uyucamyces*. Johnston et al. (2014) proposed to adopt the wisely used sexually typified name, *Ocotomyces* over *Uyucamyces*.

Oculimacula Crous & W. Gams

Crous et al. (2003) introduced this genus and at the same time introduced its asexual morph, *Helgardia* Crous & W. Gams 2003. Johnston et al. (2014) proposed to adopt the sexually typified name, *Oculimacula* over *Helgardia*.

Ohleria Fuckel.

Jaklitsch & Voglmayr (2016) reported asexual morphs resembling ‘phoma-like, synanamorph presumably monodictys-like’.

Omnidemptus P.F. Cannon & Alcorn

Cannon & Alcorn (1994) introduced this genus and its type species was reported with an asexual morph, *Mycoleptodiscus affinis* Alcorn & P.F. Cannon.

Ophiocordyceps Petch

Quandt et al. (2014) proposed to adopt the younger, sexually typified name, *Ophiocordyceps* over the older, asexually typified generic names, *Sorosporella* Sorokin 1888 and *Hirsutella* Pat. 1892 as the sexual name is widely used.

Ophiodiaporthe Y.M. Ju et al.

Fu et al. (2013) introduced this genus with a coelomycetous asexual morph.

Ophiostoma Syd. et al.

The asexual morph of this genus has been accepted with ‘sporothrixlike or pesotum-like conidiogenous cells with ellipsoidal to cylindrical obovate, globose and aseptate conidia’ (Hyde et al. 2020b).

Orbilina Fr.

Baral et al. (2017) proposed to adopt *Orbilina*, the older, sexually typified name over *Dicranidion* Harkn., the younger, asexually typified name.

Orromyces B. Sur et al.

Kirk et al. (2008) reported chrysosporium-like asexual morphs.

Ovulinia F.A. Weiss

Johnston et al. (2014) proposed to adopt the older, sexually typified name, *Ovulinia* over the younger asexually typified name, *Ovulitis* N.F. Buchw. 1970

Paecilomyces Bainier

Houbraken & Samson (2011) and Houbraken et al. (2020) confirmed that *Byssochlamys* Westling 1909 and *Paecilomyces* cluster as a monophyletic group. The older, asexually typified name i.e., *Paecilomyces*, was adopted by Houbraken & Samson (2011).

Pallidocercospora Crous

Crous et al. (2012a) introduced this holomorphic genus with a hyphomycetous asexual morph.

Palmiascoma Phook. & K.D. Hyde

Liu et al. (2015) introduced this genus with a coelomycetous asexual morph.

Parabambusicola Kaz. Tanaka & K. Hiray.

Tanaka et al. (2015) introduced this holomorphic genus with a hyphomycetous (monodictys-like) asexual morph.

Paraboeremia Q. Chen & L. Cai

This genus was introduced with a coelomycetous asexual morph (Chen et al. 2015).

Paracollema Otálora & Wedin

Otálora et al. (2014) introduced this genus with a pycnidial stage but the name was invalidly published. Hence, Wedin et al. (2017) validated the generic name.

Paraconiothyrium Verkley

Crous et al. (2020b) introduced *Paraconiothyrium iridis* Crous & Akulov which represents sexual morph.

Paracremonium L. Lombard & Crous

Lombard et al. (2015) introduced this genus with a hyphomycetous asexual morph.

Parafenestella Jaklitsch & Voglmayr

This genus was introduced as a holomorphic genus with a coelomycetous asexual morph by Jaklitsch et al. (2018).

Paragaeumannomyces Matsush.

Réblová et al. (2020b) reported hyphomycetous asexual morphs from this genus.

Paragnomonina Senan. & K.D. Hyde

Senanayake et al. (2017b) introduced this genus with a coelomycetous asexual morph.

Paraisaria Samson & B.L. Brady

Mongkolsamrit et al. (2020) reinstated this genus and reported hyphomycetous asexual morph.

Paraleptosphaeria Gruyter et al.

Gruyter et al. (2012) introduced this holomorphic genus which has leptosphaeria-like sexual morph and phoma-like asexual morph. Hongsanan et al. (2020a) showed that *Acicuseptoria* Quaedvl. et al. 2013 (Quaedvlieg et al. 2013) clustered in *Paraleptosphaeria sensu stricto* thus regarded former genus as a synonym of later genus. This synonymy was accepted in Wijayawardene et al. (2020).

Paranectriella (Henn. ex Sacc. & D. Sacc.) Höhn. 1910

Wijayawardene et al. (2014a) proposed to adopt *Araneomyces* Höhn., over *Paranectriella* as

these two genera were reported as asexual and sexual morphs of one taxon respectively (Sutton 1980). However, Rossman et al. (2015b) did not agree with this adoption and proposed to conserve *Paranectriella*.

Parapallidocercospora Videira et al.

Videira et al. (2017) introduced this holomorphic genus and confirmed its phylogenetic placement in *Mycosphaerellaceae*.

Paraphaeosphaeria O.E. Erikss.

Verkley et al. (2014) reported a parconiothyrium-like asexual morph from this genus.

Pararoussoella Wanas. et al.

Crous et al. (2019) introduced *P. juglandicola* Crous & R.K. Schumach., a coelomycetous taxon which clustered with *Pararoussoella sensu stricto* in *Roussoellaceae*.

Parodiella Speg. 1880

Kirk et al. (2008) reported that *Ascochytopsis* is the asexual morph of this genus thus Hongsanan et al. (2020b) also tentatively accepted it. However, *Ascochytopsis* is lacking DNA sequences thus its relationship with *Parodiella* is doubtful. Nevertheless, we tentatively accept that *Parodiella* has coelomycetous asexual morph.

Penicillifer Emden

Lombard et al. (2015) reported the holomorph of this genus.

Penicilliopsis Solms et al.

Houbraken & Samson (2011) and Houbraken et al. (2020) accepted this genus as a holomorph.

Penicillium Link

Houbraken & Samson (2011) reported the holomorph of the genus and provided the synonymy of the genus.

Periantria Döbbeler & P.G. Davison

Döbbeler & Davison (2018) introduced this genus with an acremonium-like asexual morph.

Periconia Tode

Tanaka et al. (2015) introduced *Periconia homothallica* Kaz. Tanaka & K. Hiray. and *P. pseudodigitata* Kaz. Tanaka & K. Hiray., holomorphic taxa which grouped in *Periconia sensu stricto*.

Perisporiopsis Henn.

Kirk et al. (2008) reported that this genus has *Septoidium* asexual morph. However, based on early studies, Seifert et al. (2011) reported that *Septoidium* has been linked with several other sexual genera. *Septoidium* is lacking sequence data in the GenBank thus the sexual-asexual links among genera are doubtful. However, in here, we tentatively report hyphomycetous asexual morph from *Perisporiopsis*.

Petrakia Syd. & P. Syd.

Butin et al. (2013) stated that *Petrakia* showed *Mycodidymella* sexual morphs. Hongsanan et al. (2020a) and Wijayawardene et al. (2020) listed this genus under *Melanommataceae*.

Pezicula Tul. & C. Tul.

Verkley et al. (1999) accepted *Cryptosporiopsis fasciculata* as the asexual morph of *P. carpinea*, the type species of *Pezicula*. Furthermore, Verkley (1999) regarded *Pezicula ocellata* as the sexual morph of *C. nigra* the type species of *Cryptosporiopsis*. Hence, Johnston et al. (2014) proposed to adopt *Pezicula*, older sexually typified name over *Cryptosporiopsis*, the younger asexually typified name.

***Phacidiopycnis* Potebnia**

Johnston et al. (2014) proposed to adopt the older, asexually typified name over the younger, sexually typified name *Potebniamyces* Smerlis 1962.

***Phacidium* Fr.**

Johnston et al. (2014) proposed to adopt the older, sexually typified name *Phacidium*, over *Ceuthospora* Grev. 1827, the younger, asexually typified name.

***Phaeoacremonium* W. Gams et al.**

Réblová et al. (2015) proposed to adopt asexually typified name, *Phaeoacremonium* over sexually typified genera, *Togninia* Berl. 1900 and *Romellia* Berl. 1900. The species of *Phaeoacremonium* are known as pathogens of human and vascular plants.

***Phaeobotryon* Theiss. & Syd.**

Phillips et al. (2013) accepted this genus as a holomorphic genus.

***Phaeodimeriella* Speg.**

Boonmee et al. (2017) reported a coelomycetous asexual morph from the holotype of the type species of this genus this genus.

***Phaeopoacea* Thambug. et al.**

Thambugala et al. (2017b) introduced this genus with a coelomycetous asexual morph.

***Phaeosphaeria* I. Miyake**

Hongsanan et al. (2020a) reported the asexual morphs of this genus as phoma-like and stagonospora-like based on previous studies.

***Phaeosphaeriopsis* M.P.S. Câmara et al.**

Câmara et al. (2003) introduced this genus with a coniothyrium-like, coelomycetous asexual morph.

***Phialocephala* W.B. Kendr.**

In phylogenetic analyses, *Phaeomollisia* T.N. Sieber & Grünig resides in *Phialocephala sensu stricto* (Grunig et al. 2009, Day et al. 2012). Hence, Johnston et al. (2014) proposed to adopt *Phialocephala*, the older, asexually typified name over *Phaeomollisia*, the younger sexually typified name.

***Phoma* Sacc.**

Chen et al. (2015) reported the holomorph of *Phoma* and provided the description.

***Phomatospora* Sacc.**

Kirk et al. (2008) reported a sporothrix-like asexual morph from this genus.

***Phomatospora* Sacc.**

Rappaz (1992) and Fournier & Lechat 2010) reported sporothrix-like asexual morphs from this genus.

Phragmocapnias Theiss. & Syd.

Chomnunti et al. (2011) regarded the younger, asexual typified genus, *Conidioxyphium* Bat. & Cif. 1963 as a synonym of this genus. Rossman et al. (2015b) agreed with this synonymy.

Phyllactinia Lév. 1851

Kirk et al. (2008), Seifert et al. (2011) listed *Ovulariopsis* Pat. & Har. 1900 as the asexual morph of this genus.

Phyllobathelium (Müll. Arg.) Müll. Arg.

A coelomycetous asexual morph was reported in this lichenized genus by Hongsanan et al. (2020b).

Phyllocharis Fée

Hongsanan et al. (2020b) reported coelomycetous asexual morph from this lichenized genus.

Phylloporis Clem.

A coelomycetous asexual morph was reported in this lichenized genus by Hongsanan et al. (2020b).

Phyllosticta Pers.

Wikee et al. (2011), Wijayawardene et al. (2014a) and Rossman et al. (2015b) proposed to accept *Phyllosticta*, the older, asexually typified name over *Guignardia* the younger, sexually typified name.

Pilidium Kunze 1823

Johnston et al. (2014) proposed to adopt the older, asexually typified name, *Pilidium* over the younger, sexually typified name, *Discohainesia* Nannf. 1932.

Plenodomus Preuss

This genus represents a holomorphic taxon which has leptosphaeria-like sexual morph and phoma-like asexual morph.

Pleochaeta Sacc. & Speg.

Seifert et al. (2011) stated that this genus has *Streptopodium* R.Y Zheng & G.Q. Chen asexual morph

Pleoseptum A.W. Ramaley & M.E. Barr

Ramaley & Barr (1995) introduced this genus with *P. yuccaesedum* A.W. Ramaley & M.E. Barr as the type species. At the same time, Ramaley & Barr (1995) reported *Camarosporium yuccaesedum* as the asexual morph of *P. yuccaesedum*. However, *Camarosporium sensu stricto* is in *Camarosporiaceae* thus Wijayawardene et al. (2016) regarded that *Pleoseptum* has camarosporium-like asexual morph.

Pleurostoma Tul. & C. Tul.

Réblová et al. (2016a) proposed to adopt, the older, sexually typified name, *Pleurostoma* rather than *Pleurostomophora* Vijaykr. et al. 2004, the younger, asexually typified name.

Pleurotheciella Réblová et al.

Réblová et al. (2012) introduced this genus with a dactylaria-like asexual morph.

Pleurothecium Höhn.

Réblová et al. (2016a) proposed to adopt *Pleurothecium*, the older, asexually typified name

rather than *Carpoligna* F.A. Fernández & Huhndorf 1999, the younger, sexually typified name.

Ploioderma Darker.

Johnston et al. (2014) proposed to adopt *Ploioderma*, the older, sexually typified name over *Sphaeronaema* Fr. 1815, the older, asexually typified name.

Plurivorosphaerella O. Hassan & T.H. Chang

Hassan & Chang (2019) introduced this genus to accommodate *Mycosphaerella nawae* Hiura & Ikata which is not congeneric with *Mcosphaerella sensu stricto*. The type species of *Plurivorosphaerella*, *P. nawae* (Hiura & Ikata) O. Hassan & T. Chang has hyphomycetous asexual morph thus the genus represents holomorph.

Poaceicola W.J. Li et al.

This genus was introduced with a coelomycetous asexual morph by Li et al. (2015). In phylogenetic analyses, Li et al. (2015) showed that *Poaceicola* resides in *Phaeosphaeriaceae*.

Pochonia Bat. et al.

Zare et al. (2001) reported *Metacordyceps* sexual morph (as *Cordyceps*) from this genus.

Podonectria Petch

Boonmee et al. (2014) reported a hyphomycetous asexual morph from this genus.

Podosphaera Kunze

Kirk et al. (2008) stated that *Oidium* subgen. *Fibroidium* is the asexual morph of this genus.

Podospora Ces. 1856

A phialophora-like asexual morph was reported from this genus (Seifert et al. 2011).

Polycephalomyces Kobayasi

Blistum B. Sutton 1973, the younger, asexually typified name was regarded as a synonym of this generic name (Quandt et al. 2014).

Polymeridium (Müll. Arg.) R.C. Harris

Hongsanan et al. (2020b) reported that this genus shows pycnidial asexual morphs.

Polyplosphaeria Kaz. Tanaka & K. Hiray.

Li et al. (2016) introduced *P. thailandica* C.G. Lin et al., a hyphomycetous taxon and confirmed that it belongs in *Polyplosphaeria sensu stricto*.

Populocrescentia Wanas. et al.

Wanasinghe et al. (2018) amended the genus to include hyphomycetous asexual morphs. *Populocrescentia rosae* Wanas. et al. represents a hyphomycetous asexual morph.

Poronia Willd.

Ju & Rogers (2001) reported the asexual morph of *Poronia pileiformis* (Berk.) Fr. from the culture.

Praetumpfia Jaklitsch & Voglmayr

Jaklitsch & Voglmayr (2017) introduced this holomorphic genus with a coelomycetous asexual morph.

Pragmopora A. Massal

Johnston et al. (2014) proposed to adopt the older, sexually typified name, *Pragmopora* over the younger, asexually typified name, *Pragmopycnis* B. Sutton & A. Funk 1975.

***Prillieuxina* G. Arnaud**

Hongsanan et al. (2014) proposed to reduce the asexually typified name *Leprieurina* G. Arnaud under *Prillieuxina*. Subsequent studies by Wijayawardene et al. (2014a) and Rossman et al. (2015b) followed this synonymy.

***Prosthemium* Kunze**

Wijayawardene et al. (2014a) and Rossman et al. (2015b) proposed to adopt the older, asexually typified name *Prosthemium* over *Pleomassaria* Speg.

***Protocrea* Petch**

Jaklitsch & Samuels (2008) reported a gliocladium-like species as asexual morph of this genus.

***Protocreopsis* Yoshim**

Seifert et al. (2011) reported an acremonium-like asexual morph from this genus.

***Protofenestella* Jaklitsch & Voglmayr**

This holomorphic genus was introduced by Jaklitsch et al. (2018) and confirmed its familial placement in *Cucurbitariaceae*.

***Protoventuria* Berl. & Sacc.**

Kirk et al. (2008) reported a fusicladium-like asexual morph from this genus.

***Pruniphilomyces* Crous & Bulgakov**

Crous et al. (2019) introduced this holomorphic genus with hyphomycetous asexual morph.

***Pseudoasteromassaria* M. Matsum. & Kaz. Tanaka**

Ariyawansa et al. (2015) introduced this genus with a coelomycetous asexual morph.

***Pseudoastrosphaeriella* Phook. et al.**

Phookamsak et al. (2015) introduced this genus with a coelomycetous asexual morph.

***Pseudobogoriella* Lücking et al.**

Hongsanan et al. (2020b) introduced this genus with a pycnidial asexual morph.

***Pseudocoleophoma* Kaz. Tanaka & K. Hiray.**

Tanaka et al. (2015) introduced this genus with a coelomycetous asexual morph.

***Pseudocosmospora* C. Herrera & P. Chaverri**

Herrera et al. (2013) introduced this genus with a hyphomycetous asexual morph (acremonium-like to verticillium-like).

***Pseudocryptoclypeus* A. Hashim. & Kaz.**

This genus was introduced by Hashimoto et al. (2017) with a coelomycetous asexual morph. Phylogenetic analyses showed that it belongs in *Lophiotremataceae*.

***Pseudodidymella* C.Z. Wei et al.**

This genus was reported with a ‘pynopleiospora-like asexual morph and produce mycopappus-like propagules in their asexual morphs’ (Hongsanan et al. 2020a).

Pseudodidymosphaeria Thambug. & K.D. Hyde

This genus was introduced with a coelomycetous asexual morph by Thambugala et al. (2015a).

Pseudomonodictys Doilom et al.

Hongsanan et al. (2020a) and Wijayawardene et al. (2020) listed this genus under *Parabambusicolaceae*.

Pseudoornatispora Tibpromma & K.D. Hyde

Tibpromma et al. (2018b) introduced this genus with a hyphomycetous asexual morph.

Pseudopaucispora A. Hashim. 2018

This genus was introduced by Hashimoto et al. (2018) with a coelomycetous asexual morph. However, the authors mentioned the conidiomata as pseudopycnidial.

Pseudopezicula Korf

Korf et al. (1986) introduced this genus with a phialophora-like asexual morph.

Pseudoplagiostoma Cheew. et al.

Cheewangkoon et al. (2010) introduced this genus with a coelomycetous asexual morph.

Pseudopyrenula Müll. Arg.

Hongsanan et al. (2020b) reported that this genus occasionally shows pycnidial asexual morph.

Pseudoroussouella Mapook & K.D. Hyde

Mapook et al. (2020) introduced this genus with coniothyrium-like asexual morphs.

Pseudoscopulariopsis M. Sandoval-Denis et al.

Sandoval-Denis et al. (2016) introduced this genus with a hyphomycetous asexual morph.

Pseudosolidum Lloyd

Kirk et al. (2008) reported a plectophomella-like asexual morph.

Pseudospiromastix Guarro et al.

Hirooka et al. (2016) introduced this genus with a hyphomycetous asexual morph.

Pseudosplanchnonema Chethana et al.

Chethana et al. (2015) introduced this holomorphic genus with a coelomycetous (phoma-like) asexual morph.

Pseudothiella Petr.

Réblová et al. (2016a) proposed to adopt *Pseudothiella* over *Pseudothiopsella* Petr. since the former sexually typified name has been used more than the latter. Both names were introduced at the same time by Petrak (1928) to represent the sexual and asexual morphs of one taxon.

Pseudothiella Petr.

This older, sexually typified name was proposed to accept rather than *Pseudothiopsella* Petr. 1928, the younger asexually typified name.

Pseudozasmidium Videira & Crous

Videira et al. (2017) introduced this holomorphic genus with a coelomycetous asexual morph.

Asexual morph morphologically resembles *Zasmidium sensu stricto*.

***Puiggariella* Speg.**

Hongsanan et al. (2020b) reported a coelomycetous asexual morph from this lichenized genus.

***Purpurepithecium* Jayasiri & K.D. Hyde**

Jayasiri et al. (2017) introduced this genus with a hyphomycetous asexual morphs.

***Puttemansia* Henn.**

Kirk et al. (2008) reported that *Guelichia*, *Tetracrium* are asexual morphs of this genus. However, subsequent publications by Wijayawardene et al. (2014a), Rossman et al. (2015b, 2016) did not consider this connection. Seifert et al. (2011) reported that *Spermatoloncha*, *Tetracrium* and *Titaea* were linked with *Puttemansia*. Type species of *Guelichia*, *Puttemansia*, *Spermatoloncha*, *Tetracrium* and *Titaea* are lacking DNA sequences thus their relationships cannot be confirmed. However, we tentatively accept that *Puttemansia* has hyphomycetous asexual morph since two major publications reported it (Kirk et al. 2008, Seifert et al. 2011).

***Pycnopeziza* W.L. White & Whetzel**

Johnston et al. (2014) proposed to adopt *Pycnopeziza* over the older, asexually typified name, *Acarosporium* Bubák & Vleugel ex Bubák 1911 (= *Chaetalysis* Peyronel 1922; *Ciliosira* Syd. 1942).

***Pyrenopeziza* Fuckel**

Johnston et al. (2014) proposed to adopt the sexually typified name *Pyrenopeziza* over *Cylindrosporium* Grev.

***Pyrenophora* Fr.**

Wijayawardene et al. (2014a) proposed to adopt this genus over *Drechslera* S. Ito (Art. F.8). Rossman et al. (2015b) agreed with Wijayawardene et al. (2014a) and proposed to reduce *Mariellottia* Shoemaker under *Pyrenophora*.

***Raciborskiella* Höhnelt**

Hongsanan et al. (2020b) reported a coelomycetous asexual morph from this lichenized genus.

***Racoplaca* Fée**

Hongsanan et al. (2020b) reported a coelomycetous asexual morph from this lichenized genus.

***Ragnhildiana* Solheim**

This genus was regarded as a synonym of *Mycovellosiella* by Muntañola (1960). However, Crous & Braun (2003) treated *Ragnhildiana* and *Mycovellosiella* as synonyms of *Passalora*. Nevertheless, Videira et al. (2017) showed that *Ragnhildiana* phylogenetically distinct from *Mycovellosiella* and *Passalora*. Hence, *Ragnhildiana* was reinstated and accepted as a genus in *Mycosphaerellaceae*.

***Ramularia* Unger**

Wijayawardene et al. (2014a) and Rossman et al. (2015b) proposed to adopt the older, asexually typified name, *Ramularia* over *Mycosphaerella* Johanson 1884, the younger, sexually typified name.

Rasamsonia Houbraken et al.

Houbraken et al. (2011) introduced this genus with a hyphomycetous morph.

Readeriella Syd. & P. Syd.

Crous et al. (2009) reported this genus with a teratosphaeria-like sexual morph and *Cibiessia* synasexual morph.

Rectifusarium L. Lombard et al.

This genus was introduced by Lombard et al. (2015) with a hyphomycetous asexual morph.

Regiocrella Chaverri et al.

Chaverri et al. (2005) introduced this genus with sphacelia-like asexual morph.

Remotididymella Valenzuela-Lopez et al.

Jayasiri et al. (2019) introduced *R. bauhiniae* Jayasiri et al., the first taxon which represents the sexual morph of this genus.

Rhabdocline Syd. 1922

Sydow & Petrak (1922) introduced *Rhabdocline* and *Rhabdogloeum* in the same publication but former is described in page number 194 while the latter in 215. Parker & Reid (1969) mentioned that the type species of both genera have been linked. Johnston et al. (2014) proposed to adopt *Rhabdocline* over *Rhabdogloeum* Syd. since former is older and widely used.

Rhachisphaerella U. Braun et al.

Videira et al. (2017) introduced this holomorphic genus with a hyphomycetous asexual morph.

Rhamphoria Niessl

Réblová & Štěpánek (2018) reported a phaeoisaria-like asexual morph and an idriella-like synanamorph from in vitro conditions in two species of *Rhamphoria*.

Rhizothyrium Naumov

Johnston et al. (2014) proposed to adopt *Rhizothyrium*, the older, asexually typified name over *Rhizocalyx* Petr. 1928, the younger, sexually typified name.

Rhopalostroma D. Hawksw.

Kirk et al. (2008) reported a nodulisporium-like asexual morph from this genus.

Rhytisma Fr.

Johnston et al. (2014) proposed to adopt *Rhytisma*, the older, sexually typified name over *Melasmia* Lév. 1846, the younger, asexually typified name.

Rosellinia de Not.

Réblová et al. (2016a) adopted the older, sexually typified name *Rosellinia* over *Dematophora* R. Hartig 1883, the younger, asexually typified name.

Rostrophoxylon J. Fourn. & M. Stadler

Fournier et al. (2010) introduced this genus with a nodulisporium-like asexual morph.

Roumegueriella Speg.

Kirk et al. (2018) reported a gliocladium-like asexual morph while Seifert et al. (2011) linked it with *Acremonium*.

***Roussoella* Sacc.**

This genus was accepted with a coelomycetous asexual morphs (cytoplea-like) by Liu et al. (2014), Dai et al. (2017) and Wijayawardene et al. (2016).

***Roussoellopsis* I. Hino & Katum.**

Liu et al. (2014) accepted that this genus belongs in *Roussoellaceae* and reported that *Roussoellopsis macrospora* has melanconium-like asexual morphs.

***Rubroshiraia* D.Q. Dai & K.D. Hyde**

Dai et al. (2019) introduced this genus with a coelomycetous asexual morph.

***Rutstroemia* P. Karst.**

Kirk et al. (2008) reported a phialophora-like asexual morph from this genus.

***Ruwenzoria* J. Fourn. et al.**

Stadler et al. (2010) introduced this genus with nodulosporium-like or sporothrix-like asexual morphs.

***Ruzenia* O. Hilber**

Miller & Huhndorf (2004) introduced this genus with a selenosporella-like asexual morph.

***Saccharata* Denman & Crous**

Slippers et al. (2013) reported the holomorphism of this genus with a coelomycetous asexual morph.

***Saccothecium* Fr.**

Kirk et al. (2008) reported an aureobasidium-like asexual morph from this genus.

***Samsoniella* Mongkols. et al.**

Mongkolsamrit et al. (2018) introduced this genus with isaria-like asexual morphs.

***Samuelsia* Chaverri & K.T. Hodge**

Chaverri et al. (2008) introduced this genus with an aschersonia-like asexual morph.

***Sarcinella* Sacc.**

Rossman et al. (2016) proposed to adopt *Sarcinella* over *Schiffnerula* Höhn. 1909 (Art. F.8). However, *Sarcinella* lacks DNA sequences thus its phylogenetic placement is uncertain. Nevertheless, we tentatively follow Rossman et al. (2016).

***Sarcoscypha* (Fr.)**

Boud. Healy et al. (2016) adopted *Sarcoscypha*, older, sexually typified name over *Molliardiomyces* Paden 1984, younger asexually typified name.

***Sawadaea* Miyabe**

Kirk et al. (2008) stated that *Oidium* subgen. *Octagoidium* is the asexual morph of this genus.

***Sclerenchymomyces* Phukhams. & K.D. Hyde**

Phukhamsakda et al. (2020) introduced this genus with a coelomycetous asexual morph.

***Sclerocleista* Subram.**

Houbraken & Samson (2011) stated that ‘*Sclerocleista* differs from *Penicillium sensu stricto*. in having an Aspergillus-type anamorph and purple coloured cleistothecia filled with lenticular ascospores’.

***Scleropezicula* Verkley**

Johnston et al. (2014) proposed to adopt sexually typified name *Scleropezicula* over *Cryptosymphodula* Verkley.

***Scytalidium* Pesante**

Johnston et al. (2014) proposed to adopt this generic name over the younger, sexually typified name, *Xylogone* Arx & T. Nilsson 1969.

***Seaverinia* Whetzel**

Johnston et al. (2014) proposed to adopt *Seaverinia*, the older, sexually typified name over *Verrucobotrys* Hennebert 1973, the younger, asexually typified name.

***Seimatosporium* Corda**

Réblová et al. (2016a) proposed to adopt older, asexually typified name *Seimatosporium* 1833 rather than *Discostroma* Clem. 1909, the younger, sexually typified name.

***Septotinia* Whetzel ex J.W. Groves & M.E. Elliott**

Johnston et al. (2014) proposed to adopt *Septotinia*, older sexually typified name over *Septotis* N.F. Buchw. ex Arx 1970, the younger, asexually typified name.

***Seriascoma* Phook. Hyde**

Dai et al. (2017) introduced this holomorphic genus with a coelomycetous asexual morph.

***Serusiauxiella* S.H. Jiang et al.**

Jiang et al. (2020b) introduced this genus with a coelomycetous asexual morph.

***Setophaeosphaeria* Crous & Y. Zhang**

Crous et al. (2014a) introduced this genus with a coelomycetous asexual morph and accepted as a genus in *Phaeosphaeriaceae*. However, subsequent study by Phookamsak et al. (2014) showed that *Setophaeosphaeria* did not group in *Phaeosphaeriaceae* thus regarded as a genus in *Pleosporales*, genera *incertae sedis*.

***Shiraia* Henn.**

This genus was reported with a coelomycetous asexual morph which has ‘holoblastic conidiogenous cells bearing asymmetrical, hyaline to light brown, fusiform, muriform conidia with acute basal, obtuse apex, or both obtuse ends’ (Hyde et al. 2013, Hongsanan et al. 2020a)

***Sodiomyces* A.A. Grum-Grzhim. et al.**

Grum-Grzhimaylo et al. (2013) introduced this genus with hyphomycetous asexual morph but was invalid. Hence, Crous et al. (2019)

***Spadicoides* S. Hughes**

Réblová et al. (2018) reported the sexual morph of *S. bina*, *S. fuscolutea* and *S. hyalostoma*. Moreover, Réblová et al. (2018) reported a selenosporella-like synasexual morph of *S. bina* and *S. fuscolutea* in vitro.

***Sparticola* Phukhams. et al.**

This genus was introduced by Phukhamsakda et al. (2016) with a hyphomycetous asexual

morph and showed that it belongs in *Sporormiaceae*.

***Sphaeronaemella* P. Karst.**

Réblová et al. (2016a) proposed to adopt this sexually typified name rather than *Gabarnaudia* Samson & W. Gams 1974, the younger, asexually typified name.

***Sphaeropsis* Sacc.**

Phillips et al. (2013) accepted this genus as a holomorphic genus with a coelomycetous asexual morph.

***Sphaerostilbella* (Henn.) Sacc. et al.**

Rossmann et al. (2013) proposed to adopt the younger, widely-used, sexually typified name, *Sphaerostilbella*, over the older, asexually typified name *Gliocladium* Corda 1840.

***Spiromastigoides* Doweld (= *Spiromastix* Kuehn & G.F. Orr)**

Hirooka et al. (2016) introduced six *Spiromastix* species with hyphomycetous asexual morphs.

***Sporidesmium* Link**

Zhang et al. (2017) introduced *S. thailandense* W. Dong et al., which represents a sexual morph.

***Sporophagomyces* K. Põldmaa et al.**

Põldmaa et al. (2000) reported an acremonium-like asexual morph from this genus.

***Sporoschisma* Berk. & Broome**

Réblová et al. (2016a) proposed to adopt this older, asexually typified name rather than *Melanochaeta* E. Müll. et al. 1969, the younger, sexually typified name.

***Sporoschismopsis* Hol-Jech. et al.**

Réblová et al. (2016a) proposed to adopt *Sporoschismopsis*, the older, asexually typified name rather than *Porosphaerellopsis* Samuels & E. Müll. 1982, the younger sexually typified name.

***Sporothrix* Hektoen et al.**

de Beer et al. (2016) proposed to reduce *Sporotrichopsis* Gueguen. and *Dolichoascus* Thibaut & Ansel. under *Sporothrix*

***Spumatoria* Masee & E.S. Salmon**

Giraldo et al. (2017) reported a sporothrix-like asexual morph from the culture.

***Stachybotrys* Corda**

Wang et al. (2015) showed that *Stachybotrys sensu stricto* comprises *Ornatisspora* K.D. Hyde et al. thus proposed to adopt the older, asexually typified name, *Stachybotrys* over the younger sexually typified name. Lombard et al. (2016) regarded *Ornatisspora* as a synonym of *Stachybotrys* and provided the description of the holomorph.

***Stagonosporopsis* Died.**

Aveskamp et al. (2010) and Chen et al. (2015) reported the holomorph of this genus and provided the description.

***Stamnaria* Fuckel**

Johnston et al. (2014) proposed to adopt *Stamnaria*, the older, sexually typified name over *Titaeospora* Bubák 1916, the younger, asexually typified name.

***Stanjehughesia* Subram.**

Réblová et al. (2016a) proposed to adopt the older, asexually typified name *Stanjehughesia* rather than *Umbinosphaeria* Réblová 1999, the younger, sexually typified name.

***Staurosphaeria* Rabenh.**

Wanasinghe et al. (2017a) showed that *Hazslinszkyomyces* Crous & R.K. Schumach. grouped in *Staurosphaeria sensu stricto*. Hence, Wanasinghe et al. (2017a) regarded that *Staurosphaeria* has *Hazslinszkyomyces* asexual morphs and latter was reduced under former.

***Stegonsporium* Corda**

This genus has a prosthecium-like sexual morph (Senanayake et al. 2017a, Hyde et al. 2020b).

***Stemphylium* Wallr.**

Wijayawardene et al. (2014a) proposed to adopt *Stemphylium* over *Pleospora*. This synonymy was accepted by Rossman et al. (2015b).

***Stictis* Pers.**

Ciferri (1957) introduced *Stictospora* Cif. to accommodate the conidial stage of *Stictis*.

***Stictophacidium* Rehm**

Kirk et al. (2008) reported ‘*Ebolia*, coelophoma-like’ asexual morph from this genus. However, Minter & Caine (1980) did not mention about the sexual morph of *Ebolia*, when they introduced it.

***Stigmatodiscus* Voglmayr & Jaklitsch**

Voglmayr et al. (2016) introduced this genus with a coelomycetous asexual morph. Hongsanan et al. (2020b) regarded *Asterodiscus* Voglmayr et al. as a synonym of this genus.

***Stilbospora* Pers.**

Rossman et al. (2015a) proposed to adopt the older, asexually typified name *Stilbospora* rather than *Prosthecium* Fresen. 1852, the younger, sexually typified name.

***Stomiopeltis* Theiss.**

Kirk et al. (2008) reported *Sirothyriella* Höhn. as the asexual morph of this genus, thus Index Fungorum (2021) listed *Sirothyriella* as a synonym of *Stomiopeltis*. *Akaropeltella* M.L. Fan 1972 is also regarded as a latter synonym of *Stomiopeltis*. Kirk et al. (2008) reported sporidesmium-like asexual morph from *Akaropeltella*.

***Streptotinia* Whetzel**

Johnston et al. (2014) proposed to adopt *Streptotinia*, the older, sexually typified name over *Streptobotrys* Hennebert 1973, the younger, asexually typified name.

***Striatibotrys* L. Lombard & Crous**

Lombard et al. (2016) introduced this genus with a hyphomycetous asexual morph.

***Striatosphaeria* Samuels & E. Müll.**

Réblová et al. (2020b) introduced *Striatosphaeria castanea* Réblová & J. Fourn. which produced hyphomycetous asexual morph from the culture.

***Strossmayeria* Schulzer**

Johnston et al. (2014) proposed to adopt *Strossmayeria*, the older, sexually typified name over *Pseudospiropes* M.B. Ellis 1971, the younger asexually typified name.

***Strigula* Fr.**

Hongsanan et al. (2020b) reported a coelomycetous asexual morph for this genus.

***Subbaromyces* Hesselt.**

This genus was reported with both the sexual and asexual morphs (Hesseltine 1953).

***Sulcatispora* Kaz.**

Tanaka & K. Hiray. This genus was introduced with a coelomycetous asexual morph and confirmed its familial placement in *Sulcatisporaceae* by Tanaka et al. (2015).

***Swinscowia* S.H. Jiang**

Hongsanan et al. (2020b) introduced this holomorphic lichenized genus with coelomycetous asexual morph.

***Symphyosirinia* E.A. Ellis**

Johnston et al. (2014) proposed to adopt this generic name over the younger, asexually typified name, *Symphyosirella* Seifert 2009.

***Sympoventuria* Crous & Seifert**

Crous et al. (2007b) introduced this genus with a sympodiella-like asexual morph.

***Syncarpella* Theiss. & Syd.**

Ramaley & Barr (1997) introduced *Syntholus* A.W. Ramaley & M.E. Barr 1997 as the asexual morph of *Syncarpella ribis* A.W. Ramaley & M.E. Barr. Hence, the younger, asexually typified generic name, *Syntholus* has been regarded as a synonym of *Syncarpella* (Index Fungorum 2021).

***Synfenestella* Jaklitsch & Voglmayr**

Jaklitsch & Voglmayr (2019) introduced this holomorphic genus with a coelomycetous asexual morph.

***Synnemaspora* X.L. Fan & J.D.P. Bezerra**

Fan et al. (2018) introduced this genus with two types of asexual morphs (coelomycetous and hyphomycetous). Both morphs have been reported from the host plant.

***Talaromyces* C.R. Benj.**

This genus was reported with penicillium-like asexual morph (Houbraken & Samson 2011, Yilmaz et al. 2014, Houbraken et al. 2020).

***Tamaricicola* Thambug. et al.**

Thambugala et al. (2017a) introduced this genus with a phoma-like coelomycetous asexual morph.

***Teichospora* Fuckel**

Jaklitsch et al. (2016) reported coelomycetous morph with 'brown unicellular (coniothyrium-like), rarely hyaline unicellular (apospheeria-like) or several celled brown conidia' from this genus.

***Tenuiappendicula* Senan. et al.**

Senanayake et al. (2017b) introduced this genus with a coelomycetous asexual morph.

Tenuitholiascus S.H. Jiang et al.

Jiang et al. (2020c) introduced this genus with a coelomycetous asexual morph.

Teracosphaeria Réblová & Seifert

Réblová & Seifert (2007) introduced this genus with a phialophora-like asexual morph.

Teratosphaeria Syd. & P. Syd.

Crous et al. (2009) confirmed that *Kirramyces* J. Walker et al. 1992 and *Colletogloeopsis* Crous & M.J. Wingf. 1997 are congeneric with *Teratosphaeria*. Hence, regarded the both asexual morphs as synonyms of *Teratosphaeria*. Moreover, *Teratosphaeria* was reported with batcheloromyces-like synasexual morphs.

Tetraploa Berk. & Broome (= *Tetraplosphaeria* Kaz. Tanaka & K. Hirayama)

Tanaka et al. (2009) introduced sexual morph of this genus as *Tetraplosphaeria*. Wijayawardene et al. (2014a) proposed to adopt older asexually typified name (i.e., *Tetraploa*) over *Tetraplosphaeria*.

Thailandiomyces Pinruan et al.

Pinruan et al. (2008) introduced this genus and stated that the type species of this genus, *T. bisetulosus* Pinruan et al. has *Craspedodidymum licualae* asexual morph.

Thaxteriellopsis Sivan.

Doilom et al. (2017) reported the asexual morph of *T. lignicola*.

Thermoascus Miehe

Houbraken & Samson (2011) mentioned that the asexual morph of this genus can be similar to *Paecilomyces*.

Thermothelomyces Y. Marín et al.

Marin-Felix et al. (2015) introduced this genus with a hyphomycetous asexual morph.

Thyridium Nitschke

Leuchtmann & Müller (1986) reported a coelomycetous asexual morph, or produce holoblastic sympodial conidia from hyphae.

Thyronectria Sacc.

Lombard et al. (2015) reported holomorph of this genus with a hyphomycetous asexual morph.

Tirisporella E.B.G. Jones et al.

Tirisporella beccariana (Ces.) E.B.G. Jones et al., the type species of *Tirisporella* has been reported with *Phialophora* cf. *olivaceae* asexual morph. (Suetrong et al. 2015).

Togniniella Réblová et al.

Réblová et al. (2004) introduced this genus with its hyphomycetous asexual morph *Phaeocrella*. Réblová et al. (2016a) proposed to adopt *Togniniella* over *Phaeocrella*.

Tolypocladium W. Gams

Quandt et al. (2014) proposed to adopt the older, sexually typified name, *Tolypocladium* over younger, asexually typified name *Chaunopycnis* W. Gams 1980.

Torpedospora Meyers

Réblová et al. (2016a) proposed to adopt *Torpedospora* rather than *Glomerulispora* Abdel-Wahab & Nagah. 2010, the younger, asexually typified name.

Towyspora Wanas. et al.

This genus was introduced by Li et al. (2016) with a coelomycetous asexual morph and phylogenetic analyses showed that it belongs to *Lentitheciaceae*.

Tremateia Kohlm. et al.

Kohlmeyer et al. (1995) introduced this genus with a phoma-like asexual morph.

Trematosphaeria Fuckel

Zalerion-like asexual morphs have been reported by Kirk et al. (2008) and Hyde et al. (2013) reported a hyphopodia-like structures from the cultures of this genus.

Tricharina Eckblad

Kirk et al. (2008) reported that *Ascorhizoctonia* Chin S. Yang & Korf 1985 as the asexual morph of *Tricharina*. Hence, Wijayawardene et al. (2020) regarded *Ascorhizoctonia* as a synonym of *Tricharina*.

Trichoderma Pers.

Rossman et al. (2013) proposed to adopt the older, asexually typified name, *Trichoderma* rather than *Hypocrea* Fr. 1825, the younger, asexually typified name.

Trichomerium Speg.

Kirk et al. (2008) stated that *Tripospermum* Speg. 1918 as the asexual morph. However, this link was not proved and *Tripospermum* was accepted as a genus in *Neodevriesiaceae* by Wijayawardene et al. (2020). Crous et al. (2020b) introduced *Trichomerium syzygii* Crous, a hyphomycetous taxon. Hence, *Trichomerium* is reported as a holomorphic genus.

Trichometasphaeria Munk

Kirk et al. (2008) reported that this genus has an ascochyta-like, coelomycetous asexual morph.

Trichophaea Boud.

Healy et al. (2016) adopted *Trichophaea*, the older, sexually typified name over *Dichobotrys* Hennebert, the younger, asexually typified name.

Trichosphaerella E. Bommer et al.

Samuels & Barr (1997) reported an acremonium-like asexual morph from this genus.

Triplosphaeria Kaz. Tanaka & K. Hiray.

Tanaka et al. (2009) introduced this genus with tetrapoa-like asexual morphs.

Triseptata Boonmee & Phook.

Boonmee et al. (2020) introduced this genus with a hyphomycetous asexual morph.

Tristratiperidium Daranag. et al.

Daranagama et al. (2016) introduced this genus with a hyphomycetous asexual morph.

Trypetheliopsis Asahina

Hongsanan et al. (2020b) reported conidiomata from this genus.

Tubakia B. Sutton

This genus was reported with diplacella-like sexual morphs (Sogonov et al. 2008, Senanayake et al. 2017a, Braun et al. 2018).

Tubeufia Penz. & Sacc.

Boonmee et al. (2014) provided the description for holomorph of this genus.

Tylophoron Nyl. ex Stizenb.

Tibell (1991) reported an asexual morph of *Tylophoron moderatum*.

Tympanis Tode

Johnston et al. (2014) proposed to adopt the older, sexually typified name *Tympanis* over the younger, asexually typified name, *Sirodothis* Clem. 1909 (= *Pleurophomella* Höhn. 1914).

Tyrannicordyceps Kepler & Spatafora

Kepler et al. (2012) introduced this genus with a verticillium-like asexual morph.

Uleoporthe Petr.

Senanayake et al. (2017b) reported a coelomycetous asexual morph from *U. orbiculata* (Syd. & P. Syd.) Petr., the type species of this genus based on Cannon (2001).

Uleothyrium Petr.

Hongsanan et al. (2014) treated *Septothyrella* Höhn., an asexually typified name as a synonym of this genus.

Unguiculariopsis Rehm 1909

Johnston et al. (2014) proposed to adopt the older, sexually typified name, *Unguiculariopsis* over *Deltosperma* W.Y. Zhuang 1988.

Uzbekistanica Wanas. et al.

Wanasinghe et al. (2018) introduced this holomorphic genus, which has a coelomycetous asexual morph.

Vacuiphoma Valenz.-Lopez et al.

Valenzuela-Lopez et al. (2017) introduced this genus to accommodate *Phoma bulgarica* Aveskamp et al., which was phylogenetically distinct from *Phoma sensu stricto* in their phylogenetic analyses.

Vagicola K.W.T. Chethana & K.D. Hyde

Jayasiri et al. (2015) reported an asexual morph from *V. chlamydospora* Jayasiri et al.

Valdensia Peyronel

Johnston et al. (2014) proposed to adopt *Valdensia*, the older, sexually typified name over *Valdensinia* Peyronel 1953 (= *Asterobolus* Redhead & P.W. Perrin 1972), the younger, asexually typified name.

Valetoniellopsis Samuels & M.E. Barr

Samuels & Barr (1997) reported an acremonium-like asexual morph from this genus.

Valsalnicola D.M. Walker & Rossman

Crous et al. (2012a) introduced this genus with a coelomycetous asexual morph.

Valsaria Ces. & De Not.

Jaklitsch et al. (2015) reported coelomycetous asexual morph from natural substrates. At the same time, Jaklitsch et al. (2015) reported hyphomycetous or coelomycetous asexual morphs from cultures.

Varicosporella Lechat & J. Fourn.

Lechat & Fournier (2015) introduced this genus with a fusarium-like asexual morph.

Verkleyomyces Y. Marín & Crous

This genus was introduced with a coelomycetous asexual morph and confirmed its placement in *Dermateaceae* (Marin-Felix et al. 2017).

Vibrissea Fr.

Johnston et al. (2014) proposed to adopt *Vibrissea*, the older sexually typified name over *Anavirga* B. Sutton 1975, the younger, asexually typified name.

Virgaria Nees

Réblová et al. (2016a) proposed to adopt *Virgaria*, the older, asexually typified name rather than *Ascovirgaria* J.D. Rogers & Y.-M. Ju 2002, the younger, sexually typified generic name.

Viridothelium Lücking et al.

Hongsanan et al. (2020b) reported that this genus occasionally shows a pycnidial asexual morph.

Vizella Sacc.

Hongsanan et al. (2020b) reported coelomycetous asexual morph of *Vizella oleariae* based on the holotype (Swart 1971).

Volutella Fr.

Luo & Zhuang (2012) introduced *Volutellonectria* J. Luo & W.Y. Zhuang with *Volutella* asexual morphs. Lombard et al. (2015) proposed to adopt *Volutella* over *Volutellonectria*.

Wallrothiella Sacc.

Crous et al. (2017) introduced *Wallrothiella gmelinae* Crous & M.J. Wingf., which represents an asexual taxon.

Westerdykella Stolk

Crous et al. (2017) introduced *Westerdykella centenaria* Crous, a hyphomycetous taxon which resided in *Westerdykella sensu stricto*.

Wuestneia Auersw. ex Fuckel

Hyde et al. (2020b) accepted this genus with ‘cylindrical asci with aseptate ascospores and ampuliform conidiogenous cells without conidiophores’.

Xanthonectria J. Fourn. & P.-A. Moreau

Lechat et al. (2016) introduced this genus with an acremonium-like asexual morph.

Xenocyliandrocladium Decock et al.

Schoch et al. (2000) introduced the genus *Xenocalonectria* Crous & C.L. Schoch 2000 as the sexual morph of *Xenocyliandrocladium*. Lombard et al. (2015) proposed to adopt the older, asexually typified name, *Xenocyliandrocladium* over the younger, sexually typified name, *Xenocalonectria*.

Xenodidymella Q. Chen & L. Cai

This genus was introduced with a coelomycetous asexual morph.

Xenodium Syd.

Rossman et al. (2016) proposed to adopt the sexually typified name *Xenodium*, rather than *Xenodiella* Syd. 1935. Both names have been published in the same publication.

Xerombrophila Baral

This genus was introduced by Baral et al. (2013) with a hyphomycetous asexual morph.

Xeromyces Fraser et al.

Pitt et al. (2013) mentioned that this genus produces *Frasierella* asexual morph.

Xylaria Hill ex Schrank

Réblová et al. (2016a) proposed to adopt *Xylaria*, the older, sexually typified generic name, rather than *Moelleroclavus* Henn. 1902, *Xylocoremium* J.D. Rogers 1984, *Arthroxyllaria* Seifert & W. gams 2002 or *Geniculisyneema* Okane & Nakagiri 2007.

Xylochrysis Réblová et al.

Réblová et al. (2014) introduced this genus with a hyphomycetous asexual morph.

Xylomelasma Réblová

Réblová (2006) introduced this genus and reported a hyphomycetous asexual morph.

Yunnanensis Karun. et al.

Karunarathna et al. (2017) introduced this holomorphic genus with a coelomycetous asexual morph and confirmed its placement in *Phaeosphaeriaceae*.

Yunnania H.Z. Kong

Woudenberg et al. (2017) showed that *Fuscoannellis* Sandoval-Denis et al. 2016 resides in *Yunnania sensu stricto* thus proposed to synonymize former generic name under latter generic name.

Zeloasperisporium R.F. Castañeda

Hongsanan et al. (2015b, 2020b) reported both sexual and asexual morph of this genus.

Zopfia Rabenh.

This genus was reported with a cladosporium-like asexual morph by Wijayawardene et al. (2012).

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